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Table 1. The Colorado Model Content Standards and Subcontent Areas

Reading		
Content Standards		
CS	Grades	
1	3-10	Reading Comprehension
4	4-10	Thinking Skills
5	4-10	Use of Literary Information
6	4-10	Literature
Subcontent Areas		
SA	Grades	
1	7-10	Fiction
2	3-10	Nonfiction
3	3-10	Vocabulary
4	7-10	Poetry
1/4	3-6	Fiction and Poetry
Writing		
Content Standards		
CS	Grades	
2	3-10	Write for a Variety of Purposes
3	3-10	Write Using Conventions
Subcontent Areas		
SA	Grades	
5	3-10	Paragraph Writing
6	4-10	Extended Writing
7	3-10	Grammar and Usage
8	3-10	Mechanics
Mathematics		
Content Standards		
CS	Grades	
1	3-6	Number Sense
2	4-10	Algebra, Patterns, and Functions
2/3	3	Algebra, Patterns, and Functions / Statistics and Probability
3	4-10	Statistics and Probability
4/5	3-10	Geometry and Measurement
6	3-6	Computational Techniques
1/6	7-10	Number Sense and Computational Techniques

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Table 1. The Colorado Model Content Standards and Subcontent Areas (Concluded)

Mathematics (Continued)		
Subcontent Areas		
SA	Grades	
1	4-6	Number and Operation Sense
1	7	Number Sense
1	8	Linear Pattern Representation
1	9	Multiple Representations of Linear/Nonlinear Functions
1	10	Multiple Representations of Functions
2	4-6	Patterns
2	7	Area and Perimeter Relationships
2	8-9	Proportional Thinking
2	10	Probability and Counting Techniques
3	4	Measurement
3	5	Data Displays
3	6 and 8	Geometry
Science		
Content Standards		
CS	Grades	
1/5	5, 8, and 10	Scientific Investigation and the Nature of Science
2	5, 8, and 10	Physical Science
3	5, 8, and 10	Life Science
4	5, 8, and 10	Earth and Space Science
Subcontent Areas		
SA	Grades	
1	5, 8, and 10	Experimental Design and Investigations
2	5, 8, and 10	Results and Data Analysis
3	8	Physics Concepts
4	10	Chemistry Concepts
5	8 and 10	Life Processes
6	8 and 10	Geology and Astronomy

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Table 2. Configuration of 2010 CSAP Assessments

Content Area	Grade	Maximum Possible Points	Total # of Items			Frequency of CR Items with the Given Number of Maximum Points			
			MC	CR	Total	1	2	3	4
Reading	3	52	32	8	40		4	4	0
Reading	4	91	56	14	70		7	7	0
Reading	5	91	56	14	70		7	7	0
Reading	6	91	56	14	70		8	5	1
Reading	7	91	56	14	70		9	3	0
Reading[*1]	8	90	55	14	69		7	7	1
Reading[*2]	9	93	54	14	68		3	11	0
Reading	10	95	56	14	70		3	11	0
Writing	3	56	35	9	44	6	0	0	3
Writing	4	69	40	10	50	6	0	0	3
Writing	5	68	40	10	50	6	0	0	3
Writing	6	69	40	10	50	6	0	0	3
Writing	7	69	40	10	50	6	0	0	3
Writing	8	69	40	10	50	6	0	0	3
Writing	9	69	40	10	50	6	0	0	3
Writing	10	69	40	10	50	6	0	0	3
Spanish Reading	3	52	32	8	40		4	4	
Spanish Reading	4	91	56	14	70		7	7	
Spanish Writing	3	56	35	18	53	15	3		
Spanish Writing	4	69	40	13	53	7	1		5
Mathematics	3	50	32	8	40		6	2	
Mathematics	4	96	54	15	69		6	6	3
Mathematics	5	96	54	15	69		6	6	3
Mathematics	6	87	45	15	60		6	6	3
Mathematics	7	87	45	15	60		6	6	3
Mathematics	8	87	45	15	60		6	6	3
Mathematics	9	87	45	15	60		6	6	3
Mathematics[*2]	10	85	43	15	58		6	6	3
Science	5	88	57	17	74	5	13		
Science	8	100	60	23	83	9	12	1	1
Science[*1]	10	99	59	23	82	8	14		1

*Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.

1. 1 MC item removed
2. 2 MC items removed

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Table 3. Configuration of 2010 CSAP Reading Assessments by Grade, Content Standard, Subcontent Area, and Item Type

			Content Standard								Subcontent Area									
			1		4		5		6		1		1/4		2		3		4	
Grade	Content Area	Item Type	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Reading	MC	32	32									13	13	9	9	10	10		
		CR	8	20									4	9	4	11				
4	Reading	MC	24	24	13	13	9	9	10	10			19	19	16	16	10	10		
		CR	5	15	2	5	4	9	3	8			7	19	3	7				
5	Reading	MC	20	20	12	12	15	15	9	9			23	23	8	8	10	10		
		CR	5	11	3	8	2	5	4	11			7	18	5	12				
6	Reading	MC	25	25	7	7	18	18	6	6			20	20	7	7	11	11		
		CR	2	6	5	13	1	2	6	14			9	23	4	10				
7	Reading	MC	15	15	14	14	15	15	12	12	5	5			10	10	11	11	15	15
		CR	6	16	3	6	2	5	3	8	4	9			6	13			2	8
8	Reading[*1]	MC	17	17	15	15	12	12	11	11	7	7			12	12	12	12	12	12
		CR	6	14	2	5	3	8	3	8	2	5			5	12			4	10
9	Reading[*2]	MC	14	14	13	13	18	18	9	9	9	9			9	9	10	10	9	9
		CR	6	16	3	8	1	3	4	12	5	13			6	17	0	0	2	6
10	Reading	MC	17	17	13	13	18	18	8	8	11	11			6	6	13	13	8	8
		CR	5	15	3	8	1	3	5	13	5	14			6	18	0	0	2	4
3	Spanish Reading	MC	32	32									13	13	7	7	12	12		
		CR	8	20									5	11	3	9				
4	Spanish Reading	MC	27	27	11	11	10	10	8	8			18	18	17	17	11	11		
		CR	4	10	3	7	3	8	4	10			8	20	3	7				

*Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.

1. Removed one MC item from calibration in CS1.G SA 3V
2. Removed one MC item from calibration in CS6.d SA 4P and one item in CS1.G SA 3V

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Table 4. Configuration of 2010 CSAP Writing Assessments by Grade, Content Standard, Subcontent Area, and Item Type

			Content Standard				Subcontent Area							
			2		3		5		6		7		8	
Grade	Content Area	Item Type	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Writing	MC	12	12	23	23	6	6			8	8	15	15
		CR	9	12	9	9	3	15			3	3	3	3
4	Writing	MC	15	15	25	25	8	8			14	14	11	11
		CR	6	21	7	8	3	12	4	11	3	3	3	3
5	Writing	MC	15	15	25	25	5	5			15	15	16	16
		CR	6	21	7	8	3	12	4	11	3	3	3	3
6	Writing	MC	15	15	25	25	6	6			19	19	13	13
		CR	6	21	7	8	3	12	4	11	3	3	3	3
7	Writing	MC	15	15	25	25	7	7			21	21	10	10
		CR	6	21	7	8	3	12	4	11	3	3	3	3
8	Writing	MC	15	15	25	25	10	10			16	16	14	14
		CR	6	21	7	8	3	12	4	11	3	3	3	3
9	Writing	MC	15	15	25	25	7	7			19	19	14	14
		CR	6	21	7	8	3	12	4	11	3	3	3	3
10	Writing	MC	15	15	25	25	8	8			19	19	10	10
		CR	6	21	7	8	3	12	4	11	2	2	4	4
3	Spanish Writing	MC	12	12	23	23					17	17	7	7
		CR	9	12	9	9	12	15			3	3	3	3
4	Spanish Writing	MC	13	13	27	27	6	6			15	15	12	12
		CR	6	21	7	8	3	12	4	11	4	4	2	2

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Table 5. Configuration of 2010 CSAP Mathematics Assessments by Grade, Content Standard, Subcontent Area, and Item Type

			Content Standard														Subcontent Area					
			1		1/6		2		2/3		3		4/5		6		1		2		3	
Grade	Content Area	Item Type	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Mathematics	MC	6	6					9	9			12	12	5	5						
		CR	2	4					2	4			2	5	2	5						
4	Mathematics	MC	10	10			6	6			9	9	17	17	12	12	11	11	5	5	4	4
		CR	4	10			3	8			2	5	4	12	2	7	6	17	3	8	2	7
5	Mathematics	MC	14	14			7	7			7	7	12	12	14	14	13	13	4	4	3	3
		CR	2	5			4	11			4	12	3	9	2	5	1	2	4	11	4	12
6	Mathematics	MC	11	11			6	6			7	7	12	12	9	9	9	9	5	5	5	5
		CR	2	7			4	12			3	9	4	10	2	4	3	9	4	12	3	8
7	Mathematics	MC			15	15	9	9			9	9	12	12			5	5	6	6		
		CR			4	11	3	8			3	9	5	14			3	9	5	14		
8	Mathematics	MC			11	11	11	11			9	9	14	14			7	7	8	8	1	1
		CR			4	11	4	11			3	8	4	12			4	11	2	7	3	9
9	Mathematics	MC			10	10	12	12			12	12	11	11			2	2	7	7		
		CR			3	7	5	14			3	9	4	12			5	15	4	11		
10	Mathematics*1	MC			10	10	12	12			10	10	11	11			5	5	6	6		
		CR			2	5	5	14			4	11	4	12			3	11	2	4		

*Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.
1. Removed one MC item from calibration in CS4/5 and one MC item from calibration in CS3- SA2

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Table 6. Configuration of 2010 CSAP Science Assessments by Grade, Content Standard, Subcontent Area, and Item Type

			Content Standard								Subcontent Area											
			1/5		2		3		4		1		2		3		4		5		6	
Grade	Content Area	Item Type	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
5	Science	MC	21	21	12	12	12	12	12	12	13	13	5	5								
		CR	9	15	3	6	3	5	3	5	3	4	5	9								
8	Science	MC	23	23	14	14	12	12	11	11	11	11	9	9	7	7			8	8	6	6
		CR	9	16	4	6	5	8	5	10	6	9	3	7	4	6			3	4	3	6
10	Science*[1]	MC	20	20	12	12	14	14	13	13	9	9	6	6			7	7	6	6	7	7
		CR	13	22	3	6	3	5	4	7	5	9	7	12					2	4	3	6

*Content area in which item was removed from calibration. Count shown in this table does not include removed items.
1. Removed one MC item from calibration in CS2 – SA4

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Table 7. Percentage of Items in Depth of Knowledge Levels

Tests	Grade	DOK Level 1 MC	DOK Level 1 CR	DOK Level 2 MC	DOK Level 2 CR	DOK Level 3 MC	DOK Level 3 CR	Number of Items in Test
Reading	3	27%	7%	52%	7%	0%	5%	40
	4	37%	4%	37%	8%	5%	7%	70
	5	27%	7%	45%	5%	7%	7%	70
	6	34%	2%	41%	4%	4%	12%	70
	7	30%	1%	35%	11%	14%	7%	70
	8[*1]	14%	0%	57%	14%	7%	5%	69
	9[*1]	28%	1%	44%	4%	5%	14%	69
	10	21%	0%	48%	4%	10%	15%	70
Writing	3	63%	13%	15%	0%	0%	6%	44
	4	64%	12%	16%	0%	0%	8%	50
	5	60%	12%	20%	0%	0%	8%	50
	6	54%	12%	26%	0%	0%	8%	50
	7	60%	12%	18%	0%	2%	8%	50
	8	54%	12%	26%	0%	0%	8%	50
	9	60%	12%	18%	0%	2%	8%	50
	10	56%	12%	22%	0%	2%	8%	50
Mathematics	3	30%	0%	45%	15%	5%	6%	40
	4	35%	0%	42%	12%	2%	10%	69
	5	29%	0%	49%	10%	0%	12%	69
	6	15%	2%	57%	17%	3%	7%	60
	7	20%	0%	48%	13%	7%	12%	60
	8	20%	0%	53%	8%	2%	17%	60
	9	13%	0%	53%	13%	8%	12%	60
	10	14%	0%	48%	17%	12%	9%	58
Science	5	39%	8%	37%	14%	1%	1%	74
	8	23%	10%	39%	13%	11%	5%	83
	10	29%	2%	43%	17%	0%	9%	82
Spanish Reading	3	0%	0%	80%	20%	0%	0%	40
	4	33%	1%	39%	17%	9%	1%	70
Spanish Writing	3	66%	17%	0%	17%	0%	0%	53
	4	64%	13%	11%	9%	0%	2%	53

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Table 8. Percentage of Score Points in Depth of Knowledge Levels

Tests	Grade	DOK Level 1 MC	DOK Level 1 CR	DOK Level 2 MC	DOK Level 2 CR	DOK Level 3 MC	DOK Level 3 CR	Total Number of Points in Test
Reading	3	21%	15%	40%	15%	0%	13%	52
	4	28%	7%	28%	15%	4%	15%	91
	5	20%	12%	35%	12%	5%	14%	91
	6	26%	5%	31%	6%	3%	21%	91
	7	23%	2%	27%	23%	10%	13%	91
	8	10%	0%	44%	27%	5%	10%	90
	9	21%	3%	32%	8%	4%	29%	94
	10	15%	0%	35%	8%	7%	32%	95
Writing	3	50%	10%	12%	0%	0%	26%	56
	4	46%	8%	11%	0%	0%	33%	69
	5	43%	8%	14%	0%	0%	33%	69
	6	39%	8%	18%	0%	0%	33%	69
	7	43%	8%	13%	0%	1%	33%	69
	8	39%	8%	18%	0%	0%	33%	69
	9	43%	8%	13%	0%	1%	33%	69
	10	40%	8%	15%	0%	1%	33%	69
Mathematics	3	24%	0%	36%	26%	4%	10%	50
	4	25%	0%	30%	22%	1%	22%	96
	5	21%	0%	35%	18%	0%	26%	96
	6	10%	2%	39%	30%	2%	16%	87
	7	14%	0%	33%	22%	5%	26%	87
	8	14%	0%	37%	13%	1%	36%	87
	9	9%	0%	37%	22%	6%	26%	87
	10	9%	0%	33%	29%	8%	20%	85
Science	5	26%	6%	36%	16%	2%	14%	88
	8	19%	7%	31%	11%	10%	22%	100
	10	14%	1%	43%	24%	2%	15%	99
Spanish Reading	3	0%	0%	62%	39%	0%	0%	52
	4	25%	2%	30%	34%	7%	2%	91
Spanish Writing	3	63%	16%	0%	21%	0%	0%	56
	4	49%	12%	9%	29%	0%	1%	69

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Table 9. Previously Administered Items Selected for 2010 Test Forms that were Flagged for DIF or Fit

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Mathematics	3	CR	20		2008	E	0
English	Mathematics	4	CR	40		2008	G	0
English	Mathematics	4	CR	65		2008	E	1
English	Mathematics	5	CR	20		2008	E	0
English	Mathematics	5	CR	27		2008	0	1
English	Mathematics	5	MC	32	yes	2008	0	1
English	Mathematics	5	CR	46		2008	E	0
English	Mathematics	5	CR	66		2008	0	1
English	Mathematics	6	MC	9		2008	0	1
English	Mathematics	6	CR	29		2008	0	1
English	Mathematics	6	CR	46		2008	0	1
English	Mathematics	7	MC	18		2008	0	1
English	Mathematics	7	CR	20		2008	0	1
English	Mathematics	7	CR	35		2008	0	1
English	Mathematics	7	CR	40		2008	0	1
English	Mathematics	8	MC	3		2008	0	1
English	Mathematics	8	CR	34		2008	0	1
English	Mathematics	8	CR	40		2008	0	1
English	Mathematics	8	MC	46		2008	0	1
English	Mathematics	8	CR	60		2008	0	1
English	Mathematics	9	CR	20		2008	0	1
English	Mathematics	9	CR	32		2008	G	0
English	Mathematics	9	CR	46		2008	0	1
English	Mathematics	9	MC	57		2008	0	1
English	Mathematics	10	MC	13		2008	E	1
English	Mathematics	10	CR	20		2008	E	0
English	Mathematics	10	CR	40		2008	E,G	0
English	Mathematics	10	CR	48		2008	G	0
English	Reading	3	CR	6		2008	0	1
English	Reading	3	CR	25		2008	G	0
English	Reading	3	CR	26		2008	0	1
English	Reading	4	CR	11		2008	G	0
English	Reading	4	CR	24		2008	E	0
English	Reading	5	CR	11		2008	G	0
English	Reading	6	CR	11		2008	G	0
English	Reading	6	MC	102		2008	G	0
English	Reading	7	CR	99		2008	E,G	0

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

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Table 9. Previously Administered Items Selected for 2010 Test Forms that were Flagged for DIF or Fit (Continued)

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Reading	8	MC	16	yes	2008	G	0
English	Reading	8	CR	28		2008	E,G	0
English	Reading	9	SR	6	yes	2008	G	0
English	Reading	9	CR	100		2008	E,G	0
English	Reading	10	CR	5		2008	G	0
English	Reading	10	CR	96		2005	E,G	0
English	Science	8	CR	24		2008	G	0
English	Science	8	CR	63		2008	0	1
English	Science	8	MC	68		2009	0	1
English	Science	10	CR	21		2008	G	0
English	Science	10	CR	22		2008	E	0
English	Science	10	CR	24		2008	E	0
English	Writing	4	MC	55		2008	G	0
English	Writing	5	MC	54		2008	E	0
English	Writing	5	SCR	64		2008	E	0
English	Writing	6	SCR	27		2008	0	1
English	Writing	6	SCR	77		2008	E,G	0
English	Writing	7	SCR	68		2008	E,G	0
English	Writing	9	SCR	25		2008	G	1
English	Writing	9	SCR	68		2008	G	0
English	Writing	9	MC	52		2008	E	0

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

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Table 9. Previously Administered Items Selected for 2010 Test Forms that were Flagged for DIF or Fit (Continued)

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
Spanish	Reading	3	CR	1		2007, 2008	0	1
Spanish	Reading	3	MC	7	yes	2004	0	1
Spanish	Reading	3	MC	14		2007	0	1
Spanish	Reading	3	MC	20	yes	2007	0	1
Spanish	Reading	3	MC	24	yes	2008	0	1
Spanish	Reading	3	CR	26		2002, 2003, 2006	0	1
Spanish	Reading	3	CR	32		2008	0	1
Spanish	Reading	3	CR	36		2008	0	1
Spanish	Reading	4	MC	15	yes	2005	0	1
Spanish	Reading	4	MC	19	yes	2008	0	1
Spanish	Reading	4	MC	21	yes	2008	0	1
Spanish	Reading	4	MC	23	yes	2004	0	1
Spanish	Reading	4	MC	26		2003, 2008	0	1
Spanish	Reading	4	MC	28	yes	2005, 2007	0	1
Spanish	Reading	4	MC	32		2008	0	1
Spanish	Reading	4	MC	38		2008	0	1
Spanish	Reading	4	MC	40		2008	0	1
Spanish	Reading	4	CR	42		2008	0	1
Spanish	Reading	4	CR	44		2004, 2008	0	1
Spanish	Reading	4	MC	46		2008	0	1
Spanish	Reading	4	MC	48		2004	0	1
Spanish	Reading	4	MC	92		2003, 2004	0	1
Spanish	Reading	4	MC	93	yes	2008	0	1
Spanish	Reading	4	MC	94		2003	0	1
Spanish	Reading	4	MC	95	yes	2008	0	1
Spanish	Reading	4	MC	102		2008	0	1
Spanish	Reading	4	MC	103		2008	0	1
Spanish	Reading	4	MC	107	yes	2005	0	1
Spanish	Reading	4	MC	110		2008	0	1
Spanish	Reading	4	MC	111		2008	0	1
Spanish	Reading	4	MC	113		2004	0	1
Spanish	Reading	4	MC	114		2008	0	1
Spanish	Writing	3	MC	6		2008	0	1
Spanish	Writing	3	CR	27A		2007	0	1
Spanish	Writing	3	MC	34		2004	0	1
Spanish	Writing	4	CR	2F		2008	0	1
Spanish	Writing	4	CR	3A		2005	0	1
Spanish	Writing	4	MC	52	yes	2005	0	1

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

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Table 9. Previously Administered Items Selected for 2010 Test Forms that were Flagged for DIF or Fit (Concluded)

Language	Content Area	Grade	Item Type	2009 Item	2009 Anchor	Year Flagged	DIF Flag*	Fit Flag*
Spanish	Writing	4	MC	55	yes	2005	0	1
Spanish	Writing	4	MC	57		2008	0	1
Spanish	Writing	4	MC	58		2008	0	1
Spanish	Writing	4	MC	60		2008	0	1
Spanish	Writing	4	MC	61		2005	0	1
Spanish	Writing	4	MC	65	yes	2005	G	0
Spanish	Writing	4	MC	71	yes	2004	0	1
Spanish	Writing	4	MC	74		2004, 2008	0	1
Spanish	Writing	4	MC	75		2008	0	1
Spanish	Writing	4	MC	76		2005, 2008	0	1
Spanish	Writing	4	MC	79		2004, 2008	0	1
Spanish	Writing	4	MC	83		2008	0	1
Spanish	Writing	4	MC	85		2004	0	1
Spanish	Writing	4	MC	87		2008	0	1
Spanish	Writing	4	MC	89		2008	0	1

* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

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Table 10. Lowest and Highest Obtainable Scale Scores for the CSAP Assessments

Grade	Content Area	LOSS	HOSS
3	Reading	150	795
4	Reading	180	940
5	Reading	220	955
6	Reading	260	970
7	Reading	300	980
8	Reading	330	990
9	Reading	350	995
10	Reading	370	999
3	Spanish Reading	300	740
4	Spanish Reading	300	790
3	Writing	150	680
4	Writing	190	730
5	Writing	220	780
6	Writing	230	840
7	Writing	240	890
8	Writing	250	910
9	Writing	260	930
10	Writing	270	950
3	Spanish Writing	250	750
4	Spanish Writing	300	790
3	Mathematics	150	700
4	Mathematics	180	780
5	Mathematics	220	800
6	Mathematics	240	830
7	Mathematics	280	860
8	Mathematics	310	890
9	Mathematics	340	920
10	Mathematics	370	950
5	Science	300	900
8	Science	300	900
10	Science	300	900

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Table 11. Rater Reliability Statistics – Mathematics

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
3	4	3128	2	1.14	1.15	0.89	0.89	0.93	91.46	8.12	99.58
3	9	3129	2	0.83	0.83	0.62	0.62	0.93	95.94	3.96	99.90
3	16	3120	2	0.83	0.83	0.85	0.85	0.85	82.20	17.42	99.62
3	20	3129	3	1.51	1.53	0.99	1.00	0.90	86.19	12.66	98.85
3	24	3121	2	0.70	0.70	0.73	0.73	0.93	95.32	4.61	99.93
3	26	3125	2	1.49	1.48	0.66	0.67	0.88	91.52	8.32	99.84
3	33	3125	2	1.57	1.57	0.63	0.63	0.93	96.48	3.52	100.00
3	40	3126	3	1.83	1.84	0.89	0.89	0.92	90.98	8.83	99.81
4	5	3097	2	1.48	1.48	0.74	0.74	0.93	95.57	4.33	99.90
4	11	3094	2	0.92	0.93	0.78	0.78	0.91	92.53	7.37	99.90
4	15	3106	3	2.29	2.29	0.78	0.79	0.85	85.22	14.55	99.77
4	18	3104	3	1.93	1.92	0.93	0.94	0.90	88.11	11.47	99.58
4	23	3100	4	1.98	1.98	1.19	1.19	0.94	93.81	5.94	99.75
4	28	3100	3	0.91	0.93	1.05	1.05	0.89	85.09	13.94	99.03
4	30	3078	2	1.54	1.55	0.71	0.71	0.82	87.56	12.18	99.74
4	33	3121	2	0.70	0.70	0.73	0.73	0.93	95.32	4.61	99.93
4	40	3104	3	1.02	1.02	1.12	1.15	0.84	74.00	22.36	96.36
4	46	3105	4	2.68	2.70	1.29	1.29	0.91	79.94	18.97	98.91
4	49	3106	2	1.49	1.49	0.62	0.62	0.82	87.22	12.78	100.00
4	55	3126	3	1.83	1.84	0.89	0.89	0.92	90.98	8.83	99.81
4	60	3125	2	1.57	1.57	0.63	0.63	0.93	96.48	3.52	100.00
4	65	3101	3	1.71	1.70	1.19	1.20	0.92	85.48	13.77	99.25
4	69	3103	4	2.53	2.54	1.29	1.28	0.95	91.49	7.93	99.42
5	5	2968	2	1.35	1.34	0.67	0.67	0.85	88.84	10.99	99.83
5	10	2959	3	2.06	2.06	0.89	0.89	0.77	76.57	21.33	97.90
5	17	2968	2	1.48	1.45	0.75	0.76	0.82	83.36	15.77	99.13
5	20	2965	3	1.08	1.09	1.11	1.11	0.85	75.45	22.33	97.78
5	23	3105	4	2.68	2.70	1.29	1.29	0.91	79.94	18.97	98.91
5	27	2967	2	1.01	1.01	0.88	0.88	0.92	90.62	9.04	99.66
5	33	2969	3	1.13	1.14	1.03	1.04	0.90	87.40	10.58	97.98
5	35	3078	2	1.54	1.55	0.71	0.71	0.82	87.56	12.18	99.74
5	39	2977	3	1.19	1.20	1.01	1.01	0.93	87.24	12.56	99.80
5	46	2973	4	2.35	2.34	1.18	1.18	0.86	70.30	27.65	97.95
5	49	2974	2	1.11	1.12	0.91	0.90	0.89	84.06	15.47	99.53
5	54	2969	3	2.08	2.09	1.05	1.06	0.88	83.63	13.98	97.61
5	60	2963	2	1.38	1.39	0.75	0.74	0.83	83.49	16.31	99.80
5	66	3101	3	1.71	1.70	1.19	1.20	0.92	85.48	13.77	99.25
5	69	2969	4	2.76	2.77	1.20	1.20	0.91	82.82	16.61	99.43

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Table 11. Rater Reliability Statistics – Mathematics (Continued)

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
6	4	2949	2	1.72	1.72	0.52	0.52	0.88	96.23	3.46	99.69
6	7	2959	3	2.06	2.06	0.89	0.89	0.77	76.57	21.33	97.90
6	13	2945	2	0.66	0.68	0.81	0.81	0.86	86.49	12.87	99.36
6	16	2910	3	1.40	1.40	1.27	1.27	0.90	85.32	13.93	99.25
6	20	2956	4	1.99	1.99	1.04	1.05	0.90	84.57	14.99	99.56
6	23	2951	2	1.14	1.15	0.95	0.95	0.95	94.71	4.91	99.62
6	29	2977	3	1.19	1.20	1.01	1.01	0.93	87.24	12.56	99.80
6	33	2953	2	1.29	1.29	0.81	0.81	0.82	84.21	13.55	97.76
6	37	2949	3	2.29	2.28	1.02	1.02	0.86	85.35	11.09	96.44
6	40	2951	4	1.29	1.30	1.04	1.05	0.83	78.96	18.03	96.99
6	43	2944	2	1.44	1.43	0.82	0.82	0.95	96.06	3.91	99.97
6	46	2948	2	1.19	1.19	0.84	0.85	0.94	94.74	5.20	99.94
6	49	2969	3	1.13	1.14	1.03	1.04	0.90	87.40	10.58	97.98
6	57	2940	3	1.02	1.02	0.82	0.82	0.83	83.90	15.76	99.66
6	60	2957	4	2.50	2.52	1.16	1.16	0.93	87.93	11.53	99.46
7	3	2945	2	0.66	0.68	0.81	0.81	0.86	86.49	12.87	99.36
7	7	2940	3	1.02	1.02	0.82	0.82	0.83	83.90	15.76	99.66
7	11	2857	2	1.15	1.14	0.87	0.87	0.76	79.20	18.24	97.44
7	14	2918	3	1.19	1.19	1.11	1.11	0.92	91.71	7.75	99.46
7	20	2893	4	1.23	1.24	1.24	1.24	0.83	81.45	16.68	98.13
7	25	2953	2	1.29	1.29	0.81	0.81	0.82	84.21	13.55	97.76
7	29	2914	3	1.14	1.16	0.88	0.88	0.77	75.52	23.72	99.24
7	33	2924	2	1.20	1.20	0.64	0.64	0.87	92.68	7.28	99.96
7	35	2926	3	1.99	2.00	0.88	0.89	0.88	90.43	9.19	99.62
7	40	2914	4	1.04	1.05	1.49	1.48	0.89	85.51	10.47	95.98
7	45	2922	2	0.64	0.64	0.76	0.77	0.89	91.55	8.15	99.70
7	49	2915	3	0.75	0.75	0.91	0.90	0.85	88.23	11.12	99.35
7	51	2899	2	0.55	0.54	0.82	0.82	0.84	89.12	9.15	98.27
7	55	2920	3	1.41	1.42	1.11	1.11	0.90	85.68	13.70	99.38
7	60	2897	4	2.08	2.09	1.36	1.36	0.84	80.28	14.68	94.96
8	4	2847	3	2.07	2.06	0.91	0.92	0.75	71.82	25.79	97.61
8	8	2857	2	1.15	1.14	0.87	0.87	0.76	79.20	18.24	97.44
8	13	2810	3	0.85	0.85	0.87	0.86	0.72	74.68	23.18	97.86
8	17	2743	2	0.40	0.40	0.77	0.77	0.79	94.96	2.56	97.52
8	20	2893	4	1.23	1.24	1.24	1.24	0.83	81.45	16.68	98.13
8	24	2832	2	0.99	0.99	0.68	0.67	0.85	91.35	8.55	99.90
8	26	2811	3	0.71	0.72	0.85	0.85	0.79	85.62	13.60	99.22
8	30	2817	2	0.46	0.48	0.66	0.67	0.79	89.34	9.77	99.11
8	34	2819	3	1.58	1.58	1.11	1.11	0.88	87.58	11.50	99.08
8	40	2842	4	2.37	2.36	0.91	0.92	0.83	87.25	12.32	99.57
8	44	2924	2	1.20	1.20	0.64	0.64	0.87	92.68	7.28	99.96
8	48	2836	3	1.85	1.84	0.94	0.94	0.89	91.29	8.46	99.75
8	51	2819	2	0.84	0.83	0.87	0.87	0.81	80.73	18.35	99.08
8	55	2820	3	1.16	1.15	0.99	0.99	0.72	65.96	30.53	96.49
8	60	2817	4	1.99	1.98	1.63	1.63	0.88	78.13	18.03	96.16

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Table 11. Rater Reliability Statistics – Mathematics (Concluded)

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
9	3	2983	2	0.92	0.93	0.85	0.84	0.85	87.85	11.72	99.57
9	8	2882	3	1.11	1.11	1.28	1.28	0.83	92.60	5.53	98.13
9	11	2819	2	0.84	0.83	0.87	0.87	0.81	80.73	18.35	99.08
9	14	2851	3	0.48	0.48	0.84	0.84	0.65	84.44	14.33	98.77
9	20	2971	4	1.98	2.00	1.31	1.31	0.85	82.35	16.94	99.29
9	23	2832	2	0.99	0.99	0.68	0.67	0.85	91.35	8.55	99.90
9	26	2811	3	0.71	0.72	0.85	0.85	0.79	85.62	13.60	99.22
9	32	2855	2	0.60	0.60	0.76	0.76	0.73	87.25	12.15	99.40
9	35	2971	3	1.44	1.44	1.15	1.15	0.81	71.85	26.94	98.79
9	40	2922	4	0.62	0.62	1.19	1.19	0.79	90.54	8.70	99.24
9	43	2794	2	0.34	0.33	0.56	0.56	0.66	94.68	5.25	99.93
9	46	2935	3	0.76	0.76	1.01	1.01	0.77	86.29	10.74	97.03
9	50	2949	2	0.87	0.88	0.73	0.73	0.85	95.48	4.38	99.86
9	54	2928	3	0.99	1.00	0.82	0.83	0.61	70.41	26.23	96.64
9	60	2928	4	1.19	1.18	1.02	1.01	0.67	73.48	23.07	96.55
10	4	2746	2	1.41	1.40	0.85	0.86	0.81	89.79	7.98	97.77
10	9	2757	3	1.08	1.08	1.05	1.05	0.87	96.55	3.12	99.67
10	14	2741	2	0.06	0.06	0.30	0.30	0.63	98.61	1.21	99.82
10	18	2735	3	0.54	0.54	0.75	0.74	0.73	90.74	8.97	99.71
10	20	2747	4	0.67	0.67	1.24	1.24	0.83	93.55	6.05	99.60
10	25	2983	2	0.92	0.93	0.85	0.84	0.85	87.85	11.72	99.57
10	28	2744	3	1.17	1.16	0.80	0.80	0.75	88.61	11.24	99.85
10	32	2728	2	0.67	0.69	0.59	0.59	0.67	86.30	13.29	99.59
10	36	2882	3	1.11	1.11	1.28	1.28	0.83	92.60	5.53	98.13
10	40	2713	4	1.30	1.34	1.44	1.44	0.78	72.39	24.54	96.93
10	45	2734	2	0.64	0.64	0.83	0.83	0.83	90.97	8.52	99.49
10	48	2733	3	1.70	1.71	1.27	1.27	0.86	89.05	10.18	99.23
10	52	2646	2	0.58	0.58	0.87	0.87	0.82	97.08	2.43	99.51
10	57	2935	3	0.76	0.76	1.01	1.01	0.77	86.29	10.74	97.03
10	60	2729	4	1.58	1.58	0.92	0.93	0.67	76.43	22.14	98.57

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Table 12. Rater Reliability Statistics – Reading

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
3	1	3029	3	1.19	1.20	1.06	1.05	0.81	74.04	22.85	96.89
3	6	3030	2	1.24	1.25	0.73	0.73	0.86	88.71	11.06	99.77
3	10	2991	2	0.82	0.83	0.59	0.60	0.67	81.51	18.19	99.70
3	14	2968	2	0.80	0.80	0.88	0.87	0.88	92.77	6.89	99.66
3	25	3031	3	1.30	1.29	1.03	1.03	0.86	79.91	19.27	99.18
3	26	3015	3	1.50	1.49	1.34	1.34	0.95	97.01	2.85	99.86
3	31	2993	2	0.57	0.56	0.64	0.63	0.58	73.13	25.49	98.62
3	35	3007	3	1.95	1.96	1.13	1.13	0.87	82.40	16.61	99.01
4	10	3057	2	1.22	1.23	0.74	0.74	0.57	64.21	32.22	96.43
4	11	3039	3	1.23	1.24	0.79	0.80	0.57	58.31	39.12	97.43
4	15	2930	2	0.77	0.79	0.62	0.63	0.49	64.86	34.28	99.14
4	20	3009	3	1.43	1.43	1.16	1.16	0.76	67.22	28.15	95.37
4	22	2982	3	1.19	1.20	0.85	0.84	0.66	72.13	25.96	98.09
4	24	3029	3	1.19	1.20	1.06	1.05	0.81	74.04	22.85	96.89
4	29	3030	2	1.24	1.25	0.73	0.73	0.86	88.71	11.06	99.77
4	32	3056	2	0.80	0.79	0.60	0.61	0.63	75.74	23.77	99.51
4	39	3053	3	1.26	1.26	0.84	0.84	0.64	66.21	30.58	96.79
4	44	3054	2	1.35	1.36	0.82	0.81	0.75	79.86	16.51	96.37
4	102	3066	2	1.66	1.67	0.64	0.64	0.82	89.10	10.25	99.35
4	103	3007	3	1.95	1.96	1.13	1.13	0.87	82.40	16.61	99.01
4	115	3029	2	1.33	1.32	0.83	0.83	0.90	94.97	4.87	99.84
4	116	3046	3	1.14	1.14	0.79	0.78	0.60	65.03	31.98	97.01
5	4	2978	2	0.71	0.71	0.80	0.80	0.83	84.25	14.51	98.76
5	6	2954	3	1.16	1.15	0.76	0.76	0.72	77.88	21.58	99.46
5	10	2987	3	1.23	1.24	1.09	1.09	0.88	81.27	17.63	98.90
5	11	2964	3	1.71	1.71	1.11	1.10	0.88	84.27	15.19	99.46
5	12	2966	3	1.29	1.29	0.88	0.88	0.75	71.95	27.21	99.16
5	23	2930	2	0.77	0.79	0.62	0.63	0.49	64.86	34.28	99.14
5	28	2981	2	0.71	0.70	0.62	0.64	0.49	64.83	33.49	98.32
5	35	2922	3	0.85	0.85	0.80	0.80	0.64	74.84	21.94	96.78
5	43	3053	3	1.26	1.26	0.84	0.84	0.64	66.21	30.58	96.79
5	48	3054	2	1.35	1.36	0.82	0.81	0.75	79.86	16.51	96.37
5	95	2969	2	1.36	1.37	0.89	0.88	0.91	92.82	6.47	99.29
5	96	2981	2	1.35	1.35	0.75	0.75	0.91	93.86	6.04	99.90
5	105	2969	2	1.47	1.46	0.76	0.76	0.88	91.61	7.88	99.49
5	106	2964	3	1.20	1.19	0.92	0.93	0.72	68.02	29.08	97.10

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Table 12. Rater Reliability Statistics – Reading (Continued)

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
6	4	2978	2	0.71	0.71	0.80	0.80	0.83	84.25	14.51	98.76
6	6	2954	3	1.16	1.15	0.76	0.76	0.72	77.88	21.58	99.46
6	11	2873	3	1.09	1.10	1.05	1.05	0.80	77.28	18.85	96.13
6	12	2885	3	2.18	2.18	1.12	1.12	0.89	83.36	15.64	99.00
6	18	2860	2	1.11	1.08	0.76	0.77	0.69	69.41	30.03	99.44
6	24	2806	2	1.18	1.17	0.84	0.83	0.62	67.41	28.38	95.79
6	29	2981	2	0.71	0.70	0.62	0.64	0.49	64.83	33.49	98.32
6	32	2875	3	0.61	0.61	0.91	0.89	0.71	75.77	19.14	94.91
6	36	2865	2	0.98	0.98	0.83	0.83	0.86	87.74	11.70	99.44
6	93	2884	3	1.48	1.50	1.01	1.03	0.67	65.14	26.05	91.19
6	94	2866	2	1.26	1.26	0.83	0.84	0.90	92.18	7.50	99.68
6	106	2867	4	1.57	1.56	1.11	1.11	0.75	67.03	28.51	95.54
6	110	2845	2	0.72	0.73	0.74	0.75	0.69	73.18	25.84	99.02
6	111	2857	2	0.76	0.75	0.61	0.62	0.45	61.90	37.04	98.94
7	4	2895	3	2.07	2.05	1.05	1.06	0.82	76.31	21.99	98.30
7	5	2915	2	1.52	1.51	0.67	0.68	0.62	73.71	23.71	97.42
7	6	2896	3	0.94	0.93	0.82	0.80	0.74	76.86	22.03	98.89
7	11	2866	2	1.47	1.46	0.75	0.75	0.61	71.05	25.14	96.19
7	12	2886	2	1.05	1.06	0.69	0.70	0.60	68.46	29.98	98.44
7	13	2881	2	1.46	1.47	0.80	0.79	0.82	88.30	9.72	98.02
7	25	2860	4	1.36	1.39	0.91	0.91	0.64	68.57	27.55	96.12
7	34	2803	2	0.77	0.76	0.74	0.74	0.64	70.32	28.36	98.68
7	37	2789	2	1.06	1.04	0.59	0.59	0.52	70.36	29.17	99.53
7	40	2886	2	0.86	0.87	0.72	0.73	0.68	74.39	24.18	98.57
7	90	2892	3	1.02	1.02	1.15	1.15	0.75	73.17	18.71	91.88
7	99	2867	4	1.57	1.56	1.11	1.11	0.75	67.03	28.51	95.54
7	111	2845	2	0.72	0.73	0.74	0.75	0.69	73.18	25.84	99.02
7	112	2857	2	0.76	0.75	0.61	0.62	0.45	61.90	37.04	98.94
8	6	2852	2	0.92	0.94	0.78	0.78	0.56	60.82	34.86	95.68
8	13	2849	3	1.51	1.50	0.83	0.83	0.65	67.94	28.97	96.91
8	14	2856	2	1.77	1.76	0.52	0.52	0.69	87.50	12.05	99.55
8	22	2856	2	1.14	1.15	0.70	0.69	0.64	70.37	28.65	99.02
8	24	2802	3	0.78	0.78	0.80	0.81	0.62	71.51	26.13	97.64
8	28	2817	3	1.99	1.98	1.00	1.00	0.79	79.02	19.91	98.93
8	30	2738	2	1.09	1.09	0.95	0.94	0.83	89.71	9.70	99.41
8	38	2803	2	0.77	0.76	0.74	0.74	0.64	70.32	28.36	98.68
8	40	2816	3	1.38	1.36	0.95	0.96	0.63	57.89	37.42	95.31
8	42	2789	2	1.06	1.04	0.59	0.59	0.52	70.36	29.17	99.53
8	47	2713	3	0.86	0.87	0.89	0.90	0.60	67.83	28.74	96.57
8	93	2892	3	1.02	1.02	1.15	1.15	0.75	73.17	18.71	91.88
8	104	2775	2	0.78	0.79	0.65	0.65	0.70	84.60	15.15	99.75
8	109	2800	3	2.05	2.05	1.08	1.08	0.77	75.69	21.38	97.07

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Table 12. Rater Reliability Statistics – Reading (Concluded)

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
9	4	2849	3	1.51	1.50	0.83	0.83	0.65	67.94	28.97	96.91
9	7	2856	2	1.77	1.76	0.52	0.52	0.69	87.50	12.05	99.55
9	19	2906	3	1.46	1.47	1.15	1.16	0.80	80.43	17.81	98.24
9	29	2713	3	0.86	0.87	0.89	0.90	0.60	67.83	28.74	96.57
9	42	2864	3	1.79	1.78	1.14	1.14	0.71	70.74	23.85	94.59
9	43	2876	3	1.88	1.87	0.78	0.80	0.59	69.36	28.48	97.84
9	90	2808	3	1.41	1.42	1.11	1.10	0.63	64.26	28.95	93.21
9	94	2861	3	1.82	1.81	0.91	0.92	0.62	65.98	30.84	96.82
9	98	2813	3	1.91	1.88	1.13	1.14	0.69	71.28	24.48	95.76
9	100	2802	3	1.39	1.41	0.93	0.93	0.56	55.76	39.59	95.35
9	103	2850	2	0.93	0.91	0.71	0.73	0.50	61.54	35.48	97.02
9	112	2778	3	1.38	1.41	0.89	0.90	0.54	56.49	39.18	95.67
9	115	2745	3	1.33	1.33	0.90	0.89	0.59	70.09	28.04	98.13
9	116	2741	2	1.07	1.07	0.73	0.72	0.51	61.88	36.40	98.28
10	5	2764	4	2.67	2.68	1.21	1.20	0.69	66.97	28.39	95.36
10	11	2759	2	1.42	1.42	0.66	0.65	0.50	65.98	32.39	98.37
10	28	2766	3	1.66	1.67	0.96	0.96	0.64	61.14	35.99	97.13
10	29	2706	3	1.33	1.33	0.94	0.94	0.57	56.29	40.10	96.39
10	31	2712	3	1.02	1.01	0.96	0.94	0.55	54.25	40.30	94.55
10	34	2598	3	1.09	1.12	0.89	0.90	0.50	55.97	40.26	96.23
10	36	2700	2	0.95	0.94	0.58	0.57	0.51	75.68	23.35	99.03
10	44	2647	3	1.85	1.84	1.12	1.12	0.66	71.98	22.65	94.63
10	47	2513	3	1.95	1.97	1.06	1.04	0.60	73.90	22.70	96.60
10	51	2420	3	1.16	1.14	1.07	1.07	0.51	63.56	26.54	90.10
10	96	2802	3	1.39	1.41	0.93	0.93	0.56	55.76	39.59	95.35
10	101	2850	2	0.93	0.91	0.71	0.73	0.50	61.54	35.48	97.02
10	108	2670	3	1.55	1.57	1.06	1.06	0.60	57.26	36.92	94.18
10	112	2778	3	1.38	1.41	0.89	0.90	0.54	56.49	39.18	95.67

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Table 13. Rater Reliability Statistics – Writing

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	1A	3052	1	0.78	0.78	0.41	0.41	0.94	98.20	1.80	100.00
3	1B	3052	1	0.61	0.61	0.49	0.49	0.94	97.58	2.42	100.00
3	1C	3053	1	0.62	0.62	0.49	0.49	0.94	97.64	2.36	100.00
3	1D	3051	1	0.65	0.65	0.48	0.48	0.95	98.10	1.90	100.00
3	1E	3052	1	0.90	0.90	0.30	0.30	0.87	97.94	2.06	100.00
3	1F	3051	1	0.38	0.38	0.48	0.48	0.96	98.56	1.44	100.00
3	13A	3049	2	1.02	1.02	0.22	0.21	0.34	93.50	6.50	100.00
3	13B	3049	1	0.98	0.98	0.14	0.14	0.61	98.62	1.38	100.00
3	13C	3049	1	0.80	0.79	0.40	0.41	0.56	86.09	13.91	100.00
3	13D	3049	1	0.92	0.92	0.28	0.28	0.48	92.16	7.84	100.00
3	30A	3046	2	1.07	1.07	0.31	0.30	0.38	88.17	11.79	99.96
3	30B	3046	1	0.98	0.98	0.16	0.15	0.48	97.67	2.33	100.00
3	30C	3046	1	0.75	0.75	0.43	0.43	0.50	81.44	18.56	100.00
3	30D	3046	1	0.88	0.88	0.33	0.33	0.44	88.17	11.83	100.00
3	39A	3043	2	1.06	1.06	0.28	0.28	0.32	88.49	11.47	99.96
3	39B	3043	1	0.99	0.99	0.10	0.10	0.50	99.01	0.99	100.00
3	39C	3043	1	0.74	0.75	0.44	0.44	0.56	83.46	16.54	100.00
3	39D	3043	1	0.89	0.88	0.31	0.32	0.41	88.17	11.83	100.00
4	1	3089	1	0.98	0.99	0.12	0.12	0.83	99.48	0.52	100.00
4	2A	3074	1	0.60	0.60	0.49	0.49	0.96	98.76	1.24	100.00
4	2B	3074	1	0.61	0.61	0.49	0.49	0.94	97.69	2.31	100.00
4	2C	3073	1	0.77	0.77	0.42	0.42	0.94	98.28	1.72	100.00
4	2D	3074	1	0.72	0.73	0.45	0.44	0.81	92.84	7.16	100.00
4	2E	3074	1	0.95	0.95	0.22	0.22	0.90	99.41	0.59	100.00
4	2F	3073	1	0.90	0.90	0.30	0.30	0.91	98.80	1.20	100.00
4	3A	3079	4	2.48	2.47	0.98	0.97	0.63	52.13	42.12	94.25
4	3B	3078	4	2.62	2.59	0.83	0.82	0.58	55.23	41.42	96.65
4	3C	3078	2	1.88	1.87	0.33	0.34	0.40	86.71	13.26	99.97
4	23	2976	4	2.40	2.41	0.83	0.83	0.59	63.23	35.43	98.66
4	73	3053	4	2.56	2.55	0.72	0.72	0.62	68.12	31.32	99.44
4	94	3008	4	2.40	2.41	0.76	0.78	0.59	65.80	33.00	98.80
5	1	3009	1	0.98	0.99	0.12	0.12	0.75	99.27	0.73	100.00
5	2A	3001	1	0.79	0.78	0.41	0.41	0.90	96.77	3.23	100.00
5	2B	3001	1	0.90	0.90	0.31	0.30	0.94	99.10	0.90	100.00
5	2C	3001	1	0.94	0.94	0.23	0.23	0.91	99.27	0.73	100.00
5	2D	3001	1	0.88	0.89	0.32	0.32	0.89	98.03	1.97	100.00
5	2E	3001	1	0.44	0.44	0.50	0.50	0.95	97.77	2.23	100.00
5	2F	3001	1	0.68	0.68	0.47	0.47	0.97	98.73	1.27	100.00
5	3A	2998	4	2.48	2.47	0.86	0.87	0.62	59.13	36.94	96.07
5	3B	2999	4	2.52	2.52	0.78	0.77	0.55	57.34	39.09	96.43
5	3C	2999	2	1.88	1.88	0.34	0.33	0.41	87.19	12.68	99.87
5	64	2979	4	2.81	2.79	0.69	0.70	0.59	67.43	31.80	99.23
5	94	2976	4	2.40	2.41	0.83	0.83	0.59	63.23	35.43	98.66
5	116	2979	4	2.65	2.63	0.77	0.75	0.65	67.01	32.31	99.32

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Table 13. Rater Reliability Statistics – Writing (Continued)

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
6	1	2914	1	0.99	0.99	0.11	0.12	0.85	99.59	0.41	100.00
6	2A	2897	1	0.72	0.72	0.45	0.45	0.93	97.58	2.42	100.00
6	2B	2898	1	0.60	0.60	0.49	0.49	0.96	98.72	1.28	100.00
6	2C	2898	1	0.76	0.76	0.43	0.43	0.94	98.31	1.69	100.00
6	2D	2897	1	0.72	0.71	0.45	0.45	0.95	98.45	1.55	100.00
6	2E	2898	1	0.41	0.41	0.49	0.49	0.94	97.76	2.24	100.00
6	2F	2897	1	0.83	0.83	0.37	0.37	0.93	98.62	1.38	100.00
6	3A	2900	4	2.58	2.58	0.72	0.69	0.58	63.62	35.21	98.83
6	3B	2900	4	2.53	2.53	0.71	0.69	0.54	61.48	36.97	98.45
6	3C	2900	2	1.90	1.91	0.31	0.29	0.46	90.31	9.66	99.97
6	27	2769	4	2.59	2.57	0.71	0.74	0.54	64.94	34.15	99.09
6	77	2874	4	2.76	2.74	0.73	0.74	0.61	65.76	33.37	99.13
6	92	2979	4	2.65	2.63	0.77	0.75	0.65	67.01	32.31	99.32
7	1	2937	1	0.99	0.99	0.11	0.11	0.90	99.76	0.24	100.00
7	2A	2923	1	0.92	0.91	0.28	0.28	0.90	98.80	1.20	100.00
7	2B	2923	1	0.87	0.87	0.33	0.33	0.82	96.41	3.59	100.00
7	2C	2923	1	0.43	0.43	0.49	0.49	0.92	96.54	3.46	100.00
7	2D	2923	1	0.20	0.20	0.40	0.40	0.90	97.33	2.67	100.00
7	2E	2923	1	0.91	0.91	0.28	0.28	0.82	97.37	2.63	100.00
7	2F	2923	1	0.44	0.44	0.50	0.50	0.94	97.43	2.57	100.00
7	3A	2923	4	2.78	2.77	0.75	0.76	0.55	58.95	38.59	97.54
7	3B	2923	4	2.74	2.72	0.74	0.73	0.54	58.84	38.83	97.67
7	3C	2923	2	1.92	1.92	0.28	0.27	0.43	91.31	8.62	99.93
7	47	2909	4	2.69	2.68	0.69	0.70	0.64	70.61	29.25	99.86
7	68	2898	4	2.49	2.49	0.64	0.64	0.61	74.47	25.29	99.76
7	89	2769	4	2.59	2.57	0.71	0.74	0.54	64.94	34.15	99.09
8	1	2901	1	0.99	0.98	0.12	0.12	0.97	99.90	0.10	100.00
8	2A	2881	1	0.79	0.79	0.41	0.41	0.86	95.73	4.27	100.00
8	2B	2881	1	0.82	0.82	0.38	0.39	0.89	97.33	2.67	100.00
8	2C	2881	1	0.72	0.72	0.45	0.45	0.96	99.20	0.80	100.00
8	2D	2880	1	0.76	0.76	0.43	0.43	0.91	97.39	2.61	100.00
8	2E	2880	1	0.66	0.65	0.48	0.48	0.92	97.22	2.78	100.00
8	2F	2881	1	0.61	0.61	0.49	0.49	0.92	96.70	3.30	100.00
8	3A	2880	4	2.93	2.93	0.83	0.82	0.62	60.97	36.57	97.54
8	3B	2880	4	2.94	2.93	0.80	0.79	0.61	59.30	39.14	98.44
8	3C	2880	2	1.95	1.94	0.23	0.24	0.43	93.53	6.43	99.96
8	21	2840	4	2.67	2.67	0.69	0.68	0.59	70.20	29.66	99.86
8	74	2898	4	2.49	2.49	0.64	0.64	0.61	74.47	25.29	99.76
8	92	2816	4	2.46	2.45	0.65	0.68	0.58	73.38	26.37	99.75

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Table 13. Rater Reliability Statistics – Writing (Concluded)

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
9	1	3031	1	0.97	0.97	0.16	0.16	0.94	99.67	0.33	100.00
9	2A	2976	1	0.81	0.82	0.39	0.39	0.80	95.29	4.71	100.00
9	2B	2975	1	0.62	0.62	0.49	0.48	0.91	97.51	2.49	100.00
9	2C	2975	1	0.52	0.52	0.50	0.50	0.87	95.12	4.88	100.00
9	2D	2975	1	0.23	0.24	0.42	0.43	0.86	96.53	3.47	100.00
9	2E	2975	1	0.66	0.67	0.47	0.47	0.93	98.52	1.48	100.00
9	2F	2975	1	0.54	0.54	0.50	0.50	0.92	97.71	2.29	100.00
9	3A	2975	4	2.89	2.87	0.87	0.88	0.62	59.91	37.91	97.82
9	3B	2975	4	2.82	2.80	0.85	0.85	0.60	58.16	39.52	97.68
9	3C	2977	2	1.93	1.93	0.26	0.27	0.44	92.27	7.67	99.94
9	25	2840	4	2.67	2.67	0.69	0.68	0.59	70.20	29.66	99.86
9	68	2933	4	2.59	2.57	0.68	0.70	0.57	70.06	29.63	99.69
9	88	2745	4	2.64	2.63	0.74	0.75	0.55	67.53	31.85	99.38
10	1	2907	1	0.96	0.96	0.21	0.21	0.94	99.52	0.48	100.00
10	2A	2821	1	0.89	0.89	0.31	0.31	0.82	98.69	1.31	100.00
10	2B	2822	1	0.77	0.76	0.42	0.42	0.83	96.07	3.93	100.00
10	2C	2824	1	0.48	0.49	0.50	0.50	0.91	98.34	1.66	100.00
10	2D	2824	1	0.83	0.82	0.38	0.38	0.86	98.12	1.88	100.00
10	2E	2822	1	0.16	0.17	0.37	0.37	0.80	96.80	3.20	100.00
10	2F	2824	1	0.85	0.85	0.36	0.36	0.86	98.58	1.42	100.00
10	3A	2814	4	2.75	2.77	0.90	0.89	0.57	57.10	39.27	96.37
10	3B	2814	4	2.78	2.79	0.85	0.84	0.55	57.71	39.02	96.73
10	3C	2814	2	1.93	1.93	0.27	0.27	0.43	91.71	8.08	99.79
10	72	2770	4	2.56	2.55	0.75	0.75	0.57	68.89	30.56	99.45
10	95	2713	4	2.49	2.48	0.73	0.74	0.56	77.47	22.27	99.74
10	116	2745	4	2.64	2.63	0.74	0.75	0.55	67.53	31.85	99.38

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Table 14. Rater Reliability Statistics – Science

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
5	8	2962	2.00	0.30	0.29	0.66	0.66	0.87	95.23	4.09	99.32
5	21	2987	1.00	0.74	0.73	0.44	0.44	0.72	89.35	10.65	100.00
5	22	2980	1.00	0.41	0.40	0.49	0.49	0.85	93.32	6.68	100.00
5	23	2976	2.00	1.11	1.09	0.74	0.74	0.86	88.77	10.86	99.63
5	24	2981	2.00	1.22	1.22	0.75	0.75	0.90	91.65	8.25	99.90
5	25	2979	1.00	0.65	0.65	0.48	0.48	0.76	89.62	10.38	100.00
5	29	2981	2.00	0.69	0.70	0.82	0.82	0.66	71.25	23.45	94.70
5	34	2968	2.00	0.84	0.84	0.78	0.78	0.82	82.14	17.59	99.73
5	37	2977	2.00	0.65	0.65	0.78	0.78	0.86	86.23	13.34	99.57
5	42	2981	1.00	0.51	0.51	0.50	0.50	0.88	94.83	5.17	100.00
5	46	2986	2.00	1.20	1.20	0.76	0.76	0.87	88.07	11.63	99.70
5	49	2970	2.00	0.76	0.75	0.58	0.57	0.70	82.72	17.18	99.90
5	55	2983	2.00	1.53	1.52	0.62	0.62	0.77	85.58	13.71	99.29
5	58	2984	1.00	0.51	0.51	0.50	0.50	0.58	79.42	20.58	100.00
5	62	2981	2.00	1.15	1.12	0.58	0.57	0.66	79.00	20.93	99.93
5	66	2968	2.00	0.70	0.72	0.68	0.68	0.79	87.46	11.29	98.75
5	71	2974	2.00	0.93	0.95	0.68	0.67	0.74	79.50	20.26	99.76
5	75	2970	2.00	1.50	1.50	0.67	0.66	0.90	94.57	5.39	99.96
8	4	2863	1.00	0.32	0.31	0.47	0.46	0.75	90.08	9.92	100.00
8	11	2852	1.00	0.34	0.35	0.47	0.48	0.70	87.88	12.12	100.00
8	14	2874	1.00	0.56	0.57	0.50	0.50	0.83	92.86	7.14	100.00
8	20	2877	1.00	0.47	0.46	0.50	0.50	0.69	85.08	14.92	100.00
8	21	2879	1.00	0.65	0.64	0.48	0.48	0.47	76.00	24.00	100.00
8	22	2860	2.00	1.15	1.16	0.82	0.81	0.83	85.61	13.41	99.02
8	23	2859	1.00	0.66	0.66	0.47	0.47	0.57	81.49	18.51	100.00
8	24	2862	4.00	2.01	2.03	1.48	1.48	0.79	64.14	26.70	90.84
8	25	2832	2.00	1.26	1.25	0.81	0.81	0.77	80.95	17.84	98.79
8	26	2875	2.00	1.37	1.37	0.77	0.77	0.89	91.58	8.21	99.79
8	33	2852	2.00	0.54	0.54	0.54	0.55	0.76	91.37	8.56	99.93
8	37	2869	3.00	1.93	1.95	1.01	1.00	0.83	80.82	18.69	99.51
8	43	2813	2.00	0.49	0.50	0.57	0.57	0.61	79.20	20.69	99.89
8	47	2872	1.00	0.08	0.08	0.27	0.28	0.80	98.12	1.88	100.00
8	50	2840	2.00	0.81	0.82	0.68	0.68	0.74	83.72	15.86	99.58
8	58	2639	1.00	0.20	0.20	0.40	0.40	0.75	99.08	0.92	100.00
8	63	2836	2.00	0.56	0.56	0.75	0.75	0.73	82.46	15.38	97.84
8	66	2815	1.00	0.45	0.46	0.50	0.50	0.78	91.56	8.44	100.00
8	70	2877	2.00	0.84	0.83	0.79	0.79	0.82	84.81	14.43	99.24
8	71	2787	2.00	0.65	0.64	0.74	0.74	0.70	79.27	20.04	99.31
8	73	2714	2.00	0.51	0.52	0.60	0.60	0.68	92.23	7.58	99.81
8	77	2856	2.00	1.14	1.13	0.77	0.77	0.80	83.77	15.74	99.51
8	82	2783	2.00	0.73	0.73	0.65	0.64	0.69	83.72	16.13	99.85

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Table 14. Rater Reliability Statistics – Science (Concluded)

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
10	6	2777	2.00	0.64	0.65	0.72	0.73	0.67	76.30	22.80	99.10
10	21	2768	4.00	2.13	2.12	1.37	1.37	0.77	75.40	20.51	95.91
10	22	2729	2.00	0.89	0.88	0.86	0.86	0.82	92.21	7.50	99.71
10	23	2719	1.00	0.51	0.51	0.50	0.50	0.79	94.02	5.98	100.00
10	24	2689	3.00	2.01	2.00	1.04	1.04	0.65	71.64	24.65	96.29
10	25	2728	1.00	0.33	0.34	0.47	0.47	0.60	84.52	15.48	100.00
10	26	2701	1.00	0.52	0.52	0.50	0.50	0.57	81.28	18.72	100.00
10	27	2701	1.00	0.46	0.45	0.50	0.50	0.67	87.46	12.54	100.00
10	29	2769	1.00	0.65	0.64	0.48	0.48	0.67	87.03	12.97	100.00
10	34	2722	2.00	0.09	0.09	0.29	0.29	0.43	97.37	2.59	99.96
10	36	2726	2.00	1.23	1.26	0.75	0.76	0.69	80.04	19.07	99.11
10	38	2711	1.00	0.40	0.41	0.49	0.49	0.74	91.84	8.16	100.00
10	41	2660	2.00	0.29	0.29	0.48	0.48	0.54	86.02	13.75	99.77
10	44	2730	2.00	1.04	1.03	0.90	0.90	0.76	82.53	15.16	97.69
10	50	2702	2.00	0.47	0.48	0.75	0.75	0.73	89.31	9.54	98.85
10	53	2641	2.00	0.24	0.25	0.50	0.50	0.43	79.76	19.04	98.80
10	61	2662	2.00	0.56	0.58	0.68	0.68	0.67	86.58	13.12	99.70
10	65	2739	2.00	1.62	1.60	0.65	0.67	0.65	84.31	14.41	98.72
10	68	2745	2.00	0.78	0.79	0.77	0.77	0.78	88.31	11.43	99.74
10	73	2708	1.00	0.48	0.47	0.50	0.50	0.72	90.51	9.49	100.00
10	77	2750	2.00	1.16	1.16	0.80	0.80	0.85	97.31	2.58	99.89
10	81	2726	1.00	0.19	0.20	0.39	0.40	0.69	93.74	6.26	100.00
10	83	2730	1.00	0.56	0.55	0.50	0.50	0.70	88.70	11.30	100.00

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Table 15. Rater Reliability Statistics – Spanish Reading

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
3	1	236	3	1.66	1.65	1.27	1.27	0.96	96.61	3.39	100.00
3	2	238	3	1.84	1.86	1.32	1.32	0.97	97.05	2.53	99.58
3	8	235	2	1.17	1.17	0.82	0.82	0.88	89.36	10.64	100.00
3	17	229	3	1.96	1.94	0.97	0.96	0.74	73.36	26.20	99.56
3	25	235	2	1.43	1.40	0.71	0.71	0.77	84.26	14.47	98.73
3	26	237	2	0.67	0.72	0.77	0.79	0.83	86.86	11.86	98.72
3	32	236	3	1.15	1.15	0.97	0.97	0.93	96.61	3.39	100.00
3	36	236	2	1.15	1.20	0.79	0.80	0.86	86.02	13.98	100.00
4	13	22	3	1.27	1.41	0.98	0.96	0.83	81.82	13.64	95.46
4	14	22	2	0.73	0.59	0.55	0.50	0.42	68.18	31.82	100.00
4	29	22	3	2.05	2.14	1.17	1.21	0.97	90.91	9.09	100.00
4	31	22	2	0.68	0.68	0.84	0.84	0.86	81.82	18.18	100.00
4	33	21	3	1.10	1.05	1.00	0.92	0.62	61.90	33.33	95.23
4	34	20	3	1.55	1.55	1.23	1.23	0.72	70.00	30.00	100.00
4	42	22	2	0.86	0.82	0.89	0.85	0.91	86.36	13.64	100.00
4	44	21	2	1.05	1.19	0.92	0.87	0.82	85.71	14.29	100.00
4	45	21	3	1.33	1.14	0.97	1.06	0.71	61.90	38.10	100.00
4	97	22	2	1.00	1.14	0.82	0.56	0.48	50.00	50.00	100.00
4	98	21	3	0.86	0.90	0.65	0.70	0.55	66.67	33.33	100.00
4	100	21	2	0.95	0.81	0.74	0.68	0.75	85.71	14.29	100.00
4	108	22	2	1.45	1.55	0.80	0.80	0.93	90.91	9.09	100.00
4	116	21	3	1.76	1.81	1.00	0.93	0.81	95.24	4.76	100.00

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Table 16. Rater Reliability Statistics – Spanish Writing

				Mean		SD			Agreement		
Grade	Item	N	Max Score	Rater 1	Rater 2	Rater 1	Rater 2	Weighted Kappa	Exact	Adjacent	Exact + Adjacent
3	4A	237	1	0.76	0.76	0.43	0.43	0.93	97.89	2.11	100.00
3	4B	237	1	0.26	0.23	0.44	0.42	0.81	93.25	6.75	100.00
3	4C	237	1	0.61	0.60	0.49	0.49	0.94	97.47	2.53	100.00
3	4D	237	1	0.57	0.57	0.50	0.50	0.95	97.89	2.11	100.00
3	4E	237	1	0.51	0.52	0.50	0.50	0.87	93.67	6.33	100.00
3	4F	237	1	0.71	0.75	0.45	0.43	0.83	93.67	6.33	100.00
3	16A	238	2	1.16	1.10	0.67	0.65	0.62	71.85	26.47	98.32
3	16B	238	1	0.71	0.72	0.45	0.45	0.44	77.31	22.69	100.00
3	16C	238	1	0.70	0.68	0.46	0.47	0.54	80.25	19.75	100.00
3	16D	238	1	0.83	0.82	0.38	0.39	0.65	89.92	10.08	100.00
3	27A	238	2	1.16	1.15	0.71	0.76	0.73	74.79	23.95	98.74
3	27B	238	1	0.70	0.67	0.46	0.47	0.65	84.87	15.13	100.00
3	27C	238	1	0.72	0.66	0.45	0.47	0.74	88.66	11.34	100.00
3	27D	238	1	0.81	0.78	0.39	0.42	0.79	93.28	6.72	100.00
3	39A	237	2	1.26	1.26	0.69	0.69	0.62	66.24	32.91	99.15
3	39B	237	1	0.72	0.72	0.45	0.45	0.49	79.32	20.68	100.00
3	39C	237	1	0.68	0.65	0.47	0.48	0.77	90.30	9.70	100.00
3	39D	237	1	0.87	0.87	0.34	0.34	0.77	94.94	5.06	100.00
4	1	22	1	0.95	0.91	0.21	0.29	0.65	95.45	4.55	100.00
4	2A	22	1	0.91	0.86	0.29	0.35	0.78	95.45	4.55	100.00
4	2B	22	1	0.73	0.64	0.46	0.49	0.79	90.91	9.09	100.00
4	2C	22	1	0.73	0.73	0.46	0.46	1.00	100.00	0.00	100.00
4	2D	22	1	0.68	0.73	0.48	0.46	0.89	95.45	4.55	100.00
4	2E	22	1	0.41	0.50	0.50	0.51	0.64	81.82	18.18	100.00
4	2F	22	1	0.18	0.18	0.39	0.39	1.00	100.00	0.00	100.00
4	3A	22	4	1.86	1.77	1.13	1.11	0.96	90.91	9.09	100.00
4	3B	22	4	1.95	2.14	0.72	0.64	0.80	81.82	18.18	100.00
4	3C	22	2	1.55	1.73	0.51	0.55	0.36	63.64	36.36	100.00
4	25	22	4	1.68	1.82	1.21	1.33	0.78	45.45	50.00	95.45
4	63	22	4	1.73	1.77	0.98	0.92	0.82	68.18	31.82	100.00
4	90	22	4	2.27	2.23	1.03	0.92	0.78	59.09	40.91	100.00

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Table 17. Rater Severity/Leniency Study Results

Content Area	Grade	2008 Item Number	2010 Item Number	Valid N	Mean 2008	Mean 2010	Mean Difference	STD 2008	STD 2010	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Wtd Kappa
Mathematics	3	33	33	1000	1.59	1.58	0.01	0.62	0.63	2.60	97.40	0.00	0.97	0.98	0.97
Mathematics	3	20	20	1001	1.50	1.54	-0.04	1.01	1.01	8.69	90.91	0.40	0.95	0.97	0.95
Mathematics	4	46	46	996	2.70	2.69	0.01	1.22	1.25	18.47	80.72	0.80	0.93	0.96	0.93
Mathematics	4	55	55	1000	2.12	2.10	0.02	0.92	0.90	11.10	88.50	0.40	0.92	0.96	0.92
Mathematics	4	5	5	992	1.40	1.40	0.00	0.78	0.78	2.62	97.18	0.20	0.97	0.99	0.97
Mathematics	5	14	10	993	2.06	1.94	0.12	0.84	0.86	25.88	72.00	2.11	0.77	0.88	0.76
Mathematics	5	57	60	995	1.30	1.28	0.02	0.78	0.76	16.28	83.62	0.10	0.86	0.93	0.86
Mathematics	5	23	23	1001	3.14	3.09	0.05	1.05	1.10	15.58	83.72	0.70	0.92	0.96	0.92
Mathematics	6	4	4	998	1.73	1.71	0.02	0.48	0.53	2.51	96.89	0.60	0.91	0.95	0.90
Mathematics	6	16	16	979	1.52	1.57	-0.05	1.26	1.26	14.71	84.78	0.51	0.95	0.97	0.95
Mathematics	6	20	20	1000	1.96	2.00	-0.04	1.10	1.09	17.60	82.10	0.30	0.92	0.96	0.92
Mathematics	7	48	49	994	0.83	0.84	-0.01	0.94	0.95	11.47	88.13	0.40	0.93	0.96	0.93
Mathematics	7	20	20	980	1.33	1.26	0.07	1.25	1.24	18.78	79.80	1.43	0.92	0.96	0.92
Mathematics	7	33	33	997	1.28	1.19	0.09	0.63	0.62	13.24	86.76	0.00	0.84	0.92	0.83
Mathematics	8	40	40	992	2.48	2.38	0.10	0.93	0.93	20.06	79.23	0.71	0.87	0.93	0.87
Mathematics	8	7	17	963	0.55	0.54	0.01	0.85	0.85	5.09	93.56	1.35	0.93	0.96	0.93
Mathematics	8	46	48	987	1.87	1.87	0.00	0.95	0.96	4.56	95.04	0.41	0.96	0.98	0.96
Mathematics	9	26	26	984	1.02	0.94	0.08	0.88	0.89	17.28	82.11	0.61	0.87	0.94	0.87
Mathematics	9	60	60	976	1.57	1.47	0.10	1.06	1.11	29.51	65.47	5.02	0.79	0.89	0.79
Mathematics	9	12	11	993	1.04	1.16	-0.12	0.76	0.84	30.11	68.88	1.01	0.75	0.87	0.74
Mathematics	10	4	4	977	1.59	1.57	0.02	0.73	0.74	7.98	90.69	1.33	0.88	0.94	0.88
Mathematics	10	20	20	973	0.84	0.81	0.03	1.35	1.33	11.20	87.98	0.82	0.96	0.98	0.96
Mathematics	10	28	28	960	1.09	1.23	-0.14	0.74	0.78	14.90	84.79	0.31	0.88	0.93	0.86

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Table 17. Rater Severity/Leniency Study Results (Continued)

Content Area	Grade	2008 Item Number	2010 Item Number	Valid N	Mean 2008	Mean 2010	Mean Difference	STD 2008	STD 2010	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Wtd Kappa
Reading	3	35	35	980	1.96	1.99	-0.03	1.11	1.10	19.08	79.90	1.02	0.91	0.95	0.91
Reading	3	1	1	994	1.47	1.38	0.09	1.08	1.00	32.19	59.46	8.35	0.69	0.84	0.69
Reading	4	104	103	997	2.54	2.46	0.08	0.81	0.87	16.75	81.85	1.40	0.85	0.92	0.84
Reading	4	25	24	992	1.45	1.52	-0.07	1.12	0.95	36.79	58.77	4.44	0.75	0.87	0.74
Reading	5	11	11	996	1.52	1.78	-0.26	1.16	1.12	24.90	70.48	4.62	0.86	0.92	0.83
Reading	6	94	94	978	1.11	1.11	0.00	0.85	0.85	9.71	89.98	0.31	0.92	0.96	0.92
Reading	6	106	106	978	1.41	1.56	-0.15	1.12	1.16	42.54	47.96	9.51	0.68	0.84	0.67
Reading	7	12	12	980	1.18	1.01	0.17	0.69	0.68	30.71	68.37	0.92	0.66	0.82	0.64
Reading	7	99	99	977	1.61	1.73	-0.12	1.12	1.10	36.85	55.17	7.98	0.71	0.85	0.71
Reading	8	108	109	969	2.31	2.14	0.17	0.98	1.02	22.91	74.30	2.79	0.83	0.91	0.82
Reading	9	102	103	948	0.88	0.99	-0.11	0.69	0.71	35.23	62.45	2.32	0.56	0.77	0.55
Reading	10	5	5	973	2.64	2.80	-0.16	1.14	1.17	38.95	49.64	11.41	0.68	0.83	0.67
Writing	3	30A	30A	986	1.10	1.17	-0.07	0.37	0.40	17.44	82.45	0.10	0.41	0.70	0.40
Writing	3	30B	30B	986	0.97	0.99	-0.02	0.17	0.11	2.64	97.36	0.00	0.41	0.68	0.37
Writing	3	30C	30C	986	0.81	0.80	0.01	0.40	0.40	14.60	85.40	0.00	0.53	0.77	0.53
Writing	3	30D	30D	986	0.81	0.86	-0.05	0.40	0.35	14.81	85.19	0.00	0.48	0.74	0.47
Writing	5	94	94	981	2.30	2.53	-0.23	0.73	0.73	34.05	65.04	0.92	0.70	0.83	0.66
Writing	7	68	68	987	2.38	2.40	-0.02	0.69	0.63	22.19	77.20	0.61	0.72	0.86	0.72
Writing	8	73	74	994	2.51	2.60	-0.09	0.67	0.67	31.39	68.31	0.30	0.64	0.82	0.64
Writing	9	69	68	978	2.46	2.46	0.00	0.69	0.69	32.31	67.28	0.41	0.64	0.82	0.64
Writing	10	74	72	985	2.49	2.32	0.17	0.69	0.64	32.49	66.90	0.61	0.63	0.80	0.61

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Table 17. Rater Severity/Leniency Study Results (Concluded)

Content Area	Grade	2008 Item Number	2010 Item Number	Valid N	Mean 2008	Mean 2010	Mean Difference	STD 2008	STD 2010	% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Wtd Kappa
Science	5	25	25	976	0.56	0.70	-0.14	0.50	0.46	17.52	82.48	0.00	0.66	0.81	0.63
Science	5	55	37	995	0.58	0.56	0.02	0.75	0.74	14.37	85.03	0.60	0.85	0.92	0.85
Science	8	47	43	924	0.57	0.52	0.05	0.56	0.56	30.19	69.59	0.22	0.51	0.75	0.51
Science	8	24	24	970	2.37	2.27	0.10	1.43	1.45	28.35	64.43	7.22	0.85	0.93	0.85
Science	8	57	58	852	0.39	0.38	0.01	0.49	0.49	1.29	98.71	0.00	0.97	0.99	0.97
Science	10	41	29	916	0.63	0.61	0.02	0.48	0.49	12.55	87.45	0.00	0.73	0.87	0.73
Science	10	21	21	931	2.12	1.97	0.15	1.29	1.29	25.24	71.11	3.65	0.88	0.94	0.88
Science	10	24	24	849	2.21	2.00	0.21	0.97	1.02	27.33	70.08	2.59	0.83	0.90	0.81
Science	10	78	68	910	0.75	0.75	0.00	0.76	0.76	11.32	88.46	0.22	0.89	0.95	0.89

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Table 18. Tested Population Demographic Distribution – Mathematics

	Grade							
	3	4	5	6	7	8	9	10
Subgroup	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
No Disability	56561	55510	53886	53244	52483	52277	54148	51154
Disability	5483	5745	5976	5657	5351	4913	4990	4255
No IEP	56565	55510	53891	53243	52474	52277	54132	51151
IEP	5478	5741	5968	5654	5352	4908	4990	4253
No Accommodation	50949	50595	50131	51296	51214	51094	55259	52275
Accommodation	11044	10632	9702	7527	6556	6018	3782	3064
Am. Indian/AK Nat	716	696	684	712	690	709	694	685
Asian/Pac. Isl.	2439	2364	2248	2266	2239	2108	2248	2026
Black	3618	3708	3648	3629	3319	3431	3609	3334
Hispanic	18834	18599	17802	16975	16247	15679	15908	14255
White	36437	35891	35481	35321	35340	35262	36682	35117
Free Lunch Elig.	21703	21133	20106	19037	17755	16995	16048	13626
Reduced Lunch Elig.	5059	5243	5045	4933	4658	4544	4327	3619
Not FRL Elig.	35264	34857	34698	34908	35398	35630	38739	38160
Female	30553	30014	29327	28999	28297	28014	28741	27162
Male	31488	31244	30534	29903	29538	29173	30401	28252
Lang. Prof. NA	49831	49644	49173	48672	48196	48180	50365	47650
Lang. Prof. NEP	2984	2156	1228	934	785	674	924	784
Lang. Prof. LEP	7844	7066	5955	5102	4203	3553	3031	2345
Lang. Prof. FEP	1385	2391	3505	4195	4651	4782	4811	4628
Not Mig. or Immig.	60973	60352	59070	58124	57063	56415	58300	54652
Mig. or Immig.	1068	899	788	772	763	769	819	752

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Table 19. Tested Population Demographic Distribution – Reading

	Grade							
	3	4	5	6	7	8	9	10
Subgroup	N	N	N	N	N	N	N	N
No Disability	55515	55377	53834	53170	52425	52226	54072	50992
Disability	5368	5704	5954	5644	5340	4903	4978	4234
No IEP	55512	55378	53835	53166	52419	52223	54058	50990
IEP	5367	5702	5952	5643	5338	4901	4977	4231
No Accommodation	50567	49473	49736	50134	51354	51240	55644	52119
Accommodation	10275	11593	10046	8593	6340	5815	3311	3001
Am. Indian/AK	716	688	681	710	688	712	693	679
Asian/Pac. Isl.	2437	2355	2235	2263	2237	2102	2242	2028
Black	3600	3703	3654	3617	3319	3424	3606	3322
Hispanic	17630	18484	17784	16938	16224	15647	15885	14188
White	36500	35856	35435	35288	35297	35244	36626	35018
Free Lunch Elig.	20636	21021	20077	18983	17727	16950	16015	13525
Reduced Lunch Elig.	4969	5234	5027	4925	4650	4547	4313	3610
Not FRL Elig.	35239	34805	34670	34884	35365	35611	38698	38082
Female	30013	29938	29296	28954	28278	27991	28712	27114
Male	30869	31149	30494	29859	29486	29133	30341	28120
Lang. Prof. NA	49919	49604	49124	48611	48149	48137	50285	47506
Lang. Prof. NEP	2237	2036	1208	928	776	665	919	772
Lang. Prof. LEP	7342	7054	5949	5081	4193	3543	3028	2329
Lang. Prof. FEP	1383	2388	3507	4195	4647	4782	4813	4619
Not Mig. or Immig.	59908	60244	58999	58038	57000	56370	58223	54468
Mig. or Immig.	972	832	785	770	754	753	811	752

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Table 20. Tested Population Demographic Distribution – Writing

	Grade							
	3	4	5	6	7	8	9	10
Subgroup	N	N	N	N	N	N	N	N
No Disability	55392	55369	53780	53202	52438	52195	54102	50957
Disability	5378	5721	5944	5652	5334	4907	4990	4257
No IEP	55393	55370	53781	53198	52432	52192	54087	50955
IEP	5375	5719	5942	5651	5332	4905	4989	4254
No Accommodation	49913	48799	48801	50032	50734	50982	55159	51882
Accommodation	10803	12263	10910	8730	6961	6042	3768	3165
Am. Indian/AK	715	688	680	712	687	714	692	682
Asian/Pac. Isl.	2438	2355	2234	2263	2236	2094	2247	2021
Black	3616	3708	3650	3619	3320	3424	3608	3314
Hispanic	17614	18483	17767	16970	16232	15668	15900	14184
White	36387	35861	35394	35292	35297	35202	36647	35022
Free Lunch Elig.	20663	21031	20064	19023	17726	16977	16035	13531
Reduced Lunch Elig.	4963	5232	5027	4923	4646	4545	4321	3618
Not FRL Elig.	35125	34806	34619	34886	35377	35559	38711	38056
Female	29946	29936	29267	28974	28281	27996	28734	27098
Male	30824	31159	30459	29879	29490	29101	30361	28124
Lang. Prof. NA	49797	49609	49070	48628	48151	48094	50324	47502
Lang. Prof. NEP	2268	2043	1209	927	775	670	925	773
Lang. Prof. LEP	7326	7055	5941	5103	4197	3553	3025	2328
Lang. Prof. FEP	1379	2384	3504	4197	4649	4783	4813	4611
Not Mig. or Immig.	59816	60251	58935	58073	57002	56339	58263	54459
Mig. or Immig.	950	834	785	775	759	757	812	749

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Table 21. Tested Population Demographic Distribution – Science

	Grade		
	5	8	10
Subgroup	N	N	N
No Disability	54065	52551	51269
Disability	5977	4926	4282
No IEP	54073	52547	51267
IEP	5969	4925	4277
No Accommodation	51337	52465	52383
Accommodation	8669	4936	3043
Am. Indian/AK	686	716	687
Asian/Pac. Isl.	2246	2114	2035
Black	3647	3433	3343
Hispanic	17814	15676	14226
White	35650	35537	35265
Free Lunch Elig.	20113	17017	13588
Reduced Lunch Elig.	5048	4553	3618
Not FRL Elig.	34867	35884	38336
Female	29432	28166	27242
Male	30609	29307	28312
Lang. Prof. NA	49360	48488	47814
Lang. Prof. NEP	1224	665	782
Lang. Prof. LEP	5957	3549	2332
Lang. Prof. FEP	3502	4773	4619
Not Mig. or Immig.	59247	56711	54790
Mig. or Immig.	791	760	754

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Table 22. Tested Population Demographic Distribution – Spanish Reading and Writing

	Spanish Reading Grade		Spanish writing Grade	
	3	4	3	4
Subgroup	N	N	N	N
No Disability	1120	112	1122	112
Disability	90	1	89	1
No IEP	1120	112	1122	112
IEP	90	1	89	1
No Accommodation	922	71	907	68
Accommodation	288	42	304	45
Am. Indian/AK	1	1	1	1
Asian/Pac. Isl.				
Black	3		3	
Hispanic	1186	107	1186	107
White	20	5	20	5
Free Lunch Elig.	1021	82	1021	82
Reduced Lunch Elig.	83	7	83	7
Not FRL Elig.	106	24	106	24
Female	574	56	579	56
Male	636	57	632	57
Lang. Prof. NA	11	1	10	1
Lang. Prof. NEP	695	99	700	99
Lang. Prof. LEP	499	13	496	13
Lang. Prof. FEP	5		5	
Not Mig. or Immig.	1093	57	1096	57
Mig. or Immig.	117	56	115	56

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Table 23. Multiple-Choice Item Analyses, English Grade 03 Reading

Mean Item-Total Corr.: 0.44 Mean p-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
2	1	1	1	0.46	1.11	0.74	21	2	1	1	0.48	0.12	0.86
3	1	1	1	0.25	0.09	0.80	22	2	1	1	0.44	0.42	0.51
4	1	1	3	0.46	0.07	0.80	23	2	1	1	0.56	0.28	0.77
5	1	1	3	0.37	0.17	0.88	24	2	1	3	0.48	0.55	0.81
7	1	1	1	0.44	0.19	0.54	27	2	1	3	0.28	0.25	0.53
8	1	1	1	0.36	0.29	0.43	28	2	1	3	0.41	0.36	0.65
9	1	1	3	0.44	0.31	0.61	29	2	1	2	0.36	0.16	0.51
11	1	1	1	0.54	0.40	0.70	30	2	1	3	0.50	0.17	0.63
12	1	1	3	0.47	0.69	0.68	32	2	1	2	0.37	0.24	0.66
13	1	1	1	0.49	0.66	0.76	33	2	1	2	0.51	0.66	0.70
15	1	1	1	0.38	1.12	0.54	34	2	1	2	0.45	0.72	0.77
16	1	1	1	0.50	1.49	0.78	36	2	1	2	0.46	0.96	0.82
17	1	1	3	0.43	1.59	0.59	37	2	1	2	0.59	0.65	0.75
18	1	1	3	0.50	1.70	0.74	38	2	1	2	0.53	0.85	0.79
19	2	1	1	0.49	0.05	0.63	39	2	1	2	0.25	0.88	0.56
20	2	1	1	0.50	0.09	0.73	40	2	1	2	0.27	1.02	0.50

Table 24. Constructed-Response Item Analyses, English Grade 03 Reading

Mean Item-Total Corr.: 0.59 Mean p-Value: 0.46

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	1	1	0.59	31.99	28.94	22.76	15.64		0.67	0.40
6		1	1	1	0.52	16.22	41.00	42.07			0.71	0.63
10		1	1	1	0.56	27.18	60.41	10.62			1.79	0.41
14		1	1	1	0.60	48.11	19.50	29.86			2.53	0.40
25		2	1	2	0.59	28.34	25.75	31.42	13.91		0.57	0.43
26		2	1	2	0.62	40.29	4.71	18.03	36.03		0.94	0.50
31		2	1	2	0.50	49.71	40.59	7.65			2.05	0.28
35		2	1	2	0.70	16.94	15.32	23.27	43.15		1.32	0.64

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Table 25. Multiple-Choice Item Analyses, Spanish Grade 03 Reading

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.6

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
3	1	1	2	0.35	0.41	0.28	21	2	1	1	0.45	0.66	0.92
4	1	1	2	0.29	0.17	0.65	22	2	1	1	0.41	0.08	0.69
5	1	1	3	0.35	0.08	0.34	23	2	1	1	0.53	0.08	0.83
6	1	1	3	0.29	0.25	0.27	24	2	1	3	0.44	0.08	0.83
7	1	1	1	0.33	0.91	0.29	27	2	1	2	0.37	0.50	0.88
9	1	1	3	0.38	0.66	0.48	28	2	1	3	0.48	0.08	0.73
10	1	1	3	0.32	0.66	0.61	29	2	1	3	0.32	0.17	0.76
11	1	1	1	0.45	0.41	0.69	30	2	1	2	0.40	0.00	0.52
12	1	1	1	0.30	0.74	0.55	31	2	1	2	0.44	0.50	0.60
13	1	1	1	0.35	0.99	0.35	33	2	1	2	0.38	0.17	0.57
14	1	1	1	0.18	0.74	0.41	34	2	1	2	0.23	0.33	0.49
15	1	1	3	0.53	1.16	0.76	35	2	1	3	0.17	0.58	0.34
16	1	1	1	0.44	1.65	0.84	37	2	1	1	0.59	1.07	0.72
18	1	1	1	0.45	9.09	0.73	38	2	1	3	0.45	1.16	0.63
19	1	1	1	0.50	2.56	0.77	39	2	1	1	0.45	1.07	0.58
20	1	1	3	0.51	2.89	0.67	40	2	1	3	0.42	1.16	0.56

Table 26. Constructed-Response Item Analyses, Spanish Grade 03 Reading

Mean Item-Total Corr.: 0.59 Mean p-Value: 0.55

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	1	2	0.55	31.32	9.50	22.89	35.45		0.83	0.54
2		1	1	2	0.69	27.36	9.50	10.08	52.23		0.83	0.62
8		1	1	1	0.64	25.12	30.00	42.98			1.90	0.58
17		1	1	1	0.62	11.74	21.65	29.17	33.97		3.47	0.61
25		2	1	1	0.62	15.21	27.60	56.20			0.99	0.70
26		2	1	1	0.46	52.73	25.04	20.99			1.24	0.34
32		2	1	2	0.51	29.01	34.88	29.09	6.20		0.83	0.37
36		2	1	1	0.65	21.74	33.06	43.64			1.57	0.60

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Table 27. Multiple-Choice Item Analyses, English Grade 03 Writing

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.8

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
2	1	3	8	0.46	0.02	0.76	21	2	3	8	0.44	0.03	0.80
3	1	3	8	0.40	0.08	0.82	22	2	3	8	0.27	0.08	0.89
4	1	3	8	0.42	0.20	0.66	23	2	3	8	0.50	0.23	0.67
5	1	3	8	0.51	0.34	0.88	24	2	3	8	0.48	0.48	0.73
6	1	3	8	0.44	0.48	0.90	25	2	3	7	0.44	0.76	0.67
7	1	3	7	0.35	0.24	0.81	26	2	2	5	0.43	0.06	0.89
8	1	3	7	0.34	0.32	0.80	27	2	2	5	0.45	0.12	0.63
9	1	3	7	0.43	0.48	0.84	28	2	3	8	0.48	0.24	0.90
10	1	3	7	0.38	0.31	0.80	29	2	2		0.27	0.43	0.97
11	1	3	7	0.28	0.31	0.98	31	2	2	5	0.40	0.06	0.92
12	1	2		0.27	0.42	0.96	32	2	2	5	0.40	0.07	0.85
14	1	2		0.33	0.18	0.73	33	2	3	8	0.54	0.09	0.77
15	1	2		0.41	1.77	0.83	34	2	3	8	0.46	0.22	0.90
16	1	2		0.48	0.64	0.61	35	2	3	8	0.56	0.38	0.80
17	1	2		0.48	0.95	0.71	36	2	3	8	0.45	0.31	0.71
18	1	3	7	0.44	1.14	0.84	37	2	3	8	0.42	0.33	0.68
19	1	2	5	0.42	0.29	0.79	38	2	3	7	0.46	0.56	0.72
20	1	2	5	0.47	0.33	0.89							

Table 28. Constructed-Response Item Analyses, English Grade 03 Writing

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.75

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1	A	1	3	8	0.41	21.48	78.40				0.13	0.78
1	B	1	3	7	0.53	38.88	61.00				0.12	0.61
1	C	1	3	8	0.50	38.81	61.05				0.14	0.61
1	D	1	3	8	0.46	34.94	64.94				0.12	0.65
1	E	1	3	7	0.21	9.79	90.09				0.12	0.90
1	F	1	3	7	0.39	62.15	37.71				0.13	0.38
13	A	1	2	5	0.25	0.96	95.17	3.63			0.24	0.51
13	B	1	2	5	0.29	1.71	98.05				0.24	0.98
13	C	1	2	5	0.52	18.52	81.24				0.24	0.81
13	D	1	3	5	0.45	8.40	91.36				0.24	0.91
30	A	2	2	5	0.33	1.39	89.51	8.80			0.30	0.54
30	B	2	2	5	0.31	2.34	97.36				0.30	0.97
30	C	2	2	5	0.54	23.91	75.79				0.30	0.76
30	D	2	3	5	0.48	12.02	87.68				0.30	0.88
39	A	2	2	5	0.32	0.96	90.83	7.83			0.38	0.53
39	B	2	2	5	0.27	1.10	98.53				0.38	0.99
39	C	2	2	5	0.55	24.04	75.58				0.38	0.76
39	D	2	3	5	0.47	11.55	88.08				0.38	0.88

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Table 29. Multiple-Choice Item Analyses, Spanish Grade 03 Writing

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	3	7	0.42	0.00	0.86	21	2	3	8	0.35	0.41	0.72
2	1	3	7	0.41	0.00	0.85	22	2	3	8	0.45	0.00	0.59
3	1	3	7	0.44	0.00	0.89	23	2	3	8	0.40	0.17	0.75
5	1	3	7	0.38	0.00	0.62	24	2	3	8	0.34	0.00	0.68
6	1	3	7	0.38	0.08	0.81	25	2	3	8	0.43	0.33	0.80
7	1	3	7	0.32	0.08	0.71	26	2	3	8	0.37	0.17	0.43
8	1	3	7	0.38	0.74	0.54	28	2	3	7	0.44	0.08	0.68
9	1	3	7	0.43	1.32	0.51	29	2	3	7	0.48	0.08	0.88
10	1	3	7	0.36	0.08	0.93	30	2	3	7	0.43	0.41	0.84
11	1	3	7	0.40	0.17	0.85	31	2	3	7	0.51	0.33	0.72
12	1	3	7	0.45	0.41	0.91	32	2	3	7	0.42	0.66	0.61
13	1	2		0.39	0.17	0.74	33	2	2		0.45	0.83	0.65
14	1	2		0.41	0.50	0.79	34	2	2		0.40	0.00	0.92
15	1	2	7	0.49	0.41	0.77	35	2	2		0.41	0.25	0.93
17	1	2		0.49	0.66	0.76	36	2	2		0.50	0.41	0.69
18	1	2		0.11	0.66	0.24	37	2	2		0.35	0.25	0.54
19	1	2		0.19	0.66	0.27	38	2	2		0.35	0.33	0.76
20	2	3	8	0.42	0.00	0.69							

Table 30. Constructed-Response Item Analyses, Spanish Grade 03 Writing

Mean Item-Total Corr.: 0.5 Mean p-Value: 0.67

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4	A	1	3	8	0.43	21.14	78.20				0.66	0.78
4	B	1	3	7	0.32	76.71	22.63				0.66	0.23
4	C	1	3	8	0.52	36.50	62.84				0.66	0.63
4	D	1	3	8	0.49	43.27	56.07				0.66	0.56
4	E	1	3	7	0.42	46.90	52.44				0.66	0.52
4	F	1	3	7	0.39	21.55	77.79				0.66	0.78
16	A	1	2	5	0.52	14.20	52.52	32.45			0.83	0.59
16	B	1	2	5	0.50	25.43	73.74				0.83	0.74
16	C	1	2	5	0.52	27.00	72.17				0.83	0.72
16	D	1	3	5	0.48	16.27	82.91				0.83	0.83
27	A	2	2	5	0.56	17.09	48.72	33.36			0.83	0.58
27	B	2	2	5	0.56	28.49	70.77				0.74	0.71
27	C	2	2	5	0.58	29.23	70.02				0.74	0.70
27	D	2	3	5	0.56	16.76	82.49				0.74	0.82
39	A	2	2	5	0.55	14.37	45.83	39.22			0.58	0.62
39	B	2	2	5	0.51	26.59	72.83				0.58	0.73
39	C	2	2	5	0.55	32.20	67.22				0.58	0.67
39	D	2	3	5	0.47	13.21	86.21				0.58	0.86

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Table 31. Multiple-Choice Item Analyses, English Grade 03 Mathematics

Mean Item-Total Corr.: 0.43 Mean p-Value: 0.74

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	2		0.54	0.06	0.81	21	2	1		0.51	0.07	0.71
2	1	4		0.38	0.13	0.31	22	2	2		0.32	0.10	0.65
3	1	4		0.42	0.14	0.52	23	2	6		0.28	0.32	0.91
5	1	1		0.29	0.28	0.94	25	2	1		0.44	0.26	0.78
6	1	1		0.42	0.42	0.88	27	2	4		0.53	0.30	0.57
7	1	4		0.24	0.22	0.96	28	2	4		0.45	0.37	0.81
8	1	2		0.46	0.09	0.72	29	2	2		0.54	0.32	0.75
10	1	4		0.23	0.14	0.97	30	2	2		0.57	0.28	0.65
11	1	2		0.58	0.25	0.62	31	2	6		0.47	1.38	0.69
12	1	6		0.45	0.20	0.81	32	2	4		0.58	0.40	0.65
13	1	4		0.40	0.79	0.65	34	2	6		0.45	0.78	0.71
14	1	4		0.43	0.16	0.76	35	2	4		0.22	0.15	0.90
15	1	2		0.33	0.18	0.76	36	2	6		0.46	1.38	0.60
17	1	2		0.53	0.15	0.52	37	2	1		0.44	1.11	0.75
18	1	2		0.48	0.27	0.88	38	2	4		0.35	0.22	0.84
19	1	4		0.39	0.20	0.80	39	2	1		0.51	0.25	0.73

Table 32. Constructed-Response Item Analyses, English Grade 03 Mathematics

Mean Item-Total Corr.: 0.62 Mean p-Value: 0.56

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		1	2		0.60	32.22	19.11	48.46			0.21	0.58
9		1	6		0.61	28.08	59.67	12.15			0.10	0.42
16		1	1		0.63	44.30	25.59	29.82			0.29	0.43
20		1	4		0.69	14.41	41.09	20.92	23.52		0.06	0.51
24		2	1		0.69	44.29	38.52	16.84			0.34	0.36
26		2	4		0.58	9.06	32.04	58.66			0.24	0.75
33		2	2		0.50	8.04	28.24	63.62			0.10	0.78
40		2	6		0.63	2.95	39.83	26.01	31.05		0.16	0.62

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Table 33. Multiple-Choice Item Analyses, English Grade 04 Reading

Mean Item-Total Corr.: 0.43 Mean p-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	4	1	0.53	0.02	0.86	42	4	6	1	0.35	0.44	0.53
5	3	5		0.50	0.10	0.62	43	4	6	1	0.48	0.52	0.88
6	3	4	1	0.40	0.23	0.80	45	4	4	1	0.33	0.67	0.85
7	3	1	1	0.52	0.08	0.81	46	4	4	1	0.50	0.85	0.60
8	3	1	1	0.47	0.15	0.68	47	4	4	1	0.43	1.02	0.79
9	3	1	3	0.43	0.18	0.89	48	4	1	3	0.50	1.11	0.59
12	3	1	2	0.39	0.18	0.56	49	4	1	1	0.33	1.07	0.51
13	3	1	3	0.44	0.19	0.69	50	4	1	3	0.44	1.10	0.80
14	3	6	2	0.43	0.37	0.47	51	4	5		0.20	1.27	0.33
16	3	1	2	0.57	0.52	0.68	52	4	5		0.41	1.50	0.48
17	3	5		0.19	0.70	0.41	95	6	4	2	0.50	0.07	0.68
18	3	6	1	0.34	0.38	0.38	96	6	4	2	0.42	0.16	0.81
19	3	6	1	0.15	0.69	0.18	97	6	4	2	0.44	0.21	0.90
21	3	1	3	0.41	1.05	0.43	98	6	5		0.49	0.12	0.83
25	4	1	1	0.45	0.38	0.81	99	6	5		0.43	0.41	0.53
26	4	1	1	0.24	0.08	0.81	100	6	1	3	0.45	0.11	0.90
27	4	1	3	0.44	0.07	0.87	101	6	5		0.51	0.23	0.76
28	4	1	3	0.39	0.18	0.88	104	6	1	2	0.43	0.30	0.89
30	4	1	2	0.37	0.11	0.76	105	6	1	2	0.51	0.51	0.88
31	4	4	2	0.36	0.23	0.48	106	6	1	2	0.49	0.22	0.85
33	4	4	2	0.57	0.21	0.81	107	6	1	2	0.31	0.32	0.60
34	4	4	2	0.50	0.34	0.71	108	6	1	2	0.29	0.36	0.60
35	4	1	2	0.52	0.30	0.70	109	6	6	1	0.32	0.15	0.78
36	4	5		0.44	0.99	0.44	110	6	6	1	0.49	0.27	0.74
37	4	1	3	0.55	0.21	0.82	111	6	6	1	0.52	0.28	0.71
38	4	5		0.50	0.27	0.60	112	6	4	1	0.56	0.28	0.77
40	4	4	1	0.33	0.30	0.51	113	6	6	1	0.56	0.29	0.86
41	4	6	1	0.51	0.45	0.80	114	6	1	3	0.32	0.34	0.43

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Table 34. Constructed-Response Item Analyses, English Grade 04 Reading

Mean Item-Total Corr.: 0.52 Mean p-Value: 0.54

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
10		3	6	1	0.51	19.49	39.29	40.50			0.73	0.60
11		3	6	1	0.53	16.88	48.25	28.16	5.48		1.23	0.40
15		3	4	2	0.46	27.71	54.85	14.77			2.66	0.42
20		3	5		0.60	29.08	18.30	24.93	25.32		2.37	0.48
22		3	1	1	0.58	22.62	38.05	31.53	4.62		3.19	0.38
24		4	1	1	0.57	19.45	24.50	34.91	20.57		0.57	0.52
29		4	1	1	0.45	9.69	37.40	52.49			0.42	0.71
32		4	1	2	0.44	30.86	58.25	9.78			1.11	0.39
39		4	4	1	0.42	16.50	51.58	22.03	8.88		1.00	0.41
44		4	5		0.53	23.06	21.41	54.58			0.95	0.65
102		6	5		0.47	9.61	15.27	74.72			0.39	0.82
103		6	1	2	0.58	6.29	8.53	19.38	65.28		0.52	0.81
115		6	5		0.60	23.57	20.85	53.84			1.74	0.64
116		6	6	1	0.58	21.36	45.72	28.72	3.09		1.11	0.37

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Table 35. Multiple-Choice Item Analyses, Spanish Grade 04 Reading

Mean Item-Total Corr.: 0.35 Mean p-Value: 0.62

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	1	2	0.32	0.88	0.49	39	4	5		0.35	1.77	0.68
5	3	5		0.43	0.00	0.51	40	4	1	1	0.49	1.77	0.77
6	3	6	2	0.20	0.00	0.75	41	4	1	1	0.45	1.77	0.55
7	3	5		0.37	0.88	0.34	43	4	1	1	0.38	0.88	0.39
8	3	6	2	0.16	0.00	0.38	46	4	1	3	0.45	3.54	0.85
9	3	4	2	0.38	0.00	0.75	47	4	6	3	0.14	3.54	0.34
10	3	4	2	0.36	0.00	0.67	48	4	5		0.20	3.54	0.29
11	3	1	3	0.17	0.00	0.68	91	6	1	2	0.36	0.00	0.87
12	3	6	2	0.17	0.00	0.34	92	6	1	3	0.40	0.00	0.70
15	3	4	1	0.25	0.00	0.73	93	6	1	3	0.34	0.00	0.46
16	3	1	1	0.44	0.00	0.81	94	6	1	2	0.31	0.00	0.73
17	3	4	1	0.28	0.00	0.87	95	6	1	2	0.41	0.00	0.84
18	3	1	1	0.50	0.00	0.75	96	6	1	2	0.34	0.00	0.58
19	3	6	1	0.22	0.00	0.94	99	6	6	1	0.24	0.00	0.60
20	3	1	1	0.03	0.00	0.59	101	6	4	1	0.31	0.00	0.47
21	3	1	1	0.46	0.00	0.53	102	6	4	1	0.29	0.00	0.34
22	3	1	1	0.46	0.00	0.58	103	6	1	3	0.42	0.00	0.81
23	3	6	1	0.49	0.00	0.50	104	6	1	3	0.48	1.77	0.65
24	3	6	1	0.34	0.00	0.76	105	6	5		0.34	1.77	0.67
26	4	1	2	0.35	0.00	0.48	106	6	5		0.23	0.00	0.39
27	4	1	3	0.26	0.00	0.83	107	6	5		0.32	0.00	0.58
28	4	4	2	0.40	0.00	0.70	109	6	1	2	0.35	0.00	0.72
30	4	4	2	0.28	0.00	0.43	110	6	1	2	0.35	0.88	0.61
32	4	4	2	0.38	0.00	0.50	111	6	4	2	0.62	0.88	0.68
35	4	4	1	0.47	2.65	0.75	112	6	1	3	0.31	0.88	0.55
36	4	1	1	0.48	0.00	0.68	113	6	1	3	0.21	0.88	0.74
37	4	1	3	0.46	0.00	0.82	114	6	5		0.37	0.88	0.77
38	4	5		0.53	0.88	0.49	115	6	5		0.52	0.88	0.58

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Table 36. Constructed-Response Item Analyses, Spanish Grade 04 Reading

Mean Item-Total Corr.: 0.5 Mean p-Value: 0.47

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
13		3	1	2	0.52	23.89	23.89	37.17	14.16		0.88	0.47
14		3	5		0.46	40.71	49.56	6.19			3.54	0.31
29		4	5		0.64	14.16	9.73	16.81	59.29		0.00	0.74
31		4	4	2	0.49	54.87	27.43	17.70			0.00	0.31
33		4	6	1	0.45	28.32	34.51	23.89	11.50		1.77	0.39
34		4	1	1	0.66	20.35	15.93	28.32	32.74		2.65	0.57
42		4	1	1	0.48	49.56	30.09	18.58			1.77	0.34
44		4	6	1	0.42	18.58	27.43	49.56			4.42	0.63
45		4	4	1	0.43	25.66	27.43	28.32	12.39		6.19	0.40
97		6	4	1	0.36	30.09	41.59	26.55			1.77	0.47
98		6	6	1	0.56	37.17	31.86	20.35	8.85		1.77	0.33
100		6	6	1	0.48	39.82	47.79	10.62			1.77	0.35
108		6	1	2	0.54	17.70	19.47	62.83			0.00	0.73
116		6	5		0.54	18.58	5.31	56.64	17.70		1.77	0.57

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Table 37. Multiple-Choice Item Analyses, English Grade 04 Writing

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.73

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
53	5	3	7	0.32	0.20	0.88	74	5	2	5	0.29	0.30	0.48
54	5	3	7	0.39	0.25	0.89	75	5	3	8	0.48	0.43	0.60
55	5	3	7	0.38	0.58	0.61	76	5	3	8	0.46	0.50	0.59
56	5	3	7	0.28	2.87	0.84	77	5	3	8	0.37	0.80	0.47
57	5	2		0.41	2.96	0.66	78	5	2		0.36	0.31	0.86
58	5	3	7	0.39	0.28	0.89	79	5	3	7	0.44	0.44	0.69
59	5	3	7	0.27	0.23	0.94	80	5	3	8	0.49	1.05	0.80
60	5	2		0.32	0.25	0.88	81	5	3	8	0.42	0.56	0.91
61	5	3	8	0.33	0.54	0.42	82	5	3	8	0.54	0.78	0.63
62	5	3	7	0.41	0.35	0.88	83	5	3	8	0.39	1.56	0.86
63	5	3	7	0.36	0.51	0.90	84	5	2		0.49	0.55	0.67
64	5	3	7	0.34	0.61	0.91	85	5	3	7	0.24	1.11	0.40
65	5	2		0.35	1.05	0.80	86	5	2		0.49	1.02	0.82
66	5	3	8	0.43	1.23	0.61	87	5	2		0.56	1.51	0.79
67	5	3	8	0.47	2.23	0.81	88	5	3	7	0.42	1.73	0.80
68	5	2	5	0.35	0.21	0.86	89	5	3	7	0.51	2.06	0.78
69	5	2	5	0.36	0.27	0.56	90	5	2	5	0.24	0.72	0.35
70	5	3	8	0.43	0.28	0.58	91	5	2	5	0.47	0.86	0.74
71	5	3	7	0.55	0.41	0.73	92	5	2	5	0.30	0.84	0.58
72	5	2	5	0.35	0.22	0.88	93	5	2	5	0.47	0.97	0.74

Table 38. Constructed-Response Item Analyses, English Grade 04 Writing

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.73

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.11	1.40	98.60				0.00	0.99
2	A	2	3	8	0.46	39.54	60.24				0.22	0.60
2	B	2	3	7	0.36	38.73	61.06				0.22	0.61
2	C	2	3	8	0.43	23.15	76.63				0.23	0.77
2	D	2	3	8	0.46	27.52	72.26				0.22	0.72
2	E	2	3	7	0.36	5.79	93.99				0.22	0.94
2	F	2	3	7	0.42	10.18	89.60				0.23	0.90
3	A	2	2	6	0.66	3.21	12.25	34.37	35.86	14.17	0.13	0.61
3	B	2	2	6	0.68	0.16	8.22	38.52	39.12	13.84	0.14	0.64
3	C	2	3	6	0.50	0.21	12.61	87.05			0.13	0.93
23		5	2	5	0.53	1.95	7.60	42.85	36.30	7.72	3.59	0.58
73		5	2	5	0.51	0.23	3.93	43.60	42.63	8.77	0.84	0.64
94		5	2	5	0.56	1.03	7.80	47.25	35.41	6.58	1.92	0.59

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Table 39. Multiple-Choice Item Analyses, Spanish Grade 04 Writing

Mean Item-Total Corr.: 0.33 Mean p-Value: 0.55

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
49	5	3	7	0.40	0.00	0.85	70	5	3	7	0.47	0.00	0.38
50	5	3	7	0.44	0.00	0.83	71	5	3	7	0.40	0.88	0.50
51	5	2		0.27	0.00	0.82	72	5	3	8	0.22	0.00	0.53
52	5	2		0.37	0.00	0.49	73	5	3	8	0.37	0.00	0.30
53	5	2		0.29	0.00	0.98	74	5	3	8	0.28	0.88	0.72
54	5	3	7	0.30	0.00	0.65	75	5	3	8	0.21	1.77	0.44
55	5	2		0.42	0.00	0.81	76	5	3	7	0.18	0.00	0.48
56	5	3	7	0.15	0.88	0.88	77	5	3	7	0.14	0.00	0.42
57	5	2	5	0.14	0.00	0.47	78	5	3	7	0.30	3.54	0.27
58	5	2	5	0.24	0.00	0.55	79	5	3	8	0.16	0.00	0.55
59	5	2	5	0.25	0.00	0.46	80	5	3	8	0.29	0.00	0.38
60	5	2	5	0.40	0.00	0.58	81	5	3	8	0.40	0.00	0.51
61	5	2	5	0.39	0.00	0.50	82	5	3	8	0.44	1.77	0.40
62	5	2	5	0.07	0.00	0.34	83	5	3	8	0.25	0.00	0.56
64	5	3	7	0.39	0.00	0.43	84	5	3	8	0.47	0.00	0.37
65	5	3	7	0.37	0.00	0.76	85	5	3	8	0.36	0.88	0.48
66	5	3	7	0.34	0.00	0.53	86	5	3	8	0.25	0.00	0.42
67	5	3	7	0.56	0.00	0.63	87	5	2		0.40	0.00	0.40
68	5	3	7	0.45	1.77	0.74	88	5	2		0.44	0.00	0.71
69	5	3	7	0.45	3.54	0.54	89	5	2		0.36	0.88	0.52

Table 40. Constructed-Response Item Analyses, Spanish Grade 04 Writing

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.59

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.23	5.31	94.69				0.00	0.95
2	A	2	3	7	0.45	7.96	92.04				0.00	0.92
2	B	2	3	7	0.31	27.43	72.57				0.00	0.73
2	C	2	3	7	0.48	25.66	74.34				0.00	0.74
2	D	2	3	8	0.12	32.74	67.26				0.00	0.67
2	E	2	3	7	0.10	59.29	40.71				0.00	0.41
2	F	2	3	8	0.30	89.38	10.62				0.00	0.11
3	A	2	2	6	0.46	23.89	4.42	45.13	21.24	5.31	0.00	0.45
3	B	2	2	6	0.53	4.42	15.93	54.87	21.24	3.54	0.00	0.51
3	C	2	3	6	0.47	3.54	38.05	58.41			0.00	0.77
25		5	2	5	0.54	16.81	28.32	29.20	20.35	2.65	2.65	0.40
63		5	2	5	0.50	7.96	21.24	48.67	15.93	6.19	0.00	0.48
90		5	2	5	0.50	1.77	15.04	41.59	31.86	8.85	0.88	0.57

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Table 41. Multiple-Choice Item Analyses, English Grade 04 Mathematics

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.75

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	2	2	0.53	0.04	0.59	36	2	4		0.32	0.47	0.92
2	1	2	2	0.54	0.05	0.78	37	2	3		0.56	0.10	0.68
3	1	1		0.35	0.27	0.52	38	2	1	1	0.36	0.39	0.64
4	1	6		0.43	0.84	0.76	39	2	1	1	0.32	0.63	0.37
6	1	2	2	0.47	0.07	0.89	41	2	1	1	0.30	0.24	0.77
7	1	1	1	0.34	0.17	0.93	42	2	3		0.51	0.35	0.83
8	1	6		0.46	0.71	0.80	43	2	4		0.23	0.30	0.91
9	1	6	1	0.38	0.18	0.89	44	2	4		0.35	0.32	0.90
10	1	3		0.51	0.55	0.63	45	2	4		0.31	0.36	0.92
12	1	1	1	0.30	0.19	0.96	47	3	4	3	0.33	0.06	0.94
13	1	4		0.30	0.16	0.80	48	3	1	1	0.34	0.03	0.87
14	1	6		0.40	1.02	0.52	50	3	4		0.23	0.23	0.96
16	1	3		0.48	0.34	0.74	51	3	4		0.42	0.36	0.75
17	1	4		0.47	0.19	0.63	52	3	4		0.47	0.24	0.79
19	1	4		0.28	0.21	0.90	53	3	3		0.39	0.28	0.91
20	1	1	1	0.46	0.30	0.56	54	3	6		0.34	0.76	0.88
21	1	2	2	0.50	0.40	0.50	56	3	1	1	0.50	0.30	0.84
22	1	3		0.35	1.09	0.25	57	3	2	2	0.41	0.35	0.71
24	2	3		0.51	0.07	0.64	58	3	4		0.54	0.24	0.72
25	2	4		0.52	0.10	0.70	59	3	4		0.41	0.26	0.93
26	2	4	3	0.18	0.16	0.98	61	3	1		0.51	0.25	0.65
27	2	6		0.50	0.75	0.73	62	3	6		0.21	0.79	0.95
29	2	4	3	0.32	0.17	0.88	63	3	6	1	0.60	1.24	0.67
31	2	6		0.35	0.69	0.83	64	3	6		0.46	0.71	0.66
32	2	2		0.47	0.12	0.82	66	3	3		0.42	0.25	0.60
34	2	3		0.44	0.28	0.49	67	3	4	3	0.29	0.15	0.87
35	2	6	1	0.49	0.72	0.73	68	3	6		0.47	1.43	0.57

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Table 42. Constructed-Response Item Analyses, English Grade 04 Mathematics

Mean Item-Total Corr.: 0.6 Mean p-Value: 0.61

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
5		1	4		0.57	15.10	22.49	62.18			0.23	0.73
11		1	3		0.60	33.04	39.91	26.63			0.42	0.47
15		1	4		0.45	2.47	11.74	37.67	48.05		0.07	0.77
18		1	4	3	0.60	6.03	29.79	30.72	33.38		0.09	0.64
23		1	6	1	0.70	7.20	35.84	22.99	19.91	13.78	0.27	0.49
28		2	1	1	0.62	52.06	13.04	27.10	7.52		0.28	0.30
30		2	1	1	0.63	12.97	20.77	65.14			1.12	0.76
33		2	1	1	0.69	36.94	38.96	23.76			0.33	0.43
40		2	1	1	0.64	47.18	21.10	15.06	16.46		0.21	0.34
46		2	2	2	0.69	8.30	11.60	18.32	26.77	34.88	0.14	0.67
49		3	2	2	0.49	6.70	37.74	55.45			0.11	0.74
55		3	6	1	0.59	1.34	26.09	24.43	48.06		0.07	0.73
60		3	2	2	0.40	3.99	20.12	75.81			0.08	0.86
65		3	3		0.67	23.06	21.18	18.61	37.00		0.15	0.56
69		3	4	3	0.68	9.19	12.85	21.54	27.48	28.87	0.08	0.63

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Table 43. Multiple-Choice Item Analyses, English Grade 05 Reading

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
5	3	4	1	0.38	0.44	0.85	40	4	5		0.32	0.23	0.55
7	3	1	3	0.48	0.13	0.65	41	4	5		0.39	0.14	0.56
8	3	1	1	0.22	0.18	0.29	42	4	4	1	0.32	0.32	0.61
9	3	5		0.34	0.13	0.52	44	4	4	1	0.34	0.18	0.58
13	3	6	2	0.46	0.22	0.55	45	4	6	1	0.48	0.28	0.85
14	3	4	2	0.42	0.71	0.91	46	4	6	1	0.41	0.25	0.61
15	3	4	2	0.45	0.35	0.64	47	4	6	1	0.44	0.26	0.92
16	3	1	3	0.42	0.39	0.83	49	4	5		0.18	0.30	0.28
17	3	5		0.45	0.41	0.68	50	4	4	2	0.13	0.39	0.36
18	3	5		0.24	0.34	0.56	51	4	5		0.34	0.27	0.59
19	3	1	3	0.34	0.52	0.51	52	4	5		0.19	0.34	0.54
20	3	1	2	0.46	0.57	0.60	97	6	1	2	0.46	0.33	0.91
21	3	1	3	0.48	0.61	0.73	98	6	5		0.17	0.16	0.48
22	3	6	2	0.47	0.75	0.53	99	6	1	3	0.34	0.23	0.75
24	3	1	2	0.57	1.02	0.69	100	6	1	3	0.39	0.16	0.72
25	3	5		0.24	1.10	0.45	101	6	1	3	0.44	1.22	0.72
26	4	1	1	0.29	0.05	0.67	102	6	5		0.40	0.14	0.84
27	4	6	1	0.27	0.08	0.55	103	6	5		0.51	0.51	0.76
29	4	1	1	0.36	0.07	0.75	104	6	5		0.56	0.22	0.83
30	4	4	1	0.48	0.10	0.85	107	6	6	1	0.48	0.23	0.83
31	4	4	1	0.47	0.23	0.76	108	6	4	1	0.50	0.39	0.71
32	4	6	1	0.34	0.28	0.60	109	6	4	1	0.47	0.24	0.58
33	4	5		0.45	0.11	0.77	110	6	1	1	0.49	0.36	0.83
34	4	1	3	0.45	0.22	0.82	111	6	1	1	0.51	0.44	0.79
36	4	4	1	0.24	0.08	0.41	112	6	1	1	0.52	0.68	0.79
37	4	4	1	0.41	0.22	0.74	113	6	1	3	0.34	0.12	0.54
38	4	6	1	0.44	0.19	0.75	114	6	5		0.43	0.29	0.50
39	4	1	3	0.51	0.19	0.85	115	6	1	1	0.56	0.21	0.75

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Table 44. Constructed-Response Item Analyses, English Grade 05 Reading

Mean Item-Total Corr.: 0.51 Mean p-Value: 0.49

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		3	1	1	0.47	50.36	27.38	21.44			0.82	0.35
6		3	6	1	0.44	16.67	58.93	16.24	6.72		1.44	0.37
10		3	1	2	0.43	31.74	30.08	19.44	18.28		0.45	0.41
11		3	4	2	0.66	21.47	12.56	36.66	28.24		1.08	0.57
12		3	5		0.56	18.34	43.65	27.29	9.68		1.04	0.42
23		3	4	2	0.41	32.34	54.83	10.59			2.23	0.38
28		4	6	1	0.48	41.13	49.35	8.94			0.58	0.34
35		4	6	1	0.31	31.76	52.95	5.41	7.26		2.63	0.29
43		4	4	1	0.44	14.08	47.19	25.45	12.54		0.74	0.45
48		4	5		0.47	14.17	21.50	63.75			0.59	0.74
95		6	1	2	0.66	26.96	7.70	64.29			1.04	0.68
96		6	1	2	0.56	16.39	30.97	52.07			0.57	0.68
105		6	1	1	0.64	17.65	19.80	61.85			0.70	0.72
106		6	6	1	0.65	28.61	27.00	38.07	5.46		0.87	0.40

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Table 45. Multiple-Choice Item Analyses, English Grade 05 Writing

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.72

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
53	5	2		0.36	0.16	0.49	74	5	3	8	0.41	0.52	0.85
54	5	3	7	0.37	0.14	0.56	75	5	2	5	0.27	0.23	0.60
55	5	3	7	0.30	1.45	0.92	76	5	2	7	0.54	0.28	0.83
56	5	2		0.38	1.73	0.91	77	5	2	7	0.55	0.47	0.73
57	5	3	8	0.48	0.13	0.82	78	5	2	7	0.52	0.73	0.73
58	5	3	8	0.39	0.32	0.89	79	5	2	7	0.51	0.64	0.79
59	5	3	8	0.26	0.31	0.84	80	5	3	7	0.23	0.60	0.23
60	5	3	8	0.42	0.12	0.89	81	5	3	7	0.46	0.77	0.87
61	5	3	8	0.43	0.21	0.68	82	5	3	7	0.51	0.66	0.72
62	5	3	8	0.38	0.24	0.50	83	5	3	7	0.33	0.57	0.43
63	5	3	8	0.51	0.45	0.81	84	5	3	7	0.52	0.64	0.78
65	5	3	8	0.40	0.17	0.70	85	5	2	5	0.40	0.57	0.62
66	5	3	8	0.48	0.27	0.86	86	5	2	5	0.36	0.48	0.65
67	5	3	8	0.45	0.33	0.89	87	5	2	5	0.31	0.50	0.52
68	5	3	8	0.42	0.19	0.52	88	5	2	8	0.45	0.63	0.69
69	5	2		0.39	0.35	0.85	89	5	2	8	0.37	0.98	0.61
70	5	2		0.45	0.81	0.79	90	5	3	7	0.28	0.66	0.44
71	5	2		0.35	0.30	0.91	91	5	3	7	0.43	0.98	0.82
72	5	3	8	0.46	0.46	0.75	92	5	3	7	0.51	0.98	0.83
73	5	3	8	0.48	0.93	0.65	93	5	3	7	0.53	1.11	0.72

Table 46. Constructed-Response Item Analyses, English Grade 05 Writing

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.75

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.13	1.15	98.85				0.00	0.99
2	A	2	3	8	0.40	22.39	77.48				0.13	0.77
2	B	2	3	7	0.35	10.59	89.27				0.14	0.89
2	C	2	3	7	0.35	6.02	93.85				0.13	0.94
2	D	2	3	7	0.23	11.84	88.03				0.14	0.88
2	E	2	3	8	0.49	55.86	44.00				0.13	0.44
2	F	2	3	8	0.51	30.97	68.89				0.14	0.69
3	A	2	2	6	0.62	2.48	5.80	40.33	41.10	10.19	0.10	0.63
3	B	2	2	6	0.63	0.18	6.60	42.92	39.75	10.46	0.10	0.63
3	C	2	3	6	0.47	0.29	10.96	88.65			0.09	0.94
64		5	2	5	0.51	0.22	2.49	26.68	56.82	13.34	0.45	0.70
94		5	2	5	0.54	0.48	4.96	43.51	41.93	7.23	1.90	0.62
116		5	2	5	0.57	0.54	4.05	36.79	46.59	11.50	0.53	0.66

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Table 47. Multiple-Choice Item Analyses, English Grade 05 Mathematics

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	4	1	0.38	0.02	0.73	36	2	1		0.42	0.37	0.61
2	1	1	1	0.50	1.04	0.49	37	2	1	1	0.59	0.28	0.46
3	1	4		0.32	0.20	0.75	38	2	4		0.40	0.27	0.53
4	1	1		0.47	0.51	0.65	40	2	6		0.40	0.36	0.91
6	1	3		0.50	0.16	0.58	41	2	4		0.36	0.16	0.66
7	1	6		0.44	0.74	0.70	42	2	4		0.31	0.12	0.91
8	1	1	1	0.50	0.18	0.68	43	2	6		0.47	0.81	0.65
9	1	1	1	0.29	0.06	0.90	44	2	3	3	0.34	0.27	0.76
11	1	1	1	0.48	0.92	0.70	45	2	6		0.30	0.52	0.87
12	1	4		0.34	0.09	0.89	47	3	2		0.37	0.04	0.86
13	1	1	1	0.57	0.34	0.52	48	3	4		0.36	0.10	0.77
14	1	1	1	0.45	0.13	0.44	50	3	2	2	0.33	0.06	0.89
15	1	6	1	0.49	0.25	0.64	51	3	6		0.40	0.14	0.87
16	1	6		0.42	0.33	0.84	52	3	2	2	0.50	0.16	0.62
18	1	2		0.51	0.12	0.71	53	3	3	3	0.26	0.38	0.92
19	1	4		0.14	0.07	0.42	55	3	1	1	0.40	0.13	0.58
21	1	3		0.39	0.19	0.60	56	3	4		0.51	0.15	0.75
22	1	4		0.29	0.22	0.62	57	3	6		0.51	0.38	0.64
24	2	1	1	0.53	0.07	0.58	58	3	1		0.34	0.57	0.50
25	2	6		0.43	0.24	0.80	59	3	6		0.41	0.82	0.80
26	2	3		0.38	0.77	0.59	61	3	4		0.41	0.19	0.45
28	2	1	1	0.50	0.36	0.80	62	3	6		0.41	0.49	0.70
29	2	4		0.31	0.11	0.35	63	3	3		0.41	0.20	0.73
30	2	3		0.47	0.29	0.64	64	3	6		0.43	0.11	0.89
31	2	6		0.43	0.47	0.36	65	3	6		0.29	0.63	0.91
32	2	2	3	0.38	0.33	0.84	67	3	2	2	0.47	0.18	0.75
34	2	1	1	0.34	0.41	0.74	68	3	2	2	0.44	0.42	0.28

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Table 48. Constructed-Response Item Analyses, English Grade 05 Mathematics

Mean Item-Total Corr.: 0.61 Mean p-Value: 0.61

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
5		1	4		0.59	11.02	43.54	45.22			0.22	0.67
10		1	3	3	0.56	2.34	28.32	28.39	40.38		0.57	0.69
17		1	2	2	0.60	15.10	20.88	63.84			0.18	0.74
20		1	6		0.70	41.13	24.96	17.91	15.67		0.34	0.36
23		1	2	2	0.65	3.60	7.01	13.34	27.50	48.40	0.15	0.77
27		2	2	2	0.60	39.52	21.64	38.60			0.24	0.49
33		2	4		0.58	33.94	36.96	14.85	14.04		0.22	0.36
35		2	1	1	0.54	5.51	10.60	78.97			4.92	0.84
39		2	2	2	0.52	30.68	33.00	23.14	13.07		0.10	0.40
46		2	3	3	0.73	4.77	20.46	32.45	19.05	23.12	0.15	0.59
49		3	6		0.66	36.72	16.43	46.74			0.11	0.55
54		3	1		0.62	9.74	22.29	18.23	49.51		0.23	0.69
60		3	3	3	0.52	15.90	30.90	52.73			0.47	0.68
66		3	3	3	0.63	14.89	17.31	18.02	49.64		0.14	0.67
69		3	4		0.66	2.84	17.03	20.34	21.09	38.57	0.13	0.69

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Table 49. Multiple-Choice Item Analyses, English Grade 05 Science

Mean Item-Total Corr.: 0.36 Mean p-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	3		0.30	0.03	0.83	39	2	1	1	0.22	0.39	0.49
2	1	3		0.32	0.06	0.28	40	2	1	2	0.28	0.26	0.97
3	1	3		0.39	0.09	0.47	41	2	3		0.42	0.10	0.85
4	1	2		0.35	0.03	0.61	43	2	2		0.46	0.22	0.75
5	1	4		0.34	0.11	0.57	44	2	1	1	0.40	0.08	0.73
6	1	3		0.33	0.22	0.77	45	2	1		0.43	0.08	0.71
7	1	4		0.38	0.05	0.91	47	2	4		0.37	0.07	0.53
9	1	1	1	0.22	0.33	0.39	48	2	1		0.46	0.08	0.60
10	1	1	1	0.52	0.11	0.80	50	2	1	1	0.55	0.19	0.79
11	1	2		0.30	0.04	0.78	51	3	4		0.36	0.02	0.83
12	1	3		0.35	0.08	0.95	52	3	1	1	0.46	0.04	0.86
13	1	1	1	0.33	0.25	0.26	53	3	2		0.32	0.15	0.75
14	1	3		0.19	0.07	0.61	54	3	4		0.42	0.11	0.73
15	1	1	2	0.53	0.04	0.74	56	3	4		0.34	0.27	0.61
16	1	2		0.21	0.15	0.19	57	3	1	2	0.45	0.17	0.56
17	1	4		0.21	0.40	0.24	59	3	4		0.19	0.09	0.91
18	1	1	2	0.38	0.08	0.68	60	3	4		0.32	0.21	0.45
19	1	2		0.53	0.21	0.67	61	3	1	1	0.33	0.25	0.60
20	1	4		0.33	0.12	0.52	63	3	1	1	0.42	0.22	0.65
26	2	4		0.31	0.04	0.89	64	3	1	1	0.37	0.27	0.46
27	2	2		0.42	0.04	0.81	65	3	1	2	0.34	0.20	0.92
28	2	1		0.37	0.08	0.57	67	3	1	1	0.46	0.32	0.80
30	2	3		0.35	0.12	0.69	68	3	1	1	0.30	0.14	0.63
31	2	2		0.54	0.16	0.61	69	3	4		0.43	0.36	0.82
32	2	2		0.32	0.11	0.67	70	3	3		0.36	0.59	0.64
33	2	2		0.37	0.12	0.79	72	3	3		0.42	0.16	0.90
35	2	3		0.21	0.15	0.87	73	3	2		0.44	0.37	0.56
36	2	2		0.33	0.27	0.39	74	3	1	1	0.41	0.29	0.67
38	2	3		0.15	0.24	0.94							

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Table 50. Constructed-Response Item Analyses, English Grade 05 Science

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.5

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
8		1	1		0.36	81.79	5.91	11.39			0.90	0.14
21		1	1	1	0.19	27.49	72.42				0.10	0.72
22		1	1	1	0.40	58.82	40.86				0.32	0.41
23		1	1	1	0.55	21.83	44.06	33.57			0.54	0.56
24		1	1	2	0.61	19.38	40.18	40.16			0.28	0.60
25		1	1	2	0.44	34.09	65.46				0.45	0.65
29		2	2		0.44	52.11	24.81	22.83			0.25	0.35
34		2	3		0.48	41.79	33.89	23.65			0.67	0.41
37		2	4		0.52	53.59	27.20	18.74			0.46	0.32
42		2	4		0.50	49.30	50.16				0.54	0.50
46		2	2		0.61	21.28	37.53	40.92			0.26	0.60
49		2	4		0.51	30.48	61.76	7.20			0.55	0.38
55		3	2		0.49	7.54	31.55	60.47			0.44	0.76
58		3	3		0.36	48.60	51.19				0.20	0.51
62		3	3		0.36	10.19	63.63	25.91			0.26	0.58
66		3	1	2	0.49	42.95	42.22	14.11			0.71	0.35
71		3	1	2	0.46	26.12	55.27	18.12			0.49	0.46
75		3	1	2	0.49	9.66	30.05	59.80			0.48	0.75

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Table 51. Multiple-Choice Item Analyses, English Grade 06 Reading

Mean Item-Total Corr.: 0.40 Mean p-Value: 0.70

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
5	3	4	1	0.35	0.62	0.89	42	4	5		0.36	0.21	0.49
7	3	1	3	0.49	0.11	0.73	43	4	5		0.38	3.22	0.56
8	3	1	1	0.28	0.24	0.34	44	4	5		0.48	0.20	0.74
9	3	6	1	0.22	0.38	0.54	45	4	5		0.49	0.28	0.61
10	3	5		0.36	0.14	0.57	46	4	5		0.54	0.25	0.73
13	3	1	2	0.42	0.49	0.53	47	4	5		0.43	0.43	0.70
14	3	1	2	0.45	1.29	0.62	48	4	5		0.43	0.15	0.86
15	3	1	2	0.48	0.24	0.78	49	4	5		0.51	0.20	0.90
16	3	1	3	0.38	0.37	0.81	50	4	5		0.44	0.19	0.92
17	3	1	3	0.38	0.54	0.90	95	6	6	1	0.31	0.16	0.66
19	3	5		0.43	0.58	0.86	96	6	4	1	0.36	0.23	0.56
20	3	1	1	0.48	0.53	0.80	97	6	1	3	0.35	0.16	0.51
21	3	4	1	0.38	0.68	0.79	98	6	1	3	0.37	0.34	0.80
22	3	1	1	0.39	0.90	0.83	99	6	1	3	0.56	0.57	0.84
23	3	1	1	0.42	1.24	0.57	100	6	4	1	0.33	0.16	0.45
25	3	5		0.58	1.30	0.66	101	6	1	1	0.49	0.38	0.86
26	3	1	3	0.44	1.40	0.91	102	6	1	1	0.33	0.23	0.45
28	4	6	1	0.28	0.06	0.62	103	6	4	1	0.37	0.16	0.84
30	4	1	1	0.24	0.11	0.71	104	6	4	1	0.36	0.19	0.95
31	4	1	1	0.35	0.15	0.80	105	6	6	1	0.43	0.21	0.70
33	4	6	1	0.43	0.11	0.70	107	6	6	1	0.37	0.39	0.46
34	4	5		0.41	0.19	0.80	108	6	1	3	0.25	0.32	0.49
35	4	1	3	0.43	0.40	0.85	109	6	5		0.39	0.32	0.66
37	4	5		0.35	0.50	0.63	112	6	1	2	0.46	0.27	0.79
38	4	5		0.38	0.22	0.60	113	6	4	2	0.44	0.45	0.56
39	4	5		0.38	0.27	0.54	114	6	1	2	0.58	0.55	0.73
40	4	5		0.36	0.21	0.76	115	6	1	3	0.40	1.04	0.62
41	4	1	2	0.44	0.31	0.58	116	6	1	3	0.44	1.14	0.88

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Table 52. Constructed-Response Item Analyses, English Grade 06 Reading

Mean Item-Total Corr.: 0.52 Mean p-Value: 0.45

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		3	1	1	0.47	44.08	29.18	25.61			1.12	0.40
6		3	6	1	0.43	12.72	53.94	19.33	11.95		2.05	0.43
11		3	4	2	0.49	38.35	22.30	26.26	12.19		0.91	0.37
12		3	4	2	0.55	15.80	3.18	23.03	57.39		0.60	0.74
18		3	6	1	0.55	23.75	39.96	34.85			1.44	0.55
24		3	6	1	0.56	25.91	26.90	43.98			3.21	0.57
29		4	6	1	0.53	40.60	46.81	11.99			0.61	0.35
32		4	4	1	0.48	62.46	16.84	14.80	5.16		0.75	0.21
36		4	5		0.50	33.32	31.31	34.24			1.14	0.50
93		6	6	1	0.56	17.88	33.77	27.57	20.11		0.67	0.50
94		6	6	1	0.63	24.81	23.51	50.63			1.05	0.62
106		6	1	1	0.54	18.32	30.59	28.17	15.99	5.66	1.27	0.39
110		6	4	2	0.58	44.09	36.44	17.63			1.84	0.36
111		6	4	2	0.45	33.66	55.54	9.36			1.44	0.37

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Table 53. Multiple-Choice Item Analyses, English Grade 06 Writing

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
51	5	3	7	0.44	0.08	0.86	71	5	3	7	0.35	0.53	0.55
52	5	3	8	0.27	0.13	0.88	72	5	3	7	0.53	0.88	0.81
53	5	2		0.45	0.97	0.80	73	5	3	7	0.54	1.16	0.75
54	5	2		0.39	1.29	0.87	74	5	3	7	0.35	0.24	0.68
55	5	2	7	0.43	0.11	0.91	75	5	3	7	0.42	0.49	0.76
56	5	2	7	0.49	0.25	0.83	76	5	3	7	0.36	0.21	0.65
57	5	2	5	0.33	0.21	0.45	78	5	3	8	0.39	0.61	0.61
58	5	2	5	0.36	0.20	0.79	79	5	3	7	0.24	0.78	0.73
59	5	2	5	0.33	0.23	0.46	80	5	3	7	0.38	0.91	0.51
60	5	2	5	0.26	0.29	0.67	81	5	3	7	0.28	0.49	0.61
61	5	3	8	0.52	0.25	0.71	82	5	3	7	0.36	5.57	0.65
62	5	2	5	0.46	0.15	0.90	83	5	2	8	0.46	0.61	0.72
63	5	3	8	0.32	0.40	0.49	84	5	2	8	0.42	0.92	0.67
64	5	3	7	0.40	0.20	0.86	85	5	2	5	0.42	0.58	0.62
65	5	3	7	0.52	0.64	0.79	86	5	2	8	0.39	0.72	0.55
66	5	3	8	0.52	0.58	0.85	87	5	2	8	0.35	0.70	0.59
67	5	3	8	0.57	0.24	0.67	88	5	2	7	0.51	1.12	0.80
68	5	3	7	0.53	0.30	0.69	89	5	3	8	0.36	0.79	0.56
69	5	3	7	0.49	2.06	0.81	90	5	3	8	0.51	1.16	0.75
70	5	3	7	0.46	0.33	0.67	91	5	3	8	0.53	0.96	0.86

Table 54. Constructed-Response Item Analyses, English Grade 06 Writing

Mean Item-Total Corr.: 0.44 Mean p-Value: 0.71

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.12	0.92	99.08				0.00	0.99
2	A	2	3	8	0.36	28.98	70.87				0.15	0.71
2	B	2	3	7	0.46	38.66	61.20				0.15	0.61
2	C	2	3	7	0.33	23.12	76.74				0.14	0.77
2	D	2	3	8	0.45	27.21	72.64				0.14	0.73
2	E	2	3	7	0.37	58.60	41.25				0.15	0.41
2	F	2	3	8	0.41	15.59	84.26				0.14	0.84
3	A	2	2	6	0.63	0.87	3.40	39.90	48.22	7.52	0.09	0.64
3	B	2	2	6	0.65	0.20	4.83	43.99	43.44	7.46	0.08	0.63
3	C	2	3	6	0.45	0.27	8.68	90.97			0.08	0.95
27		5	2	5	0.48	0.41	4.17	35.93	48.29	7.27	3.93	0.62
77		5	2	5	0.52	0.13	3.22	31.88	50.29	13.54	0.94	0.68
92		5	2	5	0.55	0.43	3.32	38.46	46.58	9.12	2.08	0.64

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Table 55. Multiple-Choice Item Analyses, English Grade 06 Mathematics

Mean Item-Total Corr.: 0.4 Mean p-Value: 0.63

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	2		0.37	0.12	0.89	31	2	3		0.53	0.27	0.62
2	1	6		0.46	0.39	0.83	32	2	6		0.43	0.78	0.77
3	1	1		0.37	0.08	0.51	34	2	6		0.41	0.61	0.76
5	1	1		0.45	0.19	0.59	35	2	4		0.29	0.61	0.85
6	1	6	1	0.53	0.13	0.65	36	2	2	2	0.43	0.15	0.61
8	1	1		0.30	0.64	0.77	38	2	4	3	0.15	0.16	0.36
9	1	6	1	0.32	0.21	0.59	39	2	2	2	0.29	0.33	0.56
10	1	4		0.39	0.06	0.82	41	3	4		0.47	0.08	0.59
11	1	3	2	0.46	0.09	0.49	42	3	4	3	0.19	0.08	0.58
12	1	3		0.39	0.14	0.60	44	3	1	1	0.37	0.27	0.50
14	1	4		0.26	0.26	0.92	45	3	3		0.45	0.41	0.48
15	1	3		0.43	0.15	0.66	47	3	4		0.48	0.14	0.55
17	1	1	1	0.54	0.19	0.58	48	3	2		0.49	0.39	0.72
18	1	6		0.51	0.62	0.37	50	3	1	1	0.52	0.31	0.67
19	1	4	3	0.38	0.21	0.60	51	3	4	3	0.31	0.29	0.61
21	2	1	1	0.48	0.10	0.40	52	3	6		0.23	0.74	0.92
22	2	1		0.50	0.20	0.37	53	3	4		0.23	0.37	0.58
24	2	6		0.42	0.30	0.87	54	3	4		0.32	0.48	0.43
25	2	3		0.49	0.10	0.72	55	3	6		0.42	0.69	0.79
26	2	1	1	0.31	0.18	0.74	56	3	2	2	0.50	0.51	0.67
27	2	1	1	0.44	0.18	0.40	58	3	1	1	0.44	0.19	0.64
28	2	2	2	0.43	0.19	0.84	59	3	3		0.48	0.30	0.51
30	2	4	3	0.48	0.30	0.58							

Table 56. Constructed-Response Item Analyses, English Grade 06 Mathematics

Mean Item-Total Corr.: 0.59 Mean p-Value: 0.57

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		1	4		0.39	3.18	20.63	75.96			0.23	0.86
7		1	3		0.50	1.05	12.23	27.44	58.96		0.31	0.81
13		1	4	3	0.64	54.37	24.27	20.80			0.56	0.33
16		1	1	1	0.67	32.65	24.72	6.68	34.59		1.36	0.47
20		1	2	2	0.63	4.96	32.32	29.93	23.84	8.69	0.26	0.50
23		2	2	2	0.59	38.64	7.81	53.38			0.17	0.57
29		2	2	2	0.56	23.23	29.13	26.26	21.19		0.19	0.48
33		2	6	1	0.56	22.71	25.86	51.16			0.27	0.64
37		2	2	2	0.53	8.26	13.71	15.77	61.97		0.29	0.77
40		2	3		0.60	19.66	47.86	19.86	5.56	6.80	0.26	0.33
43		3	3		0.59	20.34	13.43	65.76			0.46	0.72
46		3	6		0.62	26.71	24.53	48.36			0.40	0.61
49		3	4	3	0.62	22.93	35.25	16.29	25.33		0.19	0.48
57		3	4	3	0.55	27.43	44.31	23.19	4.57		0.50	0.35
60		3	1	1	0.75	4.70	17.09	21.85	32.24	23.95	0.18	0.63

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Table 57. Multiple-Choice Item Analyses, English Grade 07 Reading

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
7	3	6	1	0.28	0.14	0.77	42	4	5		0.41	0.24	0.80
8	3	1	1	0.43	0.14	0.85	43	4	5		0.43	0.20	0.80
9	3	1	3	0.45	0.13	0.92	44	4	5		0.44	2.96	0.85
10	3	5		0.43	0.11	0.91	45	4	5		0.49	0.66	0.75
14	3	1	1	0.38	0.18	0.73	46	4	5		0.45	0.21	0.86
15	3	4	1	0.48	0.29	0.91	91	6	4	2	0.28	0.17	0.34
16	3	4	1	0.34	0.49	0.68	92	6	6	2	0.34	0.19	0.71
17	3	5		0.20	0.45	0.42	93	6	1	3	0.46	0.11	0.73
18	3	1	3	0.52	0.35	0.64	94	6	5		0.35	0.36	0.51
19	3	5		0.37	0.32	0.71	95	6	6	2	0.39	0.21	0.82
20	3	5		0.45	0.54	0.71	96	6	4	4	0.37	0.10	0.88
21	3	4	4	0.51	0.43	0.73	97	6	4	4	0.35	0.13	0.96
22	3	6	4	0.29	0.53	0.56	98	6	1	3	0.30	0.17	0.57
23	3	6	4	0.40	0.50	0.70	100	6	6	4	0.45	0.54	0.73
24	3	6	4	0.12	0.54	0.51	101	6	6	4	0.42	1.04	0.54
26	3	6	4	0.29	4.54	0.32	102	6	5		0.42	0.23	0.72
27	3	4	4	0.47	4.54	0.79	103	6	6	4	0.37	0.86	0.70
28	3	4	4	0.33	4.56	0.58	104	6	1	2	0.37	0.07	0.79
29	4	1	3	0.35	0.08	0.56	105	6	4	2	0.43	0.12	0.76
30	4	4	4	0.40	0.08	0.80	106	6	1	3	0.36	0.13	0.75
31	4	6	4	0.29	0.30	0.85	107	6	1	3	0.38	0.10	0.85
32	4	6	4	0.41	0.22	0.58	108	6	5		0.38	0.20	0.68
33	4	5		0.46	0.20	0.66	109	6	4	2	0.37	0.30	0.77
35	4	5		0.44	0.08	0.79	110	6	5		0.43	0.42	0.68
36	4	4	2	0.42	0.20	0.91	113	6	1	2	0.45	0.44	0.82
38	4	1	3	0.46	0.15	0.87	114	6	4	2	0.44	0.27	0.60
39	4	4	2	0.24	0.39	0.63	115	6	1	3	0.44	0.24	0.70
41	4	1	3	0.18	0.16	0.33	116	6	1	3	0.46	0.25	0.91

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Table 58. Constructed-Response Item Analyses, English Grade 07 Reading

Mean Item-Total Corr.: 0.5 Mean p-Value: 0.5

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		3	1	1	0.62	11.82	15.08	25.81	46.33		0.96	0.69
5		3	1	1	0.38	9.48	28.05	61.96			0.51	0.76
6		3	5		0.43	32.60	41.62	21.84	3.12		0.82	0.32
11		3	5		0.50	14.42	21.86	61.75			1.97	0.73
12		3	6	1	0.53	21.84	49.77	27.11			1.27	0.52
13		3	6	1	0.57	18.50	15.71	64.38			1.41	0.72
25		3	6	4	0.55	10.20	54.71	22.02	6.92	3.89	2.26	0.34
34		4	1	2	0.44	43.40	38.79	16.71			1.10	0.36
37		4	1	2	0.41	12.58	65.50	20.84			1.08	0.54
40		4	4	2	0.45	33.07	44.49	20.94			1.49	0.43
90		6	1	2	0.51	46.24	21.08	14.30	17.04		1.34	0.34
99		6	1	4	0.52	14.35	28.73	29.65	18.88	6.84	1.55	0.43
111		6	4	2	0.58	39.52	39.82	18.71			1.95	0.39
112		6	4	2	0.45	33.49	55.57	9.52			1.42	0.37

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Table 59. Multiple-Choice Item Analyses, English Grade 07 Writing

Mean Item-Total Corr.: 0.43 Mean p-Value: 0.7

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
48	5	3	7	0.38	0.05	0.79	69	5	2	5	0.53	0.18	0.70
49	5	3	8	0.45	0.15	0.51	70	5	2	5	0.33	0.29	0.67
50	5	3	7	0.37	0.39	0.89	71	5	3	7	0.38	0.44	0.58
51	5	3	7	0.47	2.41	0.85	72	5	3	7	0.52	0.52	0.73
52	5	3	7	0.50	2.84	0.75	73	5	3	7	0.37	0.72	0.75
53	5	3	8	0.38	0.12	0.64	74	5	3	7	0.34	0.62	0.45
54	5	3	8	0.29	0.36	0.59	75	5	3	7	0.31	0.70	0.51
55	5	2	7	0.49	0.19	0.85	76	5	3	7	0.39	0.38	0.43
56	5	3	7	0.43	0.26	0.88	77	5	3	7	0.37	0.26	0.60
57	5	3	7	0.47	0.26	0.81	78	5	2	5	0.31	0.50	0.53
58	5	2	5	0.47	0.23	0.82	79	5	2	5	0.41	0.25	0.49
59	5	2	8	0.43	0.28	0.50	80	5	3	7	0.48	0.24	0.91
60	5	2	8	0.48	0.20	0.79	81	5	3	7	0.36	0.27	0.68
61	5	2	5	0.44	0.23	0.75	82	5	3	8	0.37	0.72	0.63
62	5	3	8	0.43	0.31	0.73	83	5	3	8	0.54	0.98	0.68
63	5	2	7	0.26	0.31	0.78	84	5	3	8	0.52	0.81	0.88
64	5	2	7	0.41	0.29	0.53	85	5	3	7	0.58	0.38	0.79
65	5	2	5	0.40	0.17	0.72	86	5	3	7	0.52	1.58	0.77
66	5	2	7	0.43	0.56	0.49	87	5	2		0.48	0.48	0.89
67	5	3	8	0.43	0.74	0.89	88	5	2		0.54	0.57	0.75

Table 60. Constructed-Response Item Analyses, English Grade 07 Writing

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.69

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.12	1.14	98.86				0.00	0.99
2	A	2	3	7	0.34	7.99	91.83				0.17	0.92
2	B	2	3	7	0.40	12.15	87.67				0.18	0.88
2	C	2	3	8	0.43	55.51	44.31				0.17	0.44
2	D	2	3	8	0.35	79.17	20.65				0.18	0.21
2	E	2	3	7	0.22	8.32	91.50				0.18	0.91
2	F	2	3	8	0.38	55.78	44.04				0.18	0.44
3	A	2	2	6	0.61	1.06	2.49	27.52	55.25	13.55	0.12	0.69
3	B	2	2	6	0.62	0.17	3.41	32.91	50.26	13.12	0.13	0.68
3	C	2	3	6	0.41	0.26	6.98	92.64			0.12	0.96
47		5	2	5	0.54	0.12	2.41	35.88	52.16	8.83	0.61	0.66
68		5	2	5	0.51	0.15	3.10	47.21	44.45	4.29	0.80	0.62
89		5	2	5	0.52	0.19	3.34	41.96	47.22	5.84	1.45	0.63

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Table 61. Multiple-Choice Item Analyses, English Grade 07 Mathematics

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.57

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	1	2	0.42	0.03	0.64	31	2	3		0.49	0.20	0.43
2	1	1	1	0.48	0.12	0.59	32	2	4	2	0.47	0.30	0.36
4	1	1		0.58	0.42	0.44	34	2	3		0.43	0.24	0.62
5	1	4		0.37	0.18	0.66	36	2	1	1	0.46	0.34	0.49
6	1	4	2	0.24	0.12	0.42	37	2	3		0.28	0.31	0.40
8	1	3		0.29	0.13	0.52	38	2	4		0.27	0.13	0.62
9	1	4		0.51	0.11	0.54	39	2	2		0.54	0.23	0.40
10	1	1		0.37	0.16	0.58	41	3	4		0.19	0.09	0.54
12	1	3		0.43	0.19	0.68	42	3	2		0.32	0.08	0.62
13	1	2		0.23	0.35	0.44	43	3	2		0.42	0.44	0.59
15	1	3		0.28	0.24	0.22	44	3	1		0.33	0.73	0.33
16	1	3		0.46	0.30	0.74	46	3	1		0.38	0.47	0.83
17	1	2		0.39	0.22	0.36	47	3	3		0.49	0.13	0.80
18	1	4	2	0.09	0.40	0.54	48	3	1		0.33	0.49	0.76
19	1	1	1	0.40	0.32	0.65	50	3	4		0.35	0.31	0.54
21	2	4	2	0.17	0.17	0.60	52	3	3		0.48	0.43	0.61
22	2	1	1	0.44	0.12	0.80	53	3	1		0.37	0.34	0.80
23	2	2		0.49	0.06	0.69	54	3	4		0.46	0.26	0.58
24	2	1	1	0.32	0.54	0.91	56	3	2		0.28	0.75	0.37
26	2	1		0.38	1.09	0.81	57	3	4	2	0.21	0.38	0.27
27	2	4		0.49	0.17	0.61	58	3	2		0.40	0.27	0.36
28	2	2		0.46	0.23	0.63	59	3	1		0.47	0.66	0.63
30	2	1		0.22	0.63	0.62							

Table 62. Constructed-Response Item Analyses, English Grade 07 Mathematics

Mean Item-Total Corr.: 0.63 Mean p-Value: 0.43

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
3		1	4	2	0.70	45.71	23.79	30.00			0.49	0.42
7		1	4	2	0.54	24.76	44.05	25.12	5.57		0.49	0.37
11		1	2		0.63	30.97	22.07	44.59			2.38	0.56
14		1	4	2	0.75	35.98	25.97	19.71	17.81		0.52	0.40
20		1	1	1	0.69	32.83	34.48	15.16	7.11	8.88	1.54	0.30
25		2	1		0.47	21.72	25.12	52.93			0.23	0.65
29		2	3	1	0.66	26.51	39.91	26.02	6.72		0.83	0.37
33		2	3		0.33	11.87	54.46	33.29			0.37	0.61
35		2	2		0.67	7.90	15.97	44.35	31.56		0.22	0.66
40		2	4	2	0.74	58.99	10.88	9.27	5.21	15.05	0.60	0.26
45		3	4	2	0.64	53.17	27.68	18.77			0.38	0.33
49		3	1		0.71	50.12	31.00	11.58	6.83		0.47	0.25
51		3	1	1	0.59	66.94	11.05	20.90			1.12	0.26
55		3	2		0.74	25.89	29.68	21.23	22.43		0.77	0.46
60		3	3		0.56	21.67	4.32	38.95	13.87	20.00	1.19	0.51

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Table 63. Multiple-Choice Item Analyses, English Grade 08 Reading

Mean Item-Total Corr.: 0.36 Mean p-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	1	3	0.22	0.07	0.81	43	4	1	3	0.24	0.67	0.39
5	3	6	1	0.40	0.05	0.87	44	4	4	4	0.27	1.04	0.53
7	3	1	3	0.44	0.07	0.68	45	4	4	4	0.27	1.28	0.45
8	3	5		0.38	0.11	0.75	46	4	6	4	0.13	1.26	0.42
9	3	1	1	0.43	0.32	0.64	48	4	6	4	0.22	2.51	0.35
10	3	5		0.39	0.11	0.77	49	4	6	4	0.46	2.31	0.51
11	3	5		0.27	0.20	0.46	50	4	6	4	0.00	2.57	0.26
12	3	5		0.30	0.20	0.41	94	6	4	1	0.33	0.18	0.42
15	3	1	2	0.26	0.18	0.85	95	6	6	1	0.35	0.17	0.75
16	3	4	2	0.35	0.20	0.39	96	6	1	3	0.46	0.09	0.78
17	3	4	2	0.29	0.26	0.64	97	6	1	3	0.54	0.14	0.77
18	3	1	3	0.45	0.19	0.85	98	6	5		0.50	0.11	0.69
19	3	4	2	0.42	0.40	0.81	99	6	5		0.38	0.20	0.62
20	3	1	2	0.41	0.35	0.89	100	6	5		0.37	0.68	0.53
23	4	4	4	0.32	0.07	0.62	101	6	6	1	0.51	0.13	0.84
25	4	6	4	0.24	0.14	0.66	102	6	6	1	0.38	0.22	0.83
26	4	4	4	0.46	0.14	0.86	103	6	4	1	0.38	0.45	0.63
27	4	1	3	0.32	0.26	0.42	105	6	4	4	0.20	0.09	0.64
29	4	1	3	0.30	0.08	0.88	106	6	6	4	0.38	0.25	0.57
31	4	1	3	0.38	0.32	0.64	107	6	1	4	0.39	0.22	0.64
32	4	4	2	0.38	0.28	0.86	108	6	6	4	0.40	0.24	0.64
33	4	4	2	0.43	0.32	0.71	110	6	6	2	0.46	0.25	0.81
34	4	5		0.36	0.60	0.54	111	6	4	2	0.43	0.36	0.69
35	4	5		0.45	0.59	0.86	112	6	4	2	0.40	0.16	0.74
36	4	1	2	0.45	0.14	0.87	113	6	1	3	0.41	0.22	0.88
37	4	4	2	0.19	0.33	0.56	114	6	1	3	0.50	0.19	0.82
39	4	1	3	0.46	0.32	0.89	115	6	5		0.33	0.25	0.61
41	4	5		0.45	0.56	0.77	116	6	5		0.44	0.19	0.69

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Table 64. Constructed-Response Item Analyses, English Grade 08 Reading

Mean Item-Total Corr.: 0.52 Mean p-Value: 0.49

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
6		3	1	1	0.49	33.64	37.56	27.95			0.85	0.47
13		3	1	2	0.50	7.71	47.25	29.89	14.15		1.00	0.50
14		3	1	2	0.44	4.51	13.96	80.66			0.86	0.88
22		4	4	4	0.52	16.14	48.93	33.94			0.99	0.58
24		4	6	4	0.51	41.99	37.91	14.69	2.96		2.45	0.25
28		4	5		0.51	10.81	15.68	33.96	37.54		2.01	0.65
30		4	5		0.60	38.88	9.70	46.30			5.13	0.51
38		4	1	2	0.47	41.65	38.37	17.63			2.36	0.37
40		4	4	2	0.62	17.69	37.45	27.55	15.16		2.16	0.46
42		4	1	2	0.39	14.94	63.09	19.06			2.90	0.51
47		4	6	4	0.52	37.52	37.36	12.14	7.16		5.81	0.28
93		6	1	1	0.52	39.49	22.20	14.66	22.15		1.51	0.39
104		6	6	4	0.56	32.57	52.20	11.65			3.58	0.38
109		6	5		0.66	12.95	15.32	23.46	45.76		2.51	0.67

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Table 65. Multiple-Choice Item Analyses, English Grade 08 Writing

Mean Item-Total Corr.: 0.42 Mean p-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
51	5	3	8	0.49	0.04	0.77	71	5	3	8	0.22	8.98	0.59
52	5	3	8	0.43	0.10	0.61	72	5	2	7	0.45	0.22	0.90
53	5	3	8	0.38	0.22	0.62	73	5	3	8	0.40	0.22	0.78
54	5	3	7	0.43	0.22	0.81	75	5	3	7	0.44	0.21	0.83
55	5	3	7	0.40	0.32	0.75	76	5	2	7	0.44	0.32	0.54
56	5	3	7	0.24	0.58	0.32	77	5	3	8	0.43	0.27	0.72
57	5	3	7	0.50	0.29	0.85	78	5	2	5	0.49	0.21	0.81
58	5	3	7	0.45	5.03	0.82	79	5	2	5	0.53	0.34	0.75
59	5	2	8	0.48	0.20	0.58	80	5	2	5	0.23	0.83	0.35
60	5	2	8	0.46	0.36	0.81	81	5	2	5	0.40	0.41	0.71
61	5	3	7	0.43	0.46	0.53	82	5	3	8	0.43	0.48	0.49
62	5	3	7	0.40	0.30	0.83	83	5	3	7	0.35	0.98	0.67
63	5	3	7	0.52	0.45	0.78	84	5	2	5	0.42	0.38	0.82
64	5	3	7	0.42	0.52	0.69	85	5	3	8	0.44	0.52	0.69
65	5	3	7	0.40	0.32	0.75	86	5	2	5	0.44	0.41	0.73
66	5	3	7	0.42	0.19	0.87	87	5	3	8	0.55	0.57	0.84
67	5	3	8	0.40	0.13	0.28	88	5	2	5	0.41	0.44	0.55
68	5	3	8	0.43	0.21	0.83	89	5	2	5	0.42	0.63	0.60
69	5	3	8	0.45	0.18	0.78	90	5	2	5	0.28	0.61	0.37
70	5	2	7	0.48	0.13	0.87	91	5	2	5	0.35	0.46	0.47

Table 66. Constructed-Response Item Analyses, English Grade 08 Writing

Mean Item-Total Corr.: 0.45 Mean p-Value: 0.74

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.11	0.80	99.20				0.00	0.99
2	A	2	3	8	0.32	21.65	78.26				0.09	0.78
2	B	2	3	7	0.46	18.50	81.41				0.09	0.81
2	C	2	3	7	0.41	26.58	73.33				0.09	0.73
2	D	2	3	8	0.31	24.40	75.50				0.10	0.75
2	E	2	3	8	0.48	33.91	66.00				0.09	0.66
2	F	2	3	7	0.44	37.98	61.92				0.10	0.62
3	A	2	2	6	0.64	1.32	2.80	22.01	48.50	25.24	0.12	0.73
3	B	2	2	6	0.68	0.11	3.07	24.65	46.00	26.06	0.12	0.74
3	C	2	3	6	0.41	0.17	5.25	94.47			0.11	0.97
21		5	2	5	0.56	0.13	2.58	36.40	49.77	9.92	1.22	0.66
74		5	2	5	0.52	0.13	2.27	43.66	46.85	6.17	0.91	0.64
92		5	2	5	0.52	0.22	3.07	52.42	36.74	5.49	2.07	0.60

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Table 67. Multiple-Choice Item Analyses, English Grade 08 Mathematics

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.54

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	2		0.45	0.06	0.77	32	2	4	2	0.33	0.14	0.62
2	1	4		0.20	0.22	0.45	33	2	1		0.49	0.43	0.37
3	1	1		0.42	0.30	0.83	35	2	3		0.36	0.27	0.48
5	1	3		0.45	0.29	0.37	36	2	3		0.32	0.19	0.57
6	1	2		0.45	0.40	0.60	37	2	3		0.43	0.33	0.62
7	1	1	2	0.46	0.21	0.75	38	2	1		0.52	0.21	0.45
9	1	3		0.51	0.33	0.65	39	2	1		0.34	0.27	0.45
10	1	4		0.33	0.17	0.62	41	3	4		0.35	0.08	0.48
11	1	4	3	0.50	0.19	0.67	42	3	2		0.56	0.22	0.40
12	1	3		0.40	0.42	0.43	43	3	4		0.43	0.16	0.54
14	1	2	1	0.34	0.59	0.48	45	3	2		0.35	0.43	0.42
15	1	1		0.12	1.00	0.31	46	3	3		0.44	0.15	0.78
16	1	2	1	0.40	0.54	0.36	47	3	4		0.39	0.32	0.49
18	1	4	2	0.44	1.11	0.30	49	3	2	1	0.60	0.29	0.52
19	1	3		0.34	1.23	0.33	50	3	4	2	0.18	0.22	0.83
21	2	2	1	0.39	0.07	0.49	52	3	4	2	0.25	0.10	0.56
22	2	4		0.20	0.26	0.47	53	3	1		0.36	0.33	0.40
23	2	2	1	0.48	0.22	0.47	54	3	4		0.43	0.25	0.69
25	2	4	2	0.35	0.11	0.49	56	3	1		0.57	0.46	0.51
27	2	4		0.29	0.15	0.69	57	3	3	2	0.34	0.37	0.44
28	2	2	1	0.24	0.26	0.79	58	3	2	1	0.41	0.31	0.37
29	2	1		0.43	0.33	0.75	59	3	1	2	0.46	0.65	0.67
31	2	1		0.35	0.38	0.44							

Table 68. Constructed-Response Item Analyses, English Grade 08 Mathematics

Mean Item-Total Corr.: 0.60 Mean p-Value: 0.45

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		1	2	1	0.51	6.45	19.52	35.74	38.15		0.14	0.68
8		1	2	1	0.61	25.36	21.01	50.79			2.85	0.61
13		1	4	3	0.58	43.12	28.11	25.56	1.82		1.39	0.28
17		1	1		0.52	75.68	4.08	16.01			4.23	0.18
20		1	1	2	0.70	29.17	33.89	13.07	8.03	11.67	4.16	0.33
24		2	2	1	0.64	23.36	55.27	20.83			0.55	0.48
26		2	4		0.60	51.05	26.32	18.96	2.39		1.28	0.24
30		2	4	3	0.50	61.87	27.71	9.20			1.22	0.23
34		2	3		0.70	25.47	15.24	35.41	22.88		0.99	0.52
40		2	2	1	0.62	3.51	8.08	51.89	24.21	12.02	0.29	0.58
44		3	3		0.35	7.38	46.28	46.00			0.34	0.69
48		3	3		0.61	12.22	17.64	44.85	24.76		0.53	0.61
51		3	1		0.66	47.74	21.89	29.29			1.08	0.40
55		3	1	2	0.64	31.88	30.04	28.28	8.81		0.99	0.38
60		3	4	3	0.70	31.25	6.92	21.29	9.53	29.89	1.11	0.49

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Table 69. Multiple-Choice Item Analyses, English Grade 08 Science

Mean Item-Total Corr.: 0.34 Mean p-Value: 0.51

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	1		0.48	0.03	0.63	44	2	1	2	0.52	0.12	0.70
2	1	1	1	0.26	0.04	0.51	45	2	4		0.38	0.19	0.47
3	1	3		0.29	0.23	0.52	46	2	2	3	0.31	0.14	0.63
5	1	2	3	0.34	0.09	0.51	48	2	1	1	0.34	0.21	0.61
6	1	3	5	0.30	0.13	0.49	49	2	1	2	0.57	0.09	0.50
7	1	1	1	0.41	0.07	0.44	51	2	2		0.47	0.19	0.44
8	1	1	2	0.35	0.06	0.60	52	2	4	6	0.30	0.29	0.57
9	1	1	2	0.44	0.10	0.52	53	2	4		0.19	0.22	0.55
10	1	3		0.31	0.06	0.36	54	2	3	5	0.35	0.13	0.62
12	1	2		0.32	0.13	0.53	55	2	1	1	0.37	0.12	0.59
13	1	1	1	0.28	0.29	0.49	56	3	4	6	0.28	0.08	0.75
15	1	4		0.37	0.10	0.34	57	3	2		0.35	0.13	0.62
16	1	2	3	0.25	0.28	0.54	59	3	2		0.29	0.14	0.44
17	1	3	5	0.37	0.11	0.67	60	3	4	6	0.34	0.42	0.52
18	1	1	1	0.45	0.08	0.46	61	3	4	6	0.28	0.25	0.72
19	1	1	2	0.46	0.04	0.63	62	3	1	1	0.21	0.29	0.33
27	2	2		0.22	0.11	0.36	64	3	1	1	0.45	0.09	0.44
28	2	2		0.41	0.11	0.61	65	3	3	5	0.31	0.69	0.38
29	2	2	3	0.33	0.11	0.51	67	3	1	1	0.41	0.25	0.50
30	2	1		0.49	0.30	0.79	68	3	1	2	0.42	0.13	0.79
31	2	2	3	0.19	0.35	0.36	69	3	4	6	0.40	1.57	0.57
32	2	1	2	0.24	0.62	0.60	72	3	1	1	0.42	0.23	0.45
34	2	4		0.31	0.16	0.51	74	3	3	5	0.29	0.28	0.39
35	2	3		0.17	0.08	0.33	75	3	1	2	0.21	0.23	0.59
36	2	4		0.33	0.17	0.24	76	3	2	3	0.44	0.53	0.41
38	2	2		0.46	0.13	0.47	78	3	3	5	0.28	0.18	0.45
39	2	3	5	0.35	0.18	0.50	79	3	2	3	0.21	0.18	0.51
40	2	3	5	0.20	0.17	0.23	80	3	1	2	0.36	0.12	0.33
41	2	4	6	0.16	0.47	0.28	81	3	1		0.42	0.28	0.52
42	2	1	1	0.48	0.33	0.62	83	3	3		0.25	0.81	0.48

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Table 70. Constructed-Response Item Analyses, English Grade 08 Science

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.43

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		1	1	1	0.20	68.33	30.78				0.89	0.31
11		1	1	2	0.42	64.00	34.74				1.26	0.35
14		1	2	3	0.48	43.22	56.27				0.51	0.56
20		1	1	1	0.51	51.13	48.28				0.59	0.48
21		1	1	1	0.38	34.72	64.85				0.43	0.65
22		1	1	1	0.55	25.62	30.63	42.73			1.02	0.58
23		1	1	1	0.41	34.46	64.56				0.98	0.65
24		1	1	2	0.58	22.61	15.91	15.52	22.86	22.33	0.77	0.51
25		1	1	2	0.66	22.58	27.42	48.13			1.87	0.62
26		2	3	5	0.46	17.42	26.10	56.06			0.42	0.69
33		2	4	6	0.49	46.74	49.58	2.33			1.35	0.27
37		2	1	1	0.70	11.85	19.03	32.65	35.75		0.72	0.64
43		2	4	6	0.34	51.24	42.11	3.76			2.89	0.25
47		2	3	5	0.28	89.97	9.22				0.80	0.09
50		2	4		0.52	34.11	48.30	15.71			1.88	0.40
58		3	2	3	0.28	72.45	19.12				8.44	0.19
63		3	2	3	0.30	58.86	23.77	15.25			2.11	0.27
66		3	3	5	0.54	52.79	44.16				3.06	0.44
70		3	3		0.64	38.22	36.43	24.63			0.72	0.43
71		3	2	3	0.53	47.57	32.90	15.73			3.80	0.32
73		3	4	6	0.31	48.72	39.08	5.52			6.68	0.25
77		3	3		0.58	22.94	40.69	35.30			1.07	0.56
82		3	4		0.53	36.50	49.18	10.44			3.89	0.35

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Table 71. Multiple-Choice Item Analyses, English Grade 09 Reading

Mean Item-Total Corr.: 0.38 Mean p-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
5	3	4	2	0.23	0.14	0.65	37	4	5		0.35	0.13	0.41
6	3	4	2	0.39	0.17	0.48	38	4	5		0.25	0.13	0.44
8	3	4	2	0.38	0.41	0.85	39	4	5		0.40	0.15	0.64
9	3	1	2	0.37	0.11	0.92	40	4	5		0.30	0.25	0.47
10	3	1	3	0.35	0.10	0.83	41	4	5		0.38	0.15	0.85
11	3	1	3	0.14	0.19	0.19	44	4	1	3	0.43	0.92	0.77
12	3	1	3	0.05	0.10	0.18	45	4	4	2	0.54	0.94	0.86
13	3	6	1	0.31	0.13	0.68	46	4	6	2	0.51	1.07	0.65
14	3	5		0.42	0.08	0.57	89	6	1	3	0.31	0.13	0.68
15	3	6	1	0.28	0.20	0.57	91	6	1	3	0.41	0.09	0.90
16	3	4	1	0.45	0.18	0.73	92	6	4	2	0.38	0.22	0.69
17	3	6	1	0.40	0.23	0.79	93	6	4	2	0.23	0.49	0.48
18	3	5		0.54	0.35	0.71	95	6	5		0.32	0.10	0.97
20	3	6	4	0.53	0.17	0.81	96	6	5		0.36	0.15	0.97
21	3	1	4	0.47	0.27	0.77	97	6	5		0.38	0.17	0.96
22	3	1	3	0.53	0.18	0.86	99	6	1	3	0.48	1.32	0.86
23	3	5		0.39	0.21	0.59	101	6	4	1	0.41	0.26	0.67
24	3	5		0.49	0.23	0.80	102	6	1	1	0.42	0.38	0.83
26	4	4	4	0.49	0.04	0.79	104	6	1	1	0.38	0.93	0.64
27	4	4	4	0.23	0.09	0.58	105	6	5		0.53	0.26	0.89
28	4	6	4	0.13	0.12	0.44	106	6	5		0.52	0.37	0.76
30	4	6	4	0.45	0.14	0.64	107	6	5		0.50	0.55	0.77
31	4	6	4	-.04	0.18	0.28	108	6	1	3	0.38	2.56	0.77
32	4	6	4	0.28	0.23	0.41	109	6	1	3	0.41	0.58	0.70
33	4	4	4	0.41	0.23	0.70	110	6	5		0.36	0.55	0.53
34	4	5		0.32	0.32	0.52	111	6	4	1	0.40	1.14	0.61
35	4	1	2	0.40	0.12	0.63	113	6	4	1	0.42	1.11	0.82
36	4	1	3	0.38	0.29	0.65	114	6	5		0.50	1.03	0.77

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Table 72. Constructed-Response Item Analyses, English Grade 09 Reading

Mean Item-Total Corr.: 0.56 Mean p-Value: 0.52

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		3	1	2	0.46	7.95	46.90	28.67	15.50		0.99	0.50
7		3	1	2	0.42	3.99	12.88	81.95			1.18	0.88
19		3	1	4	0.55	26.52	21.40	23.39	25.92		2.78	0.49
29		4	6	4	0.56	30.16	41.15	10.95	14.42		3.34	0.35
42		4	4	2	0.63	21.92	12.48	29.82	32.17		3.62	0.56
43		4	1	2	0.58	5.02	22.09	48.91	20.55		3.43	0.61
90		6	1	2	0.63	27.49	20.63	27.09	19.46		5.34	0.44
94		6	4	2	0.62	10.30	22.41	41.15	22.47		3.67	0.57
98		6	5		0.68	19.97	9.01	27.82	38.27		4.93	0.60
100		6	6	1	0.58	17.55	35.58	29.28	12.21		5.38	0.44
103		6	4	1	0.39	28.94	46.21	20.96			3.89	0.44
112		6	6	1	0.56	18.54	30.59	36.02	8.47		6.38	0.43
115		6	6	1	0.66	18.65	35.75	28.99	9.34		7.27	0.41
116		6	1	1	0.58	22.14	43.27	27.27			7.31	0.49

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Table 73. Multiple-Choice Item Analyses, English Grade 09 Writing

Mean Item-Total Corr.: 0.41 Mean p-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
47	5	3	7	0.42	0.06	0.92	67	5	2	5	0.21	0.18	0.47
48	5	3	7	0.34	0.16	0.76	69	5	3	7	0.48	0.18	0.84
49	5	2	7	0.44	0.20	0.56	70	5	2	8	0.40	0.27	0.42
50	5	2	7	0.30	0.10	0.64	71	5	3	7	0.49	0.91	0.68
51	5	2	7	0.51	0.08	0.80	72	5	3	7	0.39	0.22	0.80
52	5	2	7	0.44	0.21	0.54	73	5	3	7	0.49	0.42	0.83
53	5	2	7	0.33	0.23	0.71	74	5	3	8	0.49	0.47	0.78
54	5	3	8	0.44	0.31	0.77	75	5	3	7	0.42	0.38	0.42
55	5	3	8	0.19	0.15	0.71	76	5	2	7	0.50	0.32	0.81
56	5	3	7	0.53	0.31	0.64	77	5	2	5	0.47	0.26	0.87
57	5	3	8	0.30	6.15	0.40	78	5	3	8	0.30	0.26	0.54
58	5	3	8	0.39	6.91	0.59	79	5	3	7	0.32	0.42	0.57
59	5	3	8	0.43	0.73	0.79	80	5	2	5	0.44	0.26	0.75
60	5	3	8	0.50	0.16	0.84	81	5	2	5	0.25	0.21	0.75
61	5	3	7	0.44	0.30	0.68	82	5	3	8	0.43	0.31	0.32
62	5	3	7	0.38	0.43	0.67	83	5	3	8	0.44	0.55	0.75
63	5	3	7	0.37	0.42	0.53	84	5	3	8	0.52	0.26	0.80
64	5	2	5	0.30	0.18	0.39	85	5	3	7	0.49	0.44	0.73
65	5	2	5	0.39	0.19	0.52	86	5	3	8	0.49	0.63	0.65
66	5	2	5	0.44	0.18	0.77	87	5	2	8	0.56	0.39	0.66

Table 74. Constructed-Response Item Analyses, English Grade 09 Writing

Mean Item-Total Corr.: 0.47 Mean p-Value: 0.66

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.15	1.52	98.48				0.00	0.98
2	A	2	3	8	0.44	18.89	80.96				0.15	0.81
2	B	2	3	7	0.52	37.44	62.41				0.15	0.62
2	C	2	3	7	0.22	48.01	51.83				0.16	0.52
2	D	2	3	8	0.33	77.00	22.85				0.16	0.23
2	E	2	3	7	0.51	34.34	65.50				0.15	0.66
2	F	2	3	8	0.45	46.56	53.28				0.16	0.53
3	A	2	2	6	0.69	0.92	3.63	27.71	40.58	26.88	0.28	0.72
3	B	2	2	6	0.70	0.15	4.56	31.47	39.80	23.74	0.28	0.70
3	C	2	3	6	0.41	0.24	6.26	93.22			0.27	0.96
25		5	2	5	0.56	0.12	3.29	41.55	44.05	9.13	1.86	0.64
68		5	2	5	0.57	0.13	3.34	40.51	47.57	7.15	1.32	0.64
88		5	2	5	0.52	0.47	4.25	37.99	45.85	8.68	2.76	0.63

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Table 75. Multiple-Choice Item Analyses, English Grade 09 Mathematics

Mean Item-Total Corr.: 0.36 Mean p-Value: 0.51

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	2		0.27	0.04	0.91	31	2	1		0.40	0.79	0.48
2	1	4		0.39	0.29	0.50	33	2	3		0.31	0.18	0.63
4	1	1		0.28	0.42	0.46	34	2	1		0.36	0.34	0.45
5	1	4		0.40	0.27	0.23	36	2	4	2	0.42	0.23	0.53
6	1	2		0.44	0.35	0.61	37	2	2		0.39	0.19	0.83
7	1	2	1	0.41	0.10	0.72	38	2	2		0.23	0.46	0.68
9	1	3		0.50	0.33	0.63	39	2	4		0.51	0.44	0.39
10	1	4	2	0.47	0.26	0.38	41	3	3		0.41	0.16	0.59
12	1	1		0.48	0.53	0.41	42	3	4	2	0.25	0.18	0.58
13	1	2		0.45	0.23	0.54	44	3	1		0.38	0.28	0.72
15	1	3		0.15	0.54	0.38	45	3	2		0.34	0.26	0.08
16	1	4		0.23	0.37	0.60	47	3	3	2	0.39	0.32	0.66
17	1	2		0.27	0.59	0.38	48	3	1		0.25	0.36	0.53
18	1	3		0.38	0.51	0.41	49	3	2		0.22	0.34	0.48
19	1	4	2	0.49	0.74	0.34	51	3	3		0.35	0.28	0.39
21	2	3		0.39	0.23	0.44	52	3	3		0.42	0.28	0.68
22	2	2	1	0.54	0.09	0.61	53	3	2		0.39	0.33	0.31
24	2	3		0.46	0.23	0.39	55	3	1		0.30	0.51	0.36
25	2	4		0.42	0.16	0.21	56	3	3		0.38	0.42	0.73
27	2	2		0.31	0.44	0.14	57	3	4		0.15	0.37	0.38
28	2	1	2	0.43	0.35	0.63	58	3	3		0.33	0.33	0.85
29	2	1		0.20	0.53	0.34	59	3	4		0.18	0.47	0.50
30	2	1	2	0.39	0.40	0.70							

Table 76. Constructed-Response Item Analyses, English Grade 09 Mathematics

Mean Item-Total Corr.: 0.65 Mean p-Value: 0.34

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
3		1	4	2	0.67	39.63	26.79	32.68			0.90	0.46
8		1	2		0.73	47.70	16.31	5.50	26.86		3.63	0.36
11		1	1	2	0.67	42.60	26.79	29.50			1.11	0.43
14		1	4		0.66	66.36	17.19	6.86	4.80		4.79	0.15
20		1	2	1	0.74	15.53	21.86	23.04	22.61	15.77	1.20	0.50
23		2	2	1	0.64	23.24	51.06	24.72			0.98	0.50
26		2	4		0.65	43.57	28.01	23.04	3.36		2.01	0.28
32		2	1		0.65	53.91	26.31	15.81			3.96	0.29
35		2	2	1	0.61	27.96	27.46	18.72	24.73		1.13	0.46
40		2	4	2	0.70	70.99	9.69	5.73	4.63	6.69	2.28	0.15
43		3	2	1	0.55	66.52	23.81	3.97			5.70	0.16
46		3	1	2	0.68	51.39	30.56	3.82	12.29		1.94	0.25
50		3	3		0.55	32.65	45.54	20.24			1.57	0.43
54		3	3		0.56	26.39	53.02	11.48	7.06		2.05	0.32
60		3	3	1	0.64	24.47	45.67	16.25	8.18	3.22	2.20	0.29

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Table 77. Multiple-Choice Item Analyses, English Grade 10 Reading

Mean Item-Total Corr.: 0.37 Mean p-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	1	3	0.40	0.11	0.54	39	4	1	3	0.38	0.22	0.79
6	3	6	1	0.29	0.21	0.55	40	4	6	4	0.48	0.26	0.74
7	3	1	1	0.38	0.08	0.80	41	4	6	4	0.31	0.86	0.56
8	3	4	1	0.14	0.25	0.47	42	4	5		0.36	0.42	0.94
9	3	1	3	0.27	0.10	0.71	43	4	5		0.44	0.56	0.60
10	3	1	3	0.43	0.10	0.89	45	4	5		0.50	0.95	0.77
12	3	4	4	0.28	0.13	0.47	46	4	1	3	0.45	1.59	0.58
13	3	4	4	0.27	0.25	0.66	48	4	6	2	0.52	2.12	0.65
14	3	1	3	0.27	0.08	0.62	49	4	4	2	0.28	2.81	0.41
15	3	5		0.30	0.17	0.47	50	4	5		0.42	2.49	0.74
16	3	5		0.38	0.12	0.85	52	4	5		0.44	3.74	0.70
17	3	5		0.21	0.19	0.41	53	4	5		0.40	4.01	0.80
18	3	5		0.31	0.43	0.47	97	6	1	1	0.44	0.14	0.86
19	3	4	4	0.34	0.85	0.50	98	6	4	1	0.38	0.45	0.71
20	3	6	4	0.43	1.77	0.56	99	6	4	1	0.27	0.13	0.88
21	3	1	3	0.25	0.12	0.45	100	6	1	1	0.43	0.18	0.89
22	3	5		0.39	0.40	0.78	102	6	1	1	0.41	0.18	0.65
23	3	5		0.38	0.27	0.81	103	6	5		0.52	0.18	0.91
24	3	5		0.36	0.36	0.54	104	6	1	3	0.39	0.48	0.80
25	3	5		0.43	0.31	0.63	105	6	4	1	0.39	0.22	0.72
26	4	4	2	0.37	0.24	0.75	106	6	5		0.46	0.26	0.78
27	4	4	2	0.45	0.21	0.75	107	6	1	3	0.28	0.33	0.43
30	4	6	2	0.19	0.28	0.53	109	6	1	3	0.41	0.34	0.77
32	4	1	3	0.24	0.13	0.50	110	6	1	3	0.38	0.66	0.79
33	4	5		0.21	0.17	0.29	111	6	5		0.52	0.25	0.79
35	4	4	2	0.45	0.34	0.74	113	6	1	3	0.43	0.45	0.74
37	4	6	4	0.45	0.34	0.82	114	6	4	1	0.41	0.45	0.65
38	4	6	4	0.32	0.21	0.64	115	6	4	1	0.45	0.52	0.83

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Table 78. Constructed-Response Item Analyses, English Grade 10 Reading

Mean Item-Total Corr.: 0.57 Mean p-Value: 0.49

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
5		3	1	1	0.61	5.44	11.71	21.46	28.21	31.03	2.16	0.66
11		3	6	4	0.47	8.90	38.90	49.61			2.58	0.69
28		4	1	2	0.53	11.93	30.93	32.58	22.48		2.09	0.55
29		4	6	2	0.61	20.21	34.93	29.92	11.25		3.68	0.43
31		4	4	2	0.56	35.01	33.68	19.60	7.75		3.96	0.32
34		4	4	2	0.57	24.96	38.88	21.41	7.13		7.62	0.34
36		4	6	4	0.53	18.78	63.86	13.62			3.73	0.46
44		4	1	2	0.70	15.51	20.30	21.57	37.22		5.39	0.58
47		4	5		0.60	11.59	13.99	28.53	36.11		9.78	0.60
51		4	1	2	0.58	28.97	30.56	11.05	15.82		13.6	0.33
96		6	6	1	0.59	13.39	34.25	32.95	15.36		4.05	0.49
101		6	4	1	0.35	29.84	48.63	18.34			3.20	0.43
108		6	1	1	0.65	18.68	25.99	27.40	22.84		5.10	0.50
112		6	6	1	0.60	14.30	29.95	37.91	12.52		5.32	0.48

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Table 79. Multiple-Choice Item Analyses, English Grade 10 Writing

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.73

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
54	5	3	7	0.45	0.05	0.95	75	5	3	7	0.56	0.39	0.89
55	5	3	8	0.36	0.10	0.58	76	5	3	8	0.37	0.35	0.54
56	5	2		0.39	0.31	0.87	77	5	3	8	0.25	0.28	0.51
57	5	3	8	0.48	0.06	0.77	78	5	2	8	0.37	0.38	0.45
58	5	3	8	0.40	1.80	0.58	79	5	2	8	0.51	1.00	0.85
59	5	3	7	0.55	0.38	0.87	80	5	3	8	0.47	0.30	0.87
60	5	3	7	0.53	0.12	0.85	81	5	2	7	0.56	0.42	0.82
61	5	3	7	0.56	0.16	0.90	82	5	3	7	0.48	0.42	0.66
62	5	3	8	0.52	0.16	0.85	83	5	3	7	0.41	0.32	0.64
63	5	2	5	0.42	0.09	0.82	84	5	3	7	0.44	0.63	0.65
64	5	2	5	0.21	0.13	0.50	85	5	3	7	0.53	0.53	0.91
65	5	3	7	0.59	0.16	0.74	86	5	2	7	0.53	0.35	0.80
66	5	3	7	0.55	4.84	0.65	87	5	2	5	0.35	0.36	0.44
67	5	2	5	0.27	0.33	0.56	88	5	2		0.43	0.38	0.83
68	5	2	5	0.54	0.29	0.85	89	5	3	8	0.54	0.66	0.82
69	5	2	5	0.38	0.20	0.64	90	5	2		0.37	0.54	0.52
70	5	2	5	0.44	0.17	0.74	91	5	3	7	0.32	0.61	0.44
71	5	2	5	0.47	0.10	0.88	92	5	3	7	0.53	0.39	0.80
73	5	3	7	0.59	0.23	0.83	93	5	3	7	0.43	0.53	0.78
74	5	3	7	0.53	0.36	0.75	94	5	3	7	0.52	0.48	0.84

Table 80. Constructed-Response Item Analyses, English Grade 10 Writing

Mean Item-Total Corr.: 0.46 Mean p-Value: 0.71

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
1		1	2	6	0.18	1.99	98.01				0.00	0.98
2	A	2	3	7	0.46	10.00	89.82				0.18	0.90
2	B	2	3	7	0.43	22.83	76.97				0.20	0.77
2	C	2	3	8	0.40	50.90	48.92				0.18	0.49
2	D	2	3	8	0.37	17.74	82.07				0.18	0.82
2	E	2	3	8	0.30	84.04	15.67				0.29	0.16
2	F	2	3	8	0.41	16.28	83.54				0.18	0.84
3	A	2	2	6	0.67	1.14	4.16	32.98	39.69	21.61	0.42	0.69
3	B	2	2	6	0.68	0.25	3.99	34.29	39.54	21.50	0.43	0.69
3	C	2	3	6	0.41	0.30	5.71	93.56			0.44	0.96
72		5	2	5	0.55	0.38	4.19	42.07	41.41	9.80	2.15	0.63
95		5	2	5	0.61	0.73	4.64	44.80	38.99	7.43	3.41	0.60
116		5	2	5	0.54	0.51	4.09	34.12	48.66	9.74	2.88	0.64

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Table 81. Multiple-Choice Item Analyses, English Grade 10 Mathematics

Mean Item-Total Corr.: 0.33 Mean p-Value: 0.44

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	1		0.20	0.05	0.63	31	2	3		0.25	0.21	0.29
2	1	2	1	0.38	0.07	0.24	33	2	3	2	0.18	0.32	0.38
3	1	2		0.31	0.16	0.24	34	2	4		0.48	0.37	0.33
5	1	1		0.33	0.23	0.38	35	2	1		0.43	0.22	0.49
6	1	2		0.30	0.14	0.44	37	2	1		0.33	0.36	0.36
7	1	3		0.30	0.22	0.42	38	2	4		0.44	0.23	0.33
8	1	1		0.28	0.22	0.32	39	2	2	1	0.48	0.19	0.42
10	1	1		0.48	0.15	0.52	41	3	1		0.38	0.47	0.22
11	1	4		-.01	0.25	0.27	42	3	3	2	0.38	0.07	0.69
12	1	3	2	0.00	0.24	0.19	43	3	2		0.28	0.23	0.38
13	1	4		0.46	0.28	0.29	44	3	3	2	0.32	0.16	0.29
15	1	1		0.24	0.37	0.37	46	3	3	2	0.27	0.24	0.88
16	1	4		0.42	0.14	0.56	47	3	4		0.58	0.53	0.34
17	1	2	1	0.44	0.25	0.73	49	3	4		0.22	0.56	0.41
19	1	2	1	0.43	0.18	0.63	50	3	4		0.22	0.37	0.51
21	2	4		0.40	0.10	0.30	51	3	1		0.49	0.30	0.64
22	2	3		0.36	0.08	0.70	53	3	2		0.33	0.32	0.51
23	2	2	1	0.37	0.11	0.27	54	3	3		0.42	0.27	0.48
24	2	4		0.43	0.48	0.24	55	3	2		0.27	0.44	0.33
26	2	1		0.42	0.25	0.64	56	3	4		0.19	0.36	0.42
27	2	2		0.28	0.16	0.79	58	3	1		0.32	0.60	0.32
29	2	3	2	0.10	0.45	0.42	59	3	2		0.37	0.46	0.62
30	2	3	2	0.42	0.22	0.65							

Table 82. Constructed-Response Item Analyses, English Grade 10 Mathematics

Mean Item-Total Corr.: 0.61 Mean p-Value: 0.35

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
4		1	2		0.50	22.58	11.86	64.39			1.17	0.70
9		1	2	1	0.61	43.39	11.87	35.96	7.99		0.78	0.36
14		1	3	2	0.21	93.56	2.85	2.02			1.57	0.03
18		1	4		0.56	57.80	30.71	7.92	2.29		1.28	0.18
20		1	4		0.67	70.00	9.90	4.36	7.90	6.43	1.41	0.17
25		2	4		0.65	35.53	26.30	37.00			1.16	0.50
28		2	3		0.60	20.65	44.56	30.43	3.25		1.11	0.38
32		2	1		0.54	37.22	54.83	6.33			1.62	0.34
36		2	2		0.73	47.38	15.29	4.88	28.44		4.00	0.37
40		2	2	1	0.75	39.80	22.59	12.13	9.83	13.70	1.95	0.33
45		3	3	2	0.49	57.35	17.69	23.67			1.29	0.33
48		3	4		0.72	29.64	10.76	17.97	40.32		1.31	0.56
52		3	2		0.68	63.17	6.17	25.98			4.68	0.29
57		3	1		0.69	49.22	29.88	3.59	14.51		2.80	0.27
60		3	3	1	0.68	10.67	37.79	33.90	14.05	1.87	1.71	0.39

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Table 83. Multiple-Choice Item Analyses, English Grade 10 Science

Mean Item-Total Corr.: 0.33 Mean p-Value: 0.54

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
1	1	3		0.26	0.05	0.76	45	2	1		0.23	0.11	0.30
2	1	2	4	0.15	0.04	0.33	46	2	1	1	0.26	0.29	0.53
3	1	3	5	0.24	0.35	0.25	47	2	2		0.22	0.17	0.35
4	1	3		0.26	0.04	0.38	48	2	4		0.43	0.19	0.62
5	1	3	5	0.27	0.13	0.55	49	2	1	1	0.26	0.38	0.36
7	1	1	2	0.42	0.08	0.70	51	2	2	4	0.51	0.44	0.56
8	1	2		0.49	0.12	0.60	52	2	1	1	0.43	0.30	0.81
9	1	2	4	0.26	0.12	0.40	54	2	1		0.35	0.40	0.52
10	1	3		0.27	0.13	0.54	55	3	4	6	0.47	0.06	0.79
11	1	2		0.26	0.12	0.35	56	3	3		0.33	0.04	0.63
12	1	3		0.29	0.22	0.66	57	3	1	1	0.39	0.07	0.42
13	1	1	1	0.30	0.19	0.47	58	3	1	2	0.44	0.09	0.64
14	1	4		0.29	0.08	0.36	59	3	3		0.37	0.37	0.45
15	1	4	6	0.15	0.12	0.33	60	3	3	5	0.28	0.31	0.39
16	1	1	1	0.32	0.11	0.63	62	3	1		0.40	0.22	0.71
17	1	4	6	0.31	0.21	0.54	63	3	1		0.47	0.24	0.71
18	1	1	2	0.53	0.14	0.70	64	3	1		0.30	0.35	0.38
19	1	4	6	0.20	0.14	0.54	66	3	1	2	0.43	0.17	0.76
20	1	3		0.20	0.05	0.29	67	3	4	6	0.20	0.23	0.25
28	2	3	5	0.41	0.04	0.76	69	3	3	5	0.39	0.48	0.50
30	2	1	1	0.36	0.08	0.83	70	3	4	6	0.33	0.19	0.84
31	2	4		0.12	0.10	0.39	71	3	2		0.33	0.28	0.43
32	2	2	4	0.40	0.13	0.33	72	3	1	2	0.34	0.13	0.72
33	2	1	1	0.46	0.14	0.88	74	3	4	6	0.42	0.29	0.54
35	2	2	4	0.37	0.19	0.78	75	3	4		0.29	0.15	0.53
37	2	2	4	-.09	0.39	0.11	76	3	4		0.25	0.38	0.46
39	2	3	5	0.38	0.27	0.60	78	3	3		0.51	0.22	0.63
40	2	1	1	0.46	0.25	0.59	79	3	2		0.29	0.28	0.44
42	2	1	2	0.43	0.10	0.88	80	3	4		0.38	0.29	0.40
43	2	2	4	0.37	0.30	0.42	82	3	2	4	0.36	0.22	0.66

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Table 84. Constructed-Response Item Analyses, English Grade 10 Science

Mean Item-Total Corr.: 0.44 Mean p-Value: 0.41

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score 0	% Score 1	% Score 2	% Score 3	% Score 4	Omit %	p-Value
6		1	4	6	0.49	50.25	35.09	13.57			1.09	0.31
21		1	1	2	0.53	18.35	9.63	30.48	20.69	19.72	1.13	0.53
22		1	1	1	0.46	42.54	24.47	30.46			2.53	0.43
23		1	1	2	0.49	46.65	50.30				3.04	0.50
24		1	1	1	0.47	12.72	15.14	28.06	40.52		3.56	0.64
25		1	1	2	0.41	66.51	30.69				2.80	0.31
26		1	1	1	0.37	46.10	50.40				3.51	0.50
27		1	1	1	0.49	51.15	45.17				3.68	0.45
29		2	3		0.24	36.00	62.47				1.53	0.62
34		2	2		0.26	87.91	8.53	0.13			3.43	0.04
36		2	4	6	0.56	18.79	34.71	43.48			3.02	0.61
38		2	1		0.44	58.11	38.62				3.26	0.39
41		2	3	5	0.43	67.83	24.90	1.03			6.24	0.13
44		2	1	1	0.53	38.75	18.27	40.41			2.57	0.50
50		2	2		0.47	66.92	15.03	14.76			3.29	0.22
53		2	3	5	0.37	75.19	15.82	2.85			6.14	0.11
61		3	4	6	0.52	51.83	33.72	10.12			4.33	0.27
65		3	1	2	0.55	9.63	18.31	69.81			2.25	0.79
68		3	2		0.57	41.24	36.18	20.56			2.01	0.39
73		3	4		0.45	51.25	45.63				3.12	0.46
77		3	1	2	0.33	23.51	35.59	39.14			1.75	0.57
81		3	1	2	0.24	78.13	19.41				2.46	0.19
83		3	1	2	0.50	42.92	54.58				2.50	0.55

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Table 85. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Reading

Item	a	b	c	Fit-Z
2	0.72167	-1.0475	0.0827	15.51
3	0.36822	-1.9891	0.2000	8.29
4	0.74664	-1.3839	0.0600	12.50
5	0.71460	-1.8761	0.2000	47.19
7	0.93788	0.2471	0.2017	9.23
8	0.83057	0.7584	0.1916	21.80
9	1.05345	0.1161	0.2773	13.17
11	1.41997	-0.3167	0.2774	10.02
12	0.93499	-0.3265	0.2520	6.05
13	0.83078	-1.0900	0.0935	15.18
15	0.65843	0.2069	0.1750	17.99
16	0.83580	-1.2321	0.0439	18.93
17	0.96030	0.1441	0.2605	8.84
18	0.89785	-0.8689	0.1383	5.01
19	1.12331	-0.0620	0.2437	19.40
20	1.12197	-0.4559	0.2808	3.74
21	1.10042	-1.3322	0.2421	8.92
22	1.22531	0.4161	0.2252	23.19
23	1.34366	-0.6969	0.2304	11.53
24	0.90807	-1.1991	0.1815	10.90
27	0.44297	0.5924	0.2319	25.05
28	0.62312	-0.3479	0.2044	113.61
29	0.47605	0.0940	0.0792	24.91
30	1.05692	-0.1470	0.2164	22.23
32	1.14187	0.2551	0.4180	27.59
33	1.04138	-0.4872	0.2081	9.80
34	1.08827	-0.4841	0.3749	10.82
36	0.97151	-0.9868	0.2969	14.55
37	1.49099	-0.6607	0.2038	8.39
38	1.12421	-0.9157	0.1978	6.59
39	0.61951	0.9040	0.3715	37.53
40	0.37640	0.5259	0.1571	7.23

N=49454 M1=79.8056 M2=481.036 Critical Z=131.88

Table 86. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Reading

Item	f	g1	g2	g3	g4	Fit-Z
1	0.73194	-0.2302	0.3318	0.8109	.	69.49
6	0.82977	-1.3837	0.0559	.	.	214.68
10	1.27415	-1.2303	2.4087	.	.	144.11
14	1.03428	0.6983	0.0149	.	.	20.52
25	0.72518	-0.2777	-0.1130	1.1499	.	131.05
26	0.58144	1.8927	-1.3734	-0.4781	.	153.21
31	1.06263	0.0759	2.3128	.	.	35.32
35	0.96586	-0.7166	-0.6956	-0.3690	.	17.69

N=49454 M1=79.8056 M2=481.036 Critical Z=131.88

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Table 87. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Spanish Reading

Item	a	b	c	Fit-Z
3	0.93745	1.2845	0.1122	0.46
4	0.34006	-0.7786	0.2000	2.84
5	0.46652	1.8242	0.1691	1.76
6	0.97645	1.6655	0.1508	-0.78
7	0.67079	1.5778	0.1390	-0.65
9	0.69928	0.4300	0.2000	-0.37
10	0.50358	-0.1872	0.2000	2.94
11	0.68534	-0.4401	0.2000	0.21
12	0.53662	0.2077	0.1659	0.37
13	0.91829	1.1092	0.1724	-0.13
14	0.18065	3.9038	0.2000	0.93
15	0.98753	-0.9296	0.2000	-0.94
16	0.89134	-1.3004	0.2000	-0.73
18	0.64552	-0.8697	0.2000	1.11
19	1.00044	-0.8954	0.2000	-1.03
20	0.91870	-0.5557	0.2000	1.11
21	1.54670	-1.9758	0.2000	-0.41
22	0.91119	-0.1558	0.3626	-0.72
23	1.41577	-1.4183	0.2000	-0.52
24	0.68224	-1.4662	0.2000	-0.18
27	0.67958	-1.9677	0.2000	1.36
28	0.85301	-0.8690	0.1528	0.09
29	0.59387	-1.1204	0.2000	1.68
30	1.06614	0.3737	0.2521	0.60
31	1.01174	0.0811	0.2791	1.86
33	0.64071	-0.1927	0.2000	-0.03
34	1.01441	0.9990	0.3235	0.35
35	0.27636	3.5401	0.2294	-0.83
37	1.28936	-0.8824	0.1173	-0.10
38	0.73287	-0.3789	0.2000	-0.77
39	0.89423	-0.1471	0.2177	0.46
40	0.69073	-0.0368	0.1881	-0.03

Pre-Equated N=1349, M1=39.2941, M2=528.4950, Critical Z=3.60

Table 88. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Spanish Reading

Item	f	g1	g2	g3	g4	Fit-Z
1	0.50984	0.7846	-1.0093	-0.3516		6.00
2	0.75468	0.6805	-0.4074	-1.5945		-0.71
8	0.96815	-0.6878	-0.3734			1.66
17	0.65207	-0.5415	-0.4347	0.1401		0.52
25	1.11052	-1.7454	-0.9812			-0.05
26	0.54739	0.6116	0.0062			3.42
32	0.71939	-0.5830	0.3039	1.8817		1.12
36	1.14170	-1.0634	-0.3895			0.98

Pre-Equated N=1349, M1=39.2941, M2=528.4950, Critical Z=3.60

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Table 89. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Writing

Item	a	b	c	Fit-Z
2	1.23656	-0.3028	0.3720	15.81
3	0.66093	-1.3443	0.1669	4.87
4	0.72197	-0.3064	0.1883	1.84
5	1.26265	-1.2265	0.2452	6.19
6	1.11822	-1.3685	0.3368	3.58
7	0.73691	-0.6090	0.4439	4.37
8	0.89706	-0.2926	0.4985	20.95
9	0.76768	-1.3452	0.2000	5.34
10	1.22435	-0.2031	0.4992	39.81
11	0.91427	-2.9725	0.2000	7.40
12	0.66508	-3.0978	0.2000	93.92
14	0.65671	-0.1832	0.3889	9.46
15	0.83370	-0.9742	0.3290	7.43
16	0.99125	0.0009	0.1879	14.54
17	0.96233	-0.4090	0.2235	11.59
18	0.83091	-1.2888	0.2000	3.30
19	0.85092	-0.7149	0.3132	2.65
20	1.23746	-1.1400	0.3739	5.13
21	0.98331	-0.5977	0.3654	23.10
22	0.46567	-2.5397	0.2000	21.46
23	1.05366	-0.2230	0.2082	19.77
24	1.07921	-0.3877	0.2764	14.33
25	0.86559	-0.1539	0.2458	10.92
26	0.94068	-1.4717	0.2893	2.71
27	0.81545	-0.1422	0.1734	9.67
28	1.33948	-1.2587	0.3219	6.38
29	0.71372	-3.0625	0.2000	11.75
31	0.89320	-1.9304	0.2000	1.95
32	0.74106	-1.3015	0.2649	2.16
33	1.31386	-0.5985	0.2378	12.62
34	1.10755	-1.4943	0.2548	31.13
35	1.45451	-0.7157	0.2259	28.30
36	0.85116	-0.4116	0.2321	1.89
37	0.77860	-0.2457	0.2475	7.42
38	0.76141	-0.6400	0.1671	1.70

N=60621 M1=45.623 M2=461.7065 Critical Z=161.66

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Table 90. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Writing

Item	f	g1	g2	g3	g4	Fit-Z
1A	1.03246	-1.4965	.	.	.	17.03
1B	1.38499	-0.5220	.	.	.	5.56
1C	1.28781	-0.5181	.	.	.	15.47
1D	1.12137	-0.7032	.	.	.	11.48
1E	0.60167	-2.3277	.	.	.	48.06
1F	0.97168	0.6531	.	.	.	21.86
13A	1.27391	-5.2007	4.0127	.	.	77.85
13B	1.90485	-5.5630	.	.	.	7.23
13C	1.58820	-1.9810	.	.	.	6.87
13D	1.72191	-3.2881	.	.	.	7.11
30A	1.27599	-4.8063	2.9703	.	.	75.38
30B	1.79518	-4.9818	.	.	.	8.96
30C	1.60511	-1.5358	.	.	.	6.51
30D	1.68597	-2.7196	.	.	.	14.77
39A	1.36527	-5.1837	3.1979	.	.	55.11
39B	2.02876	-6.1187	.	.	.	12.11
39C	1.62954	-1.5282	.	.	.	9.89
39D	1.60319	-2.7032	.	.	.	8.48

N=60621 M1=45.623 M2=461.7065 Critical Z=161.66

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Table 91. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Spanish Writing

Item	a	b	c	Fit-Z
001	0.72636	-1.6356	0.2000	-0.42
002	0.69865	-1.6673	0.2000	-0.09
003	0.79960	-1.7859	0.2000	0.18
005	0.56896	-0.1673	0.2000	0.38
006	0.67890	-1.2497	0.2000	5.31
007	0.57375	-0.7923	0.2000	0.07
008	0.69572	0.3141	0.1901	-0.75
009	0.88029	0.3406	0.2014	0.18
010	0.86365	-2.3712	0.2000	1.26
011	0.71952	-1.5266	0.2000	-0.21
012	0.98466	-1.9949	0.2000	0.89
013	0.55883	-1.1144	0.2000	1.64
014	0.70850	-1.0884	0.2000	-0.06
015	0.80286	-0.9017	0.2000	-1.51
017	0.95328	-0.8250	0.2000	0.81
018	1.35829	1.9369	0.1836	0.91
019	0.98987	1.7456	0.1935	0.41
020	0.76280	-0.3028	0.2000	-0.26
021	0.56024	-0.8516	0.2000	-0.21
022	0.91660	0.1488	0.2061	1.56
023	0.72320	-0.7483	0.2000	2.07
024	0.64572	-0.6175	0.2000	1.94
025	0.74924	-1.0085	0.2000	0.38
026	0.77749	1.0288	0.1889	-0.29
028	0.60282	-0.5751	0.1929	0.18
029	1.09060	-1.4228	0.2000	-0.21
030	0.96215	-1.3955	0.2000	-0.72
031	0.91521	-0.7958	0.2000	-0.66
032	0.63928	-0.0727	0.2000	-0.45
033	0.83169	-0.2761	0.1889	-0.32
034	1.15607	-1.7872	0.2000	-0.91
035	1.03792	-1.8187	0.2000	-1.08
036	0.84772	-0.4358	0.2000	2.11
037	0.59765	0.3643	0.2000	-0.60
038	0.56619	-1.0763	0.2000	-0.13

Pre-equated N=1471, M1=64.1898, M2=501.4712, Critical Z=3.92

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Table 92. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Spanish Writing

Item	f	g1	g2	g3	g4	Fit-Z
4A	1.08595	-1.7175				-1.12
4B	1.10075	1.3937				2.66
4C	1.05723	-0.8095				0.68
4D	1.07840	-0.7179				0.51
4E	1.14458	-0.1152				0.73
4F	0.91387	-1.5841				0.33
16A	1.05874	-2.6250	1.2813			-0.51
16B	1.16766	-0.7295				0.23
16C	1.84093	-1.9080				2.70
16D	1.68899	-3.1443				-0.99
27A	1.41742	-1.5381	1.7595			2.24
27B	1.58094	0.1036				0.50
27C	2.23694	-1.1389				-0.68
27D	1.98233	-2.0143				-0.39
39A	1.06278	-1.8229	1.4828			-0.62
39B	1.06040	0.4272				-0.82
39C	1.63350	-0.8728				0.40
39D	1.23269	-2.0762				0.39

Pre-equated N=1471, M1=64.1898, M2=501.4712, Critical Z=3.92

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Table 93. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Mathematics

Item	a	b	c	Fit-Z
1	1.06969	-1.3975	0.0959	6.56
2	0.66595	1.0029	0.0648	4.13
3	0.82829	0.3314	0.2300	2.04
5	0.69862	-2.7805	0.2000	7.15
6	0.78639	-2.0677	0.1384	9.17
7	0.72221	-3.0863	0.2000	15.39
8	0.73278	-0.9638	0.1263	5.76
10	0.72609	-3.3845	0.2000	4.95
11	1.07057	-0.4599	0.0996	8.74
12	0.74917	-1.5870	0.0938	2.57
13	0.64264	-0.3385	0.2622	0.33
14	0.84773	-0.7500	0.3306	1.52
15	0.45840	-1.4409	0.2000	6.96
17	1.20376	0.0968	0.1685	14.84
18	1.03833	-1.8412	0.0971	14.00
19	0.58221	-1.6728	0.1509	3.99
21	1.00108	-0.6244	0.2390	5.63
22	0.38731	-0.7627	0.1578	5.00
23	0.51345	-2.9776	0.2000	10.16
25	0.67599	-1.4755	0.0710	3.67
27	0.86738	-0.2855	0.0736	7.52
28	0.73119	-1.6210	0.1013	1.46
29	1.05794	-0.9171	0.1644	3.19
30	0.93375	-0.6890	0.0509	12.69
31	0.68877	-0.9692	0.0747	2.76
32	1.07871	-0.5666	0.1062	3.85
34	0.61295	-1.1163	0.0636	2.22
35	0.35795	-3.6398	0.2000	1.41
36	0.65205	-0.4606	0.0948	4.78
37	0.66998	-1.2441	0.1068	1.86
38	0.60148	-1.8117	0.2000	2.58
39	0.80130	-1.0253	0.1063	3.49

N=54608 M1=79.8056 M2=481.036 Critical Z=145.62

Table 94. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Mathematics

Item	f	g1	g2	g3	g4	Fit-Z
4	0.83079	0.0121	-0.8636	.	.	20.88
9	1.45299	-1.5267	2.3455	.	.	83.93
16	1.02007	0.0886	0.1838	.	.	186.55
20	1.12714	-2.0282	0.4898	0.4508	.	71.32
24	1.80247	-0.5193	1.9343	.	.	63.52
26	1.10950	-2.3123	-0.7773	.	.	38.52
33	0.81129	-2.0258	-0.9907	.	.	20.21
40	0.94497	-3.4827	0.0530	0.0953	.	16.83

N=54608 M1=79.8056 M2=481.036 Critical Z=145.62

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Table 95. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Reading

Item	a	b	c	Fit-Z
4	1.58643	-0.9830	0.3321	1.80
5	1.42017	0.0641	0.2511	11.41
6	0.72053	-1.0496	0.2611	12.79
7	1.25532	-0.8051	0.2847	2.25
8	1.00274	-0.2590	0.2540	21.14
9	0.84549	-1.7849	0.2000	5.85
12	1.11965	0.4322	0.2926	25.03
13	0.75569	-0.5331	0.1716	9.12
14	1.16881	0.4983	0.1781	12.62
16	1.22920	-0.3937	0.1457	7.00
17	1.00913	1.5322	0.3248	8.69
18	0.76770	0.9400	0.1431	4.14
19	1.10610	2.0389	0.1264	12.36
21	1.18625	0.6523	0.1674	13.93
25	0.72239	-1.3955	0.0939	17.97
26	0.35311	-2.1205	0.2000	28.53
27	0.78111	-1.8409	0.0879	11.53
28	0.74171	-1.8390	0.2000	36.01
30	0.59074	-1.0612	0.2000	22.54
31	0.78581	0.5872	0.1947	3.10
33	1.29822	-0.9283	0.1901	10.74
34	1.08533	-0.4182	0.2314	3.68
35	1.08250	-0.4277	0.2024	4.58
36	1.17931	0.5326	0.1461	48.17
37	1.47488	-0.8434	0.2787	6.58
38	1.18745	0.0133	0.1914	10.26
40	0.61426	0.5377	0.1961	5.28
41	0.97397	-1.0660	0.1637	5.96
42	0.77159	0.5289	0.2476	20.39
43	1.07656	-1.4563	0.2380	3.96
45	0.52878	-1.9916	0.2000	69.02
46	1.13247	-0.0009	0.1839	13.99
47	0.82525	-0.8116	0.2963	10.66
48	1.37268	0.1184	0.2236	27.59
49	0.47482	0.2969	0.1141	11.90
50	0.75656	-1.1434	0.1892	4.85
51	0.97925	1.6224	0.2356	4.84
52	0.93552	0.4907	0.1785	9.43
95	1.03127	-0.3340	0.2042	3.14
96	0.76468	-1.0515	0.2664	5.37
97	0.89157	-1.8233	0.2082	83.56
98	1.16554	-0.9319	0.3105	-0.29
99	0.97110	0.3083	0.1893	13.77
100	1.15709	-1.4518	0.3306	3.55
101	0.92118	-0.8713	0.1334	0.72
104	0.97359	-1.4566	0.3408	14.61
105	1.17904	-1.4061	0.2173	1.75
106	1.06998	-1.2043	0.2550	8.18
107	0.93268	0.5835	0.3884	13.69
108	0.35922	-0.3552	0.1097	15.15

Continued

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Table 95. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Reading (Concluded)

Item	a	b	c	Fit-Z
109	0.44033	-1.4505	0.2000	121.51
110	0.83553	-0.8067	0.1448	1.71
111	1.00616	-0.5430	0.1556	7.79
112	1.34056	-0.6515	0.2275	4.51
113	1.59332	-1.1114	0.2377	5.21
114	1.13656	0.9132	0.2474	14.57

N=61325 M1=49.3747 M2=588.8542 Critical Z=163.53

Table 96. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Reading

Item	f	g1	g2	g3	g4	Fit-Z
10	0.76862	-1.0332	0.1099	.	.	62.94
11	0.85156	-1.4115	0.7081	2.2470	.	25.84
15	0.79383	-0.7868	1.6291	.	.	46.04
20	0.69967	0.2130	-0.2653	0.3230	.	25.82
22	0.93709	-0.8061	0.4152	2.6424	.	68.08
24	0.68174	-0.6068	-0.3603	0.8351	.	65.91
29	0.69261	-1.7585	-0.3126	.	.	273.93
32	0.81601	-0.7718	2.1520	.	.	13.25
39	0.54496	-1.2956	0.9195	1.1977	.	100.20
44	0.73059	-0.2554	-0.8524	.	.	41.75
102	0.71832	-1.0250	-1.6608	.	.	66.56
103	0.74455	-1.1806	-1.2459	-1.1879	.	31.56
115	0.93272	-0.3140	-0.8079	.	.	235.33
116	1.00820	-1.1883	0.7441	3.0688	.	346.19

N=61325 M1=49.3747 M2=588.8542 Critical Z=163.53

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Table 97. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Spanish Reading

Item	Source Year	a	b	c	Fit-Z
4	2004	0.83	0.55	0.18	-0.1
5	2005	1.08	0.40	0.26	-0.4
6	2005	0.37	-0.98	0.20	1.1
7	2004	1.64	1.44	0.27	-0.2
8	2004	0.50	2.47	0.22	0.0
9	2004	0.86	-0.09	0.31	-0.2
10	2004	0.67	0.02	0.30	0.0
11	2004	0.17	-1.09	0.20	-0.6
12	2004	0.24	3.74	0.20	0.9
15	2004	0.26	-1.31	0.20	-1.1
16	2004	0.61	-0.87	0.20	-0.1
17	2004	0.33	-2.10	0.20	-0.2
18	2004	0.65	-0.91	0.20	0.4
19	2004	0.87	-2.42	0.20	-0.1
20	2004	0.14	0.37	0.20	1.3
21	2004	0.91	-0.01	0.18	-0.3
22	2004	0.92	0.25	0.16	-0.1
23	2004	0.57	0.30	0.20	2.9
24	2007	0.58	-0.48	0.20	-0.5
26	2004	0.36	0.36	0.20	0.0
27	2005	1.29	-0.76	0.40	0.2
28	2004	0.46	-0.70	0.20	-1.2
30	2004	0.46	1.17	0.20	-1.4
32	2007	0.74	0.91	0.20	-0.4
35	2004	0.94	-0.95	0.20	-1.5
36	2004	1.19	0.02	0.18	0.6
37	2004	0.87	-1.01	0.20	-0.3
38	2004	0.77	0.92	0.20	0.1
39	2004	0.47	-0.26	0.20	-0.6
40	2004	0.85	-1.09	0.20	-0.4
41	2004	0.75	0.07	0.20	0.1
43	2004	0.79	1.02	0.17	-0.5
46	2004	0.86	-1.13	0.20	-0.5
47	2004	1.39	2.34	0.34	-0.9
48	2004	0.99	1.82	0.27	2.4
91	2004	0.88	-1.58	0.20	-0.7
92	2004	0.58	-0.77	0.20	2.7
93	2005	0.94	-0.07	0.20	0.5
94	2004	0.55	-1.11	0.20	0.5
95	2004	0.80	-1.43	0.20	0.6
96	2005	0.98	-0.24	0.24	0.3
99	2004	0.50	0.62	0.20	0.8
101	2004	0.67	0.49	0.18	-1.1
102	2004	0.95	0.76	0.18	0.3
103	2004	0.81	-1.02	0.20	0.3
104	2004	0.87	-0.03	0.35	0.7
105	2007	0.56	0.06	0.20	-0.3

continued

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Table 97. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Spanish Reading (Concluded)

Item	Source Year	a	b	c	Fit-Z
106	2004	1.09	1.37	0.18	-0.2
107	2004	1.08	0.59	0.24	-0.2
109	2004	0.50	-0.55	0.20	0.1
110	2004	0.51	0.50	0.20	-0.3
111	2004	0.96	-0.50	0.21	1.3
112	2004	0.48	0.09	0.20	1.1
113	2004	0.32	-1.53	0.20	1.7
114	2004	0.70	-0.31	0.21	-1.1
115	2004	0.82	0.19	0.24	-0.3

2004 pre-equated M1= 33.6050, M2= 534.8632, N=523, Critical Z=1.39
2005 pre-equated M1= 39.5116, M2= 550.2315, N=489, Critical Z=1.30
2007 pre-equated M1= 36.1958; M2= 514.4683, N=264, Critical Z=0.70

Table 98. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Spanish Reading

Item	Source Year	f	g1	g2	g3	g4	Fit-Z
13	2004	0.57	-0.60	-0.85	0.97		0.1
14	2004	0.44	0.17	2.84			0.7
29	2004	0.92	-1.39	-0.76	-1.82		-2.0
31	2007	1.13	1.92	1.17			-1.1
33	2004	0.51	-0.10	0.50	0.59		1.2
34	2004	0.82	-0.60	-0.16	-0.21		1.3
42	2004	0.71	0.29	0.84			-0.3
44	2004	0.53	-0.16	-0.41			1.7
45	2007	0.68	0.24	0.39	1.66		-0.7
97	2004	0.51	-0.50	0.36			-0.7
98	2004	0.59	-0.40	0.16	0.37		-1.1
100	2004	0.74	-0.30	0.90			-1.7
108	2004	0.74	-0.47	-1.38			0.5
116	2004	0.45	0.79	-1.94	1.37		1.4

2004 pre-equated M1= 33.6050, M2= 534.8632, N=523, Critical Z=1.39
2007 pre-equated M1= 36.1958; M2= 514.4683, N=264, Critical Z=0.70

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Table 99. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Writing

Item	a	b	c	Fit-Z
53	0.59010	-2.1613	0.2000	9.15
54	0.81168	-1.7969	0.2000	2.57
55	0.69041	0.0282	0.2477	5.29
56	0.46679	-1.9994	0.2000	34.85
57	0.77633	-0.2517	0.2554	2.93
58	0.79706	-1.8216	0.2000	2.98
59	0.63016	-2.8244	0.2000	7.37
60	0.57901	-2.1566	0.2000	17.52
61	0.71342	0.9107	0.1878	8.42
62	0.81375	-1.8542	0.1089	10.96
63	0.77685	-2.0238	0.2000	0.92
64	0.75168	-2.1943	0.2000	4.19
65	0.55669	-1.5609	0.1510	1.15
66	0.91648	0.0119	0.2435	8.81
67	1.12398	-0.8990	0.3073	8.78
68	0.61731	-1.8184	0.2000	2.66
69	0.63011	0.2391	0.2161	0.99
70	0.69887	-0.1021	0.1364	1.06
71	1.18197	-0.6712	0.1687	11.50
72	0.60641	-2.3803	0.0000	23.99
74	0.58180	0.8882	0.2440	5.18
75	1.07031	-0.0084	0.2175	9.51
76	0.87572	-0.0514	0.1757	6.23
77	0.70817	0.5704	0.1780	5.56
78	0.64133	-1.7950	0.2025	57.58
79	0.88041	-0.3154	0.2711	2.28
80	1.17254	-0.8130	0.2865	12.47
81	1.00261	-1.9098	0.1470	22.02
82	1.17520	-0.2420	0.1612	12.50
83	0.73974	-1.6456	0.2000	6.59
84	0.84879	-0.5867	0.1048	4.85
85	0.45068	1.5103	0.1980	28.69
86	0.96708	-1.2546	0.1233	9.06
87	1.29940	-0.9685	0.1470	7.90
88	1.23075	-0.4557	0.4624	6.67
89	1.28366	-0.6904	0.2788	11.33
90	0.47381	2.0076	0.2000	64.10
91	0.87111	-0.7688	0.1840	5.74
92	0.86264	0.7195	0.3877	6.25
93	0.91362	-0.7034	0.2213	0.53

N=61008 M1=46.0005 M2=487.0355 Critical Z=162.69

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Table 100. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Writing

Item	f	g1	g2	g3	g4	Fit-Z
1	0.80443	-4.6327	.	.	.	2.91
2A	1.05872	-0.5726	.	.	.	6.46
2B	0.73795	-0.5507	.	.	.	5.71
2C	1.08723	-1.5341	.	.	.	4.97
2D	1.11130	-1.2611	.	.	.	7.41
2E	1.54405	-3.8393	.	.	.	4.52
2F	1.49701	-3.0439	.	.	.	26.33
3A	1.00501	-2.6462	-1.7096	-0.0656	1.5596	200.12
3B	1.29329	-5.6751	-2.7433	-0.1540	1.9077	64.39
3C	1.53807	-6.2842	-2.7510	.	.	27.72
23	0.63659	-0.9811	-2.0365	0.1890	1.9081	201.74
73	0.74639	-2.3323	-2.9398	-0.0339	1.9886	100.38
94	0.80116	-1.9697	-2.2710	0.3245	2.2210	123.37

N=61008 M1=46.0005 M2=487.0355 Critical Z=162.69

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Table 101. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Spanish Writing

Item	Source Year	a	b	c	Fit-Z
49	2004	0.63	-1.77	0.20	0.0
50	2004	0.77	-1.13	0.20	-0.4
51	2004	0.61	-1.44	0.20	0.5
52	2004	0.41	1.19	0.20	-0.1
53	2004	0.73	-2.73	0.20	-1.3
54	2004	0.55	-0.15	0.20	0.9
55	2005	0.56	-1.26	0.20	1.4
56	2004	0.56	-1.38	0.20	1.0
57	2004	0.67	0.91	0.19	-0.7
58	2004	1.01	0.64	0.31	0.9
59	2004	0.65	0.81	0.20	-0.5
60	2004	0.49	0.23	0.20	-0.7
61	2004	1.10	0.64	0.30	-0.2
62	2004	0.59	2.15	0.19	-0.8
64	2004	0.87	0.97	0.24	-0.2
65	2004	1.09	-0.58	0.23	-1.5
66	2004	1.12	0.33	0.35	0.5
67	2004	1.21	0.10	0.26	-0.7
68	2004	1.28	-0.24	0.20	-0.3
69	2004	1.01	0.07	0.19	0.4
70	2004	0.91	0.74	0.20	-0.5
71	2004	0.56	0.45	0.20	2.2
72	2004	0.64	0.31	0.20	-0.1
73	2004	0.63	1.09	0.22	-1.1
74	2004	0.96	-0.16	0.30	3.7
75	2004	0.37	1.69	0.21	-0.5
76	2004	0.63	0.98	0.20	-0.3
77	2004	0.66	1.31	0.23	-1.1
78	2004	1.22	1.17	0.22	-0.8
79	2004	0.23	-0.69	0.20	1.8
80	2004	1.64	1.21	0.26	-1.0
81	2005	0.92	0.48	0.30	-0.9
82	2004	1.27	0.63	0.18	0.3
83	2005	0.52	0.21	0.19	0.8
84	2005	1.02	0.50	0.20	-0.6
85	2004	1.10	0.81	0.19	1.5
86	2004	0.32	2.81	0.20	-0.8
87	2004	0.95	1.37	0.19	-0.1
88	2004	0.77	-0.23	0.20	-0.6
89	2004	0.72	0.65	0.19	-0.5

2004 pre-equated M1= 38.1156, M2= 519.2253, N=526, Critical Z=1.40
2005 pre-equated M1= 36.9687, M2= 524.4168, N=490, Critical Z=1.31

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Table 102. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Spanish Writing

Item	Source Year	Part	f	g1	g2	g3	g4	Fit-Z
1	2005		0.44	-3.42				-1.7
2	2002	A	1.40	-2.79				-0.9
2	2002	B	1.11	-0.58				-0.2
2	2002	C	0.85	-1.11				-0.1
2	2002	D	0.54	-0.75				-0.1
2	2002	E	1.21	-0.81				0.2
2	2002	F	1.25	0.74				-0.5
3	2005	A	0.66	-0.06	-1.80	-0.33	2.52	1.6
3	2005	B	1.09	-3.73	-2.60	-0.00	3.15	-1.2
3	2005	C	1.14	-4.33	1.14			1.0
25	2005		0.57	0.21	-1.43	0.08	1.90	1.2
63	2007		0.72	-1.65	-1.25	0.99	2.18	-2.6
90	2005		0.46	0.35	-2.18	-0.20	1.00	-1.1

2002 pre-equated M1= 39.9142, M2= 522.7280, N=1,001, Critical Z=2.67
2005 pre-equated M1= 36.9687, M2= 524.4168, N=490, Critical Z=1.31
2007 pre-equated M1= 33.0014; M2= 508.4550, N=264, Critical Z=0.70

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Table 103. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Mathematics

Item	a	b	c	Fit-Z
1	0.82743	-0.4720	0.0828	13.50
2	0.97215	-1.3100	0.1213	-0.33
3	0.81442	0.4809	0.2887	7.88
4	0.94636	-0.6373	0.3951	9.54
6	1.01443	-2.0308	0.1787	2.74
7	0.69774	-2.8036	0.2000	9.24
8	0.88743	-1.1230	0.3161	4.69
9	0.70509	-2.3557	0.2000	9.39
10	0.91280	-0.4554	0.1563	0.48
12	0.70016	-3.3588	0.2000	9.56
13	0.40991	-2.1363	0.1650	4.56
14	0.84449	0.2714	0.2326	1.60
16	0.82964	-1.0246	0.1925	3.01
17	0.71801	-0.4687	0.1747	88.57
19	0.49095	-3.0211	0.2000	7.48
20	0.90980	-0.0502	0.1925	1.95
21	1.00640	0.0488	0.1322	8.17
22	0.89311	1.1409	0.0750	9.47
24	0.71081	-0.8240	0.0414	3.45
25	0.91070	-0.8262	0.1624	4.54
26	0.64546	-4.1089	0.2000	3.12
27	0.89821	-0.8739	0.2164	15.42
29	0.57336	-2.4559	0.2000	0.70
31	0.52403	-2.0162	0.2000	0.02
32	0.76732	-1.5775	0.1747	34.49
34	0.68641	0.1146	0.1051	1.91
35	0.70058	-1.2679	0.0562	12.97
36	0.68398	-2.7400	0.2000	11.84
37	1.12238	-0.6738	0.1697	17.04
38	0.57829	-0.3920	0.2406	5.05
39	1.27173	0.8909	0.2008	59.81
41	0.43647	-1.6088	0.2000	11.61
42	0.96133	-1.5933	0.1273	2.60
43	0.41434	-3.4075	0.2000	11.06
44	0.64955	-2.5076	0.2000	10.00
45	0.65865	-2.6898	0.2000	13.04
47	0.79133	-2.9279	0.2000	1.16
48	0.53368	-2.5136	0.2000	10.04
50	0.64258	-3.6971	0.2000	6.82
51	0.68888	-1.0115	0.2590	6.23
52	0.81728	-1.3172	0.2159	2.42
53	0.82877	-2.2855	0.2000	9.00
54	0.56589	-2.4764	0.2000	2.29
56	1.05575	-1.4318	0.2445	4.62
57	0.65247	-0.8155	0.2362	4.24
58	0.90093	-1.0002	0.0946	-0.77
59	0.94476	-2.3892	0.2000	2.25

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Table 103. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Mathematics (Concluded)

Item	a	b	c	Fit-Z
61	0.89138	-0.6198	0.1471	-0.48
62	0.45773	-4.1765	0.2000	9.47
63	1.19849	-0.6879	0.1098	4.72
64	0.71231	-0.6825	0.1457	1.53
66	0.57110	-0.4942	0.1161	4.41
67	0.44569	-2.8247	0.2000	39.36
68	1.04834	-0.0401	0.2227	2.45

N=55169 M1=65.8876 M2=509.9313 Critical Z=147.12

Table 104. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Mathematics

Item	f	g1	g2	g3	g4	Fit-Z
5	0.90989	-1.2611	-1.2352	.	.	56.19
11	1.00253	-0.8197	0.6410	.	.	13.20
15	0.52737	-2.3700	-1.5859	-0.3179	.	14.33
18	0.81892	-2.5911	-0.4240	0.0424	.	59.58
23	1.00814	-2.8518	-0.0897	0.2837	1.0612	31.87
28	0.93613	0.9300	-0.5438	1.9882	.	103.38
30	1.15010	-1.6741	-1.4724	.	.	27.57
33	1.56859	-0.9487	1.0960	.	.	41.00
40	0.95384	0.2872	0.4654	0.5474	.	22.46
46	0.78423	-1.4808	-1.1552	-0.6650	-0.1094	96.41
49	0.75515	-2.6303	-0.5845	.	.	31.89
55	0.83122	-4.0220	-0.5382	-0.7019	.	37.47
60	0.67076	-2.4174	-1.6178	.	.	12.57
65	0.79240	-0.6621	-0.1568	-0.5030	.	100.67
69	0.75715	-1.3790	-1.1255	-0.4488	0.1678	31.07

N=55169 M1=65.8876 M2=509.9313 Critical Z=147.12

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Table 105. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Reading

Item	a	b	c	Fit-Z
5	0.67439	-1.7212	0.2000	11.28
7	1.35095	-0.0569	0.2859	12.70
8	1.20335	1.4915	0.2025	26.66
9	0.54286	0.2844	0.1510	31.94
13	1.21173	0.2148	0.2157	21.88
14	0.98598	-1.9396	0.2000	22.42
15	0.89068	-0.2048	0.2109	15.77
16	1.10264	-0.7661	0.4532	11.98
17	0.79360	-0.5103	0.1870	1.19
18	0.29604	0.3748	0.2000	143.07
19	0.61558	0.4371	0.1945	6.09
20	1.23037	0.1155	0.2718	16.81
21	0.86307	-0.7866	0.1616	2.98
22	1.06715	0.1902	0.1667	10.45
24	1.22866	-0.4976	0.1453	5.26
25	0.98858	1.2089	0.3278	8.37
26	0.39084	-0.6420	0.2000	72.45
27	0.40072	0.3141	0.2000	11.91
29	0.53875	-1.1298	0.1933	31.35
30	0.97484	-1.4078	0.1785	16.62
31	0.73302	-1.2029	0.0639	45.95
32	0.65403	0.1939	0.2847	3.58
33	0.73752	-1.1671	0.1276	4.71
34	0.82326	-1.3213	0.1575	5.89
36	0.31689	1.0643	0.0764	3.70
37	0.59441	-1.2036	0.0857	23.27
38	0.75207	-0.9117	0.2000	-0.39
39	1.12450	-1.3352	0.1904	1.13
40	0.52203	0.2111	0.1857	8.72
41	0.78404	0.1906	0.2209	4.46
42	0.98425	0.5005	0.3990	6.27
44	0.55785	0.0779	0.2010	1.08
45	0.89081	-1.5799	0.0803	4.02
46	0.81880	0.0282	0.2484	23.20
47	1.07619	-1.9073	0.2000	10.53
49	0.83020	1.8860	0.1927	5.96
50	0.87129	2.0815	0.3096	12.81
51	0.60501	0.1561	0.2400	2.80
52	0.25482	0.6672	0.2000	7.62
97	1.06995	-1.9401	0.1023	14.02
98	0.22822	1.6228	0.2000	13.46
99	0.50809	-1.1852	0.1933	14.38
100	0.60545	-0.8137	0.2000	21.40
101	0.88428	-0.4493	0.2855	7.50
102	0.66868	-1.7785	0.0876	18.24
103	1.29134	-0.5809	0.2888	6.43
104	1.39862	-1.1034	0.1956	4.52

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Table 105. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Reading (Concluded)

Item	a	b	c	Fit-Z
107	1.06033	-1.1379	0.2622	13.93
108	1.22983	-0.3620	0.2893	9.95
109	0.86017	-0.1200	0.1272	6.14
110	1.09961	-1.1105	0.2553	2.19
111	0.92977	-1.1026	0.1263	2.80
112	1.11238	-0.9162	0.1993	27.12
113	0.74700	0.4584	0.2545	4.06
114	0.78177	0.2286	0.1176	27.41
115	1.20410	-0.7889	0.1414	13.25

N=60009 M1=56.933 M2=618.6416 Critical Z=160.02

Table 106. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Reading

Item	f	g1	g2	g3	g4	Fit-Z
4	0.73254	0.4984	0.5312	.	.	30.85
6	0.65701	-1.4668	1.3926	1.2971	.	51.83
10	0.41296	-0.0774	0.4522	0.2150	.	33.96
11	0.89656	-0.1181	-1.2022	0.6026	.	60.50
12	0.83060	-1.2859	0.5529	1.5591	.	209.32
23	0.70740	-0.6276	1.9064	.	.	21.43
28	0.93470	-0.3412	2.1897	.	.	11.65
35	0.36620	-0.5081	2.3397	-0.1314	.	41.74
43	0.54779	-1.4386	0.6259	0.9501	.	50.32
48	0.66029	-0.8303	-1.1253	.	.	32.82
95	1.09079	0.5549	-2.0719	.	.	38.81
96	0.90826	-1.2358	-0.4741	.	.	52.90
105	1.18649	-1.0627	-1.1459	.	.	6.71
106	1.16784	-0.5504	-0.1345	2.8503	.	99.24

N=60009 M1=56.933 M2=618.6416 Critical Z=160.02

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Table 107. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Writing

Item	a	b	c	Fit-Z
53	0.62259	0.4592	0.1574	1.97
54	0.65486	0.2154	0.2143	4.54
55	0.62487	-2.4576	0.2000	0.78
56	0.85998	-1.9846	0.2000	3.69
57	1.02209	-1.0636	0.2235	13.58
58	0.93047	-1.4229	0.3731	17.30
59	0.40258	-2.2660	0.2000	13.52
60	1.03118	-1.4516	0.3134	12.75
61	0.63468	-0.6991	0.0993	0.80
62	0.66196	0.3984	0.1539	3.78
63	1.16954	-0.9660	0.2329	4.19
65	0.69593	-0.4882	0.2466	0.56
66	0.99525	-1.4497	0.1317	10.72
67	1.06897	-1.5116	0.2283	11.70
68	0.88462	0.3453	0.1989	8.56
69	0.72984	-1.5996	0.2000	3.60
70	0.87419	-0.9381	0.2523	0.89
71	0.73954	-2.1239	0.2000	15.32
72	0.76834	-1.0171	0.1048	7.34
73	0.96915	-0.2275	0.2054	7.94
74	0.72525	-1.6608	0.1059	5.27
75	0.34058	-0.2350	0.1621	3.77
76	1.31452	-1.0488	0.1965	21.97
77	1.22934	-0.6337	0.1605	31.23
78	1.02962	-0.6762	0.1496	29.67
79	1.03373	-1.0156	0.1483	26.43
80	0.56308	2.1461	0.1016	12.77
81	1.01155	-1.4834	0.1829	2.53
82	1.06004	-0.5543	0.2119	7.12
83	0.60811	0.8570	0.1584	4.79
84	1.36114	-0.6736	0.2885	9.95
85	0.69908	-0.0816	0.2144	1.95
86	0.48384	-0.6798	0.1069	38.52
87	0.76005	0.7453	0.3030	7.05
88	0.65314	-0.8645	0.0524	54.67
89	0.67103	0.0622	0.2439	17.01
90	0.43175	0.9372	0.1410	3.19
91	0.80559	-1.2578	0.2000	40.72
92	1.22709	-0.9982	0.2473	10.57
93	1.27949	-0.4443	0.2372	18.02

N=59681 M1=50.1621 M2=507.7983 Critical Z=159.15

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Table 108. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Writing

Item	f	g1	g2	g3	g4	Fit-Z
1	1.01211	-5.0330	.	.	.	5.08
2A	0.98865	-1.5155	.	.	.	2.05
2B	1.09557	-2.6079	.	.	.	1.67
2C	1.44211	-3.6472	.	.	.	9.58
2D	0.65140	-2.1810	.	.	.	148.58
2E	1.26472	0.2782	.	.	.	3.05
2F	1.30855	-1.1036	.	.	.	4.39
3A	1.09011	-2.4477	-2.7762	-0.0560	2.1310	189.98
3B	1.28355	-5.5421	-3.0267	0.0184	2.2741	63.24
3C	1.63848	-6.3450	-3.0062	.	.	8.42
116	0.92979	-2.8192	-2.9729	-0.3472	1.9193	66.20
64	0.82104	-2.6625	-3.1262	-0.9452	1.8015	63.35
94	0.84386	-1.8812	-2.7263	0.0306	2.2899	237.07

M1=50.1621 M2=507.7983 N=59681 Critical Z=159.15

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Table 109. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Mathematics

Item	a	b	c	Fit-Z
1	0.71907	-0.5814	0.3579	9.36
2	1.02963	0.1495	0.1358	5.09
3	0.43545	-1.4898	0.2000	11.53
4	0.73196	-0.6540	0.1391	4.88
6	0.95552	-0.1271	0.1888	0.61
7	0.69070	-0.7881	0.2000	7.21
8	0.88491	-0.6552	0.1868	2.56
9	0.55944	-2.6222	0.2000	39.25
11	0.84084	-0.7460	0.2141	5.32
12	0.61696	-2.4222	0.2000	2.64
13	1.09818	-0.0955	0.1095	7.62
14	1.13672	0.4503	0.1757	13.30
15	1.03874	-0.2950	0.2362	3.43
16	0.69728	-1.9197	0.0950	1.38
18	0.78807	-1.0884	0.0631	1.67
19	0.89752	1.8729	0.3609	10.31
21	0.89878	0.1137	0.3136	1.23
22	0.34822	-0.4616	0.2000	20.39
24	1.17171	-0.1428	0.1938	2.65
25	0.65033	-1.6213	0.1782	37.82
26	0.56842	-0.2480	0.1734	0.89
28	1.03734	-1.1747	0.2444	3.84
29	0.40834	1.0413	0.0510	5.24
30	0.76710	-0.5187	0.1505	53.58
31	1.30980	0.7213	0.1490	7.74
32	0.61954	-1.8951	0.2000	7.34
34	0.48037	-1.4567	0.1189	3.12
36	0.74948	-0.1684	0.2414	15.77
37	1.13279	0.0348	0.0428	5.46
38	0.64779	0.1002	0.1726	0.08
40	0.91382	-2.1463	0.2000	3.20
41	0.48330	-0.7042	0.2000	7.46
42	0.57950	-2.7803	0.2000	6.00
43	0.67534	-0.7587	0.0859	1.89
44	0.49984	-1.4059	0.2000	2.47
45	0.48832	-2.4869	0.2000	4.50
47	0.63288	-2.0787	0.2000	0.05
48	0.51677	-1.4864	0.2010	2.23
50	0.59930	-2.5214	0.2000	2.67
51	0.79314	-1.9740	0.2000	5.04
52	1.02336	-0.2286	0.2417	11.43
53	0.50435	-3.2406	0.2000	3.52
55	0.88096	0.1812	0.3047	2.34
56	0.84118	-1.2172	0.0921	0.25
57	1.06273	-0.3334	0.2410	0.96
58	1.42697	0.6662	0.3235	15.91
59	0.64767	-1.5681	0.1782	4.54

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Table 109. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Mathematics (Concluded)

Item	a	b	c	Fit-Z
61	1.04827	0.5217	0.2010	9.76
62	0.63183	-0.8537	0.2000	2.61
63	0.53988	-1.3978	0.0914	1.32
64	1.11612	-1.5640	0.3814	1.27
65	0.54661	-2.8921	0.2000	14.48
67	0.71227	-1.3172	0.0804	2.12
68	1.41571	0.8642	0.0908	25.62

N=54499 M1=60.3803 M2=533.9045 Critical Z=145.33

Table 110. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Mathematics

Item	f	g1	g2	g3	g4	Fit-Z
5	1.11042	-2.4706	-0.1247	.	.	39.25
10	0.70042	-3.2450	-0.4280	-0.3003	.	17.52
17	0.95395	-1.4529	-1.3243	.	.	37.13
20	1.17604	-0.1993	0.4864	1.0018	.	21.45
23	0.79374	-2.0392	-1.5819	-1.2444	-0.5638	86.37
27	0.91863	0.1267	-0.4682	.	.	166.63
33	0.72486	-0.5453	0.9867	0.4876	.	168.61
35	0.98135	-1.0863	-2.4824	.	.	168.83
39	0.58044	-0.4019	0.3161	0.8343	.	189.74
46	1.10941	-3.1832	-1.3140	0.4351	0.3895	11.81
49	1.10526	0.0481	-0.9384	.	.	13.60
54	0.76075	-1.7471	-0.2079	-0.9785	.	25.36
60	0.77696	-1.3458	-0.6076	.	.	154.74
66	0.68823	-0.9244	-0.4202	-0.9756	.	164.12
69	0.75894	-2.8506	-0.8809	-0.3084	-0.4569	25.01

N=54499 M1=60.3803 M2=533.9045 Critical Z=145.33

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Table 111. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Science

Item	a	b	c	Fit-Z
1	0.46074	-2.0794	0.2000	3.01
2	0.49863	1.3460	0.0390	8.47
3	0.82972	0.5732	0.2133	5.92
4	0.79766	0.2743	0.3471	3.27
5	0.64580	0.3441	0.2796	4.09
6	0.44922	-1.5378	0.2000	17.93
7	0.85351	-2.1503	0.2000	9.27
9	0.61043	1.6809	0.2666	1.20
10	1.00508	-1.3257	0.0928	3.42
11	0.49111	-1.0943	0.3479	9.66
12	1.07431	-2.4740	0.2000	6.63
13	1.01123	1.2323	0.1042	104.43
14	0.22264	-0.2950	0.2000	2.13
15	1.01230	-0.8664	0.1774	4.33
16	0.84912	1.9550	0.0954	31.34
17	0.81805	1.9507	0.1577	7.39
18	0.54860	-0.7409	0.2000	5.79
19	1.03297	-0.4610	0.1883	2.67
20	0.79311	0.6689	0.3071	5.83
26	0.59004	-2.3116	0.2000	4.33
27	0.85277	-0.9919	0.3617	4.94
28	0.52392	0.0320	0.2000	2.60
30	0.50014	-0.7645	0.2000	5.59
31	0.96251	-0.3624	0.1253	23.52
32	0.44615	-0.6675	0.2000	14.60
33	0.58657	-1.4524	0.2000	10.90
35	0.32710	-3.4292	0.2000	16.30
36	0.64064	0.9543	0.1464	2.82
38	0.28663	-5.4923	0.2000	20.18
39	0.28571	1.0429	0.2000	8.25
40	0.92543	-3.0537	0.2000	7.53
41	0.85172	-1.5149	0.2673	1.96
43	0.70461	-1.2430	0.0771	1.09
44	0.60575	-1.0746	0.1678	0.36
45	0.68794	-0.8732	0.1547	0.61
47	0.88157	0.4634	0.2835	5.65
48	1.04567	0.0365	0.2736	6.87
50	1.33468	-0.9546	0.2169	7.01
51	0.58095	-1.8152	0.2000	13.40
52	0.96482	-1.6202	0.2000	2.49
53	0.74483	-0.1680	0.4981	15.03
54	0.60998	-1.1647	0.1102	3.47
56	0.55040	-0.0518	0.2360	29.86
57	0.81258	-0.0257	0.1658	5.70
59	0.32260	-4.3004	0.2000	32.09
60	1.05251	0.9175	0.2861	8.70
61	0.42809	-0.4777	0.0963	1.39
63	0.61365	-0.7553	0.0549	8.54

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Table 111. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Science (Concluded)

Item	a	b	c	Fit-Z
64	1.13682	0.7107	0.2642	18.31
65	0.68859	-2.6312	0.2000	5.97
67	0.95673	-1.0867	0.2434	0.45
68	0.54001	0.0102	0.2993	5.65
69	0.89620	-1.1729	0.2945	2.58
70	0.51156	-0.4319	0.2001	42.90
72	0.98578	-1.9089	0.2000	8.13
73	0.60754	-0.2824	0.0852	1.24
74	0.70308	-0.4886	0.2035	24.38

N=54482 M1=54.7387 M2=508.2763 Critical Z=145.29

Table 112. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Science

Item	f	g1	g2	g3	g4	Fit-Z
8	0.60932	2.6196	-0.3230	.	.	12.11
21	0.29590	-1.0676	.	.	.	32.22
22	0.84085	0.2887	.	.	.	6.31
23	0.89128	-1.2448	0.3946	.	.	23.90
24	1.06203	-1.5925	0.0744	.	.	69.03
25	0.97569	-0.9538	.	.	.	10.20
29	0.54483	0.5693	0.2366	.	.	27.89
34	0.69322	-0.0179	0.5589	.	.	8.97
37	0.84863	0.4705	0.7673	.	.	66.23
42	1.21149	-0.1737	.	.	.	15.29
46	1.07422	-1.4461	0.0494	.	.	31.58
49	1.08761	-1.1272	2.6881	.	.	44.76
55	0.79440	-2.3029	-0.8083	.	.	8.47
58	0.67367	-0.1734	.	.	.	2.87
62	0.57916	-2.1789	0.9338	.	.	112.47
66	0.79334	-0.2268	1.4416	.	.	170.99
71	0.77354	-1.0750	1.3177	.	.	42.90
75	0.74439	-1.8100	-0.8115	.	.	16.55

N=54482 M1=54.7387 M2=508.2763 Critical Z=145.29

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Table 113. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Reading

Item	a	b	c	Fit-Z
5	0.64589	-2.2375	0.2000	7.18
7	1.32867	-0.4386	0.3246	9.76
8	0.97682	1.1960	0.2029	22.60
9	0.76421	1.1618	0.4092	1.20
10	0.50693	-0.1683	0.1321	6.91
13	1.00702	0.2869	0.2360	11.70
14	0.82498	-0.2670	0.1862	2.50
15	0.83795	-1.1300	0.1639	2.37
16	0.60864	-1.5945	0.1975	35.25
17	0.78541	-2.1856	0.1975	13.06
19	0.94779	-1.3406	0.3259	-0.25
20	0.89262	-1.2102	0.2000	28.42
21	0.56532	-1.6908	0.0899	20.70
22	0.64324	-1.6239	0.2000	1.71
23	0.54993	-0.4569	0.0346	40.32
25	1.19964	-0.5378	0.1016	9.93
26	1.07617	-2.0120	0.1670	7.15
28	0.38459	-0.3506	0.1975	4.44
30	0.30928	-1.3068	0.2000	53.82
31	0.52615	-1.5921	0.2000	38.55
33	0.79242	-0.5435	0.2545	11.91
34	0.63161	-1.6378	0.0774	0.92
35	0.83895	-1.5922	0.2000	12.60
37	1.08256	0.2860	0.4070	6.27
38	0.85378	0.1040	0.2790	8.48
39	0.75106	0.2370	0.2193	7.29
40	0.47478	-1.8273	0.0000	29.20
41	0.82761	-0.0582	0.1883	7.50
42	0.96850	0.5725	0.2508	12.34
43	0.89870	0.2609	0.2692	13.10
44	1.06481	-0.5995	0.2806	7.61
45	1.15710	-0.1153	0.2269	8.38
46	1.12181	-0.7495	0.1669	3.03
47	0.82090	-0.5211	0.2614	5.12
48	0.86196	-1.6568	0.2033	12.92
49	1.41378	-1.6254	0.2155	19.42
50	1.07650	-2.2260	0.0911	15.64
95	0.43034	-0.6275	0.2000	25.42
96	0.80031	0.3264	0.2845	2.91
97	0.91235	0.5188	0.2729	14.69
98	0.57824	-1.5251	0.1975	21.56
99	1.64152	-1.1290	0.2392	7.95
100	0.45764	0.3906	0.0747	0.80
101	1.07129	-1.4764	0.2093	8.32
102	0.69377	0.6592	0.1860	30.10
103	0.61328	-1.7914	0.2000	30.59
104	0.97661	-2.5528	0.2000	15.36

continued

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Table 113. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Reading (Concluded)

Item	a	b	c	Fit-Z
105	0.78624	-0.5592	0.2372	2.83
107	1.11137	0.5948	0.2384	8.72
108	1.07299	1.0215	0.3685	8.06
109	0.84376	-0.1302	0.3237	1.44
112	0.77428	-1.3413	0.1115	1.73
113	1.20545	0.2096	0.2651	10.09
114	1.51008	-0.6480	0.1918	16.56
115	1.18516	0.1687	0.3512	9.60
116	0.87883	-2.0033	0.0748	12.30

N=58983 M1=56.37 M2=639.5593 Critical Z=157.29

Table 114. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Reading

Item	f	g1	g2	g3	g4	Fit-Z
4	0.68088	0.2214	0.2995	.	.	38.45
6	0.55455	-1.6164	1.0112	0.7089	.	41.41
11	0.52802	0.3411	-0.1407	0.9966	.	64.50
12	0.54904	1.0883	-2.2389	-0.9183	.	211.12
18	0.86556	-0.9569	0.2570	.	.	14.15
24	0.83521	-0.3988	-0.4125	.	.	19.76
29	1.01130	-0.4296	1.8130	.	.	39.45
32	0.73676	1.1828	0.3893	1.6423	.	50.85
36	0.68608	-0.2041	0.0116	.	.	47.23
93	0.69175	-1.0955	0.1252	0.5742	.	60.79
94	1.07265	-0.6600	-0.7082	.	.	21.16
106	0.56984	-0.8328	-0.0048	0.7218	1.4054	5.28
110	1.17550	-0.1103	1.2713	.	.	22.94
111	0.82655	-0.7279	2.0832	.	.	18.70

N=58983 M1=56.37 M2=639.5593 Critical Z=157.29

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Table 115. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Writing

Item	a	b	c	Fit-Z
51	0.91836	-1.5281	0.1993	9.54
52	0.47860	-2.5127	0.2000	12.15
53	1.02384	-0.8362	0.3312	9.20
54	0.76448	-1.7858	0.1597	1.31
55	1.10500	-1.7987	0.2000	16.20
56	1.00262	-1.3759	0.1163	17.54
57	0.43208	0.4243	0.0613	4.00
58	0.55914	-1.4031	0.2000	62.31
59	0.74213	0.7412	0.2250	20.74
60	0.33078	-0.7380	0.2000	5.27
61	1.03260	-0.6730	0.1568	8.83
62	1.16316	-1.6509	0.1895	10.05
63	0.79011	0.7595	0.2718	4.41
64	0.79751	-1.6432	0.2000	2.23
65	1.16580	-0.9772	0.1957	7.62
66	1.26982	-1.3138	0.1573	14.49
67	1.45763	-0.4015	0.1741	21.22
68	1.42388	-0.3629	0.2528	19.17
69	1.13329	-1.0021	0.2490	3.99
70	0.78644	-0.6001	0.1384	1.94
71	1.12365	0.5246	0.3367	17.75
72	1.47654	-0.8720	0.2768	20.77
73	1.32434	-0.6922	0.2159	10.71
74	0.46640	-0.9723	0.0965	12.89
75	0.75504	-0.8491	0.2468	-0.66
76	0.53632	-0.5101	0.1612	3.69
78	0.56625	-0.1839	0.1861	69.19
79	0.30454	-1.4495	0.2000	5.21
80	0.60606	0.2003	0.1354	1.43
81	0.30571	-1.0485	0.0000	1.45
82	0.59999	-0.2749	0.2347	4.25
83	0.70523	-1.0183	0.0626	25.84
84	0.78715	-0.3133	0.2533	10.81
85	0.77536	-0.1695	0.2185	9.56
86	0.52310	-0.1718	0.0634	13.01
87	0.62497	0.1418	0.2576	11.07
88	1.14839	-0.9701	0.2268	6.09
89	0.48385	-0.1732	0.0998	11.09
90	0.96754	-0.8660	0.1500	36.73
91	1.53606	-1.2003	0.2451	9.88

N=58803 M1=55.2981 M2=527.5816 Critical Z=156.81

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Table 116. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Writing

Item	f	g1	g2	g3	g4	Fit-Z
1	1.11279	-5.4592	.	.	.	4.75
2A	0.79274	-1.0862	.	.	.	9.63
2B	1.08238	-0.6696	.	.	.	5.98
2C	0.73735	-1.4054	.	.	.	29.56
2D	1.13344	-1.3379	.	.	.	6.33
2E	0.81146	0.3300	.	.	.	11.71
2F	1.19628	-2.2337	.	.	.	20.22
3A	1.39387	-3.9858	-3.9547	-0.4213	2.8695	205.87
3B	1.55456	-6.1882	-3.8861	-0.1655	3.0066	46.42
3C	1.80791	-6.9044	-3.6230	.	.	7.14
27	0.58989	-0.6270	-2.5046	-0.3508	2.1417	250.52
77	0.79174	-2.3416	-2.9844	-0.6384	1.6316	91.33
92	0.83181	-1.4812	-3.1021	-0.3040	2.0561	233.71

N=58803 M1=55.2981 M2=527.5816 Critical Z=156.81

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Table 117. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Mathematics

Item	a	b	c	Fit-Z
1	0.72446	-2.1838	0.2135	35.57
2	0.90484	-1.4867	0.2135	16.97
3	0.92824	0.5456	0.2913	5.18
5	0.70663	-0.1856	0.2135	90.29
6	1.28262	-0.2894	0.2476	4.68
8	0.38044	-1.8361	0.2000	350.91
9	1.12997	0.5516	0.4109	35.71
10	0.60344	-1.8852	0.1044	-0.15
11	0.87172	0.2598	0.1757	2.69
12	0.56338	-0.1944	0.2135	42.86
14	0.52202	-3.1692	0.2000	2.62
15	1.03108	-0.1476	0.3392	2.97
17	1.27930	-0.1059	0.2060	4.96
18	1.32874	0.5111	0.1076	15.82
19	0.75380	0.1207	0.3116	23.67
21	1.14083	0.5375	0.1368	5.26
22	0.80299	0.4436	0.0352	5.34
24	0.83530	-2.0244	0.0670	6.24
25	0.83661	-0.9266	0.1622	47.53
26	0.77180	-0.1016	0.4992	10.17
27	1.14469	0.6356	0.1787	4.37
28	0.91156	-1.3971	0.3152	2.73
30	0.97821	-0.0349	0.2257	2.16
31	0.99592	-0.4089	0.1587	2.66
32	0.87482	-0.8819	0.3177	2.17
34	0.71681	-1.0787	0.2390	8.04
35	0.46211	-2.4241	0.2000	2.59
36	0.66962	-0.3905	0.1701	4.30
38	1.41367	1.5531	0.2935	61.97
39	1.23559	0.8633	0.4440	23.32
41	0.65516	-0.5574	0.0554	35.83
42	0.24857	0.4689	0.2639	6.79
44	0.90024	0.5773	0.2701	8.24
45	1.17147	0.3987	0.2095	32.05
47	1.06640	0.0669	0.2246	8.61
48	0.79796	-1.0577	0.0914	6.13
50	1.52944	-0.2573	0.3178	5.89
51	1.23935	0.5567	0.4495	10.98
52	0.43188	-3.5092	0.2000	23.21
53	0.94332	0.9296	0.4565	4.95
54	0.68291	0.8769	0.2204	-0.02
55	0.73934	-1.3252	0.2000	5.15
56	0.97180	-0.4956	0.2289	2.11
58	0.97405	-0.1361	0.3116	0.06
59	0.77333	-0.0224	0.1094	5.29

N=55768 M1=62.3487 M2=552.5822 Critical Z=148.71

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Table 118. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Mathematics

Item	Part	f	g1	g2	g3	g4	Fit-Z
4	0.74807	-2.8135	-1.6123	.	.	10.95	4
7	0.72702	-3.4102	-1.4892	-0.8924	.	10.15	7
13	1.29453	0.4100	0.8315	.	.	84.69	13
16	0.79848	-0.2778	1.2073	-1.3391	.	38.70	16
20	0.83613	-2.8933	-0.3586	0.3417	1.5925	22.54	20
23	0.77404	1.1057	-1.9007	.	.	24.73	23
29	0.61439	-0.6702	-0.0189	0.4172	.	192.90	29
33	0.79340	-0.7756	-0.7372	.	.	76.03	33
37	0.58654	-1.3080	-0.5156	-1.4422	.	123.17	37
40	0.79369	-1.4377	0.8149	1.6809	0.5796	309.57	40
43	0.92694	-0.4935	-1.7633	.	.	16.41	43
46	0.97423	-0.6394	-0.6862	.	.	207.92	46
49	0.74881	-1.0443	0.6749	-0.1494	.	208.76	49
57	0.81611	-0.9377	0.7359	2.2257	.	41.26	57
60	1.28173	-3.5052	-1.4386	-0.7061	0.8630	104.97	60

N=55768 M1=62.3487 M2=552.5822 Critical Z=148.71

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Table 119. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Reading

Item	a	b	c	Fit-Z
7	0.38447	-1.6816	0.2000	2.12
8	0.76885	-1.6671	0.1955	4.31
9	1.08065	-2.0571	0.1986	7.87
10	0.92419	-2.0164	0.2000	9.77
14	0.56885	-1.0237	0.1732	3.51
15	1.23269	-1.8031	0.2434	5.14
16	0.47531	-0.7851	0.1918	18.87
17	0.42790	1.6700	0.2479	5.04
18	1.08119	-0.3563	0.1659	16.16
19	0.74742	-0.3708	0.3361	10.30
20	0.78984	-0.6879	0.2007	3.17
21	1.34735	-0.4858	0.2892	14.56
22	0.40291	0.1077	0.1918	27.62
23	0.58869	-0.8929	0.1392	12.81
24	0.13107	1.8219	0.2000	9.73
26	0.94111	1.1411	0.1630	16.83
27	0.87932	-1.0955	0.2105	22.07
28	0.43099	-0.3744	0.0862	14.15
29	0.63627	0.1534	0.2233	7.55
30	0.72857	-1.1366	0.2842	14.43
31	0.43875	-2.3487	0.1918	11.01
32	0.75375	-0.0255	0.1992	12.16
33	0.73332	-0.6508	0.1162	2.39
35	0.69354	-1.3266	0.1918	101.68
36	0.89252	-2.1502	0.1582	7.32
38	1.16568	-1.2982	0.3560	0.84
39	0.28193	-0.5634	0.2000	119.53
41	1.14255	1.4347	0.2434	86.51
42	0.64978	-1.4230	0.2000	37.33
43	0.86974	-0.9977	0.3231	2.04
44	0.82662	-1.5829	0.1976	1.57
45	0.97332	-0.7963	0.2309	6.15
46	0.77766	-1.8590	0.0929	1.21
91	0.82906	1.1509	0.1689	39.70
92	0.51265	-0.8526	0.2105	18.12
93	0.83458	-0.7862	0.2049	8.53
94	0.59179	0.2885	0.1612	9.83
95	0.63829	-1.5541	0.2000	2.66
96	0.64682	-2.1573	0.2000	7.03
97	0.99077	-2.7289	0.2000	13.22
98	1.13778	0.6209	0.3906	19.34
100	0.83315	-0.7260	0.2307	2.37
101	1.23880	0.2772	0.2651	16.77
102	0.92376	-0.4705	0.3276	2.55
103	0.72151	-0.3527	0.3234	3.31
104	0.53932	-1.7373	0.1004	11.48

continued

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Table 119. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Reading (Concluded)

Item	a	b	c	Fit-Z
105	0.88853	-0.7227	0.3168	10.18
106	0.55511	-1.0827	0.2290	1.53
107	0.62462	-1.9108	0.1918	7.46
108	0.53657	-0.8322	0.1280	8.41
109	0.52533	-1.5304	0.1085	1.82
110	0.69523	-0.6728	0.1585	4.24
113	0.76124	-1.5264	0.1318	6.72
114	1.27494	0.0771	0.2848	15.93
115	1.08678	-0.3017	0.3338	15.38
116	0.99790	-2.0375	0.1266	6.59

N=58041 M1=54.6676 M2=651.1678 Critical Z=154.78

Table 120. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Reading

Item	f	g1	g2	g3	g4	Fit-Z
4	0.76090	-0.9945	-0.8708	-0.5046	.	25.31
5	0.52042	-1.4156	-0.8746	.	.	94.89
6	0.55726	-0.4298	0.7183	2.2490	.	154.58
11	0.69295	-0.8218	-1.1134	.	.	22.80
12	0.91058	-1.2734	0.7838	.	.	25.29
13	0.86245	-0.4664	-1.4947	.	.	69.75
25	0.86244	-2.1224	0.9056	1.6139	1.4148	121.73
34	0.68816	-0.0513	1.0486	.	.	22.71
37	0.72687	-1.9834	1.2419	.	.	33.02
40	0.70765	-0.5183	0.9162	.	.	27.59
90	0.57162	0.6080	0.4462	0.1014	.	130.83
99	0.52119	-0.9682	-0.1455	0.5526	1.3023	22.32
111	1.18823	-0.3615	1.2657	.	.	26.62
112	0.83309	-0.7356	2.0649	.	.	50.92

N=58041 M1=54.6676 M2=651.1678 Critical Z=154.78

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Table 121. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Writing

Item	a	b	c	Fit-Z
48	0.63672	-1.2910	0.2000	9.79
49	0.89355	0.2003	0.1587	6.88
50	0.75399	-1.9086	0.2241	12.20
51	0.92295	-1.5352	0.1098	2.17
52	1.24874	-0.5920	0.3026	11.76
53	0.64641	-0.2701	0.2337	5.75
54	0.35010	-0.3870	0.1210	10.32
55	0.99100	-1.4689	0.1153	10.46
56	0.99587	-1.5140	0.2791	7.24
57	0.96928	-1.0574	0.2445	3.30
58	0.96771	-1.1324	0.2345	1.81
59	0.98107	0.3395	0.1916	11.21
60	0.89436	-1.1307	0.1428	9.92
61	0.73538	-1.0267	0.1557	16.22
62	0.64968	-1.0639	0.1115	30.48
63	0.54407	-0.4213	0.4968	21.64
64	0.73750	0.2097	0.1745	1.06
65	0.65294	-0.7836	0.2000	2.94
66	0.73426	0.2385	0.1169	4.95
67	0.87798	-1.9354	0.0779	34.95
69	0.98582	-0.6877	0.1151	11.04
70	0.44938	-0.6498	0.2000	97.67
71	0.62195	-0.0241	0.1924	2.35
72	1.13732	-0.6421	0.2216	10.81
73	0.56627	-1.1073	0.2000	9.32
74	0.98503	0.8253	0.2523	11.51
75	0.90364	0.8348	0.3324	5.65
76	1.08705	0.6851	0.2096	22.34
77	0.84055	0.2106	0.3180	2.67
78	0.46605	0.4026	0.2000	8.72
79	0.53408	0.0242	0.0326	39.40
80	1.76471	-1.3460	0.3664	10.92
81	0.50612	-0.7628	0.1770	32.57
82	0.56511	-0.3960	0.1724	16.95
83	1.17893	-0.5006	0.1735	10.94
84	1.52535	-1.2989	0.2592	22.06
85	1.50914	-0.8855	0.1851	12.77
86	1.24861	-0.7704	0.2351	7.39
87	1.35421	-1.4173	0.2611	8.19
88	1.10716	-0.8957	0.1305	5.82

N=57851 M1=63.297 M2=557.9989 Critical Z=154.27

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Table 122. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Writing

Item	f	g1	g2	g3	g4	Fit-Z
1	0.96459	-5.0558	.	.	.	2.93
2A	1.20842	-3.1503	.	.	.	21.35
2B	1.25599	-2.6495	.	.	.	7.74
2C	0.96932	0.1754	.	.	.	17.89
2D	1.01115	1.5132	.	.	.	9.56
2E	0.71012	-2.6753	.	.	.	4.49
2F	0.83311	0.1890	.	.	.	181.51
3A	1.14551	-2.9701	-3.7105	-1.0777	1.9518	215.40
3B	1.25527	-5.1252	-3.7338	-0.7910	2.0254	19.00
3C	1.64577	-6.3306	-3.7871	.	.	10.67
47	0.93484	-2.9221	-3.6199	-0.5787	2.2535	45.11
68	0.86972	-2.5996	-3.4388	-0.0145	2.8740	72.79
89	0.83057	-1.9825	-3.2102	-0.2165	2.5523	141.74

N=57851 M1=63.297 M2=557.9989 Critical Z=154.27

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Table 123. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Mathematics

Item	a	b	c	Fit-Z
1	0.78994	-0.1099	0.2606	26.31
2	0.81327	-0.0770	0.1606	3.68
4	1.33569	0.4236	0.1055	14.86
5	0.61244	-0.2176	0.2606	0.28
6	1.23466	1.4560	0.3301	31.73
8	0.73806	1.1049	0.3581	3.71
9	1.00026	0.1853	0.1747	4.74
10	0.47166	-0.3879	0.0573	1.28
12	0.67552	-0.4799	0.2182	66.34
13	0.61630	1.6705	0.3160	3.92
15	1.32113	1.7216	0.1362	7.39
16	0.75326	-1.0784	0.0574	3.07
17	0.70019	1.0275	0.1078	7.39
18	0.09504	1.7804	0.2000	146.77
19	0.77763	-0.0270	0.3103	1.61
21	0.35089	1.6816	0.4439	12.38
22	1.50995	-0.4098	0.4832	5.49
23	1.21561	-0.1843	0.3266	2.95
24	0.79566	-2.1564	0.2000	15.54
26	0.72983	-1.3220	0.2000	7.43
27	0.96847	-0.0352	0.2133	5.07
28	1.06990	0.0944	0.3022	7.02
30	0.27575	-0.2582	0.2000	9.53
31	0.79608	0.4465	0.0693	16.79
32	1.19936	0.8731	0.1350	9.52
34	0.95976	0.2257	0.3313	7.53
36	1.15550	0.5884	0.2382	2.90
37	0.76767	1.4837	0.2608	17.74
38	0.38538	-0.0070	0.2438	4.05
39	1.40357	0.6525	0.1312	14.02
41	0.22293	0.5159	0.1597	5.41
42	1.37723	0.8106	0.4913	13.86
43	1.17407	0.4497	0.3474	1.04
44	0.94879	1.3563	0.1820	19.03
46	0.72764	-1.6260	0.1002	5.99
47	0.97736	-1.2875	0.0447	9.17
48	0.87904	-0.1094	0.4993	11.87
50	0.59455	0.4723	0.2386	2.46
52	0.70064	-0.3951	0.0699	8.01
53	0.60950	-1.5270	0.0926	3.60
54	0.78212	-0.0287	0.1689	16.82
56	1.47151	1.4039	0.2715	22.28
57	1.14351	1.8670	0.2045	23.17
58	0.73251	1.0042	0.1138	0.26
59	1.05419	0.0577	0.2858	9.35

N=55543 M1=62.9031 M2=556.6756 Critical Z=148.11

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Table 124. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Mathematics

Item	f	g1	g2	g3	g4	Fit-Z
3	1.39969	0.2610	0.5329	.	.	146.52
7	0.76532	-0.8949	0.7343	2.1410	.	30.28
11	1.00354	-0.1149	-0.4429	.	.	26.51
14	1.36787	-0.3398	0.6209	1.2853	.	14.54
20	0.94376	-0.3997	1.0136	1.4576	0.8789	150.45
25	0.65464	-0.5264	-0.6938	.	.	61.52
29	1.16543	-1.0275	0.7719	2.5026	.	15.47
33	0.47562	-1.7399	0.5335	.	.	120.72
35	1.29163	-2.3674	-1.6358	0.8258	.	104.76
40	1.09658	1.4476	0.5492	1.4269	0.1922	86.71
45	1.26841	0.5050	1.2794	.	.	54.75
49	1.54199	0.2175	2.0026	2.4725	.	16.02
51	1.02479	1.8003	0.0958	.	.	14.54
55	1.25673	-0.9540	0.4370	0.8597	.	106.69
60	0.46943	1.3198	-2.3054	1.0999	-0.1043	91.78

N=55543 M1=62.9031 M2=556.6756 Critical Z=148.11

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Table 125. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Reading

Item	a	b	c	Fit-Z
4	0.31058	-2.4732	0.2000	11.15
5	0.74572	-1.8500	0.2000	7.73
7	0.73381	-0.5986	0.1794	11.75
8	0.52287	-1.4021	0.1075	25.37
9	0.80239	-0.2888	0.2141	16.89
10	0.66469	-1.0137	0.2550	4.39
11	0.99900	1.0236	0.3133	11.48
12	0.71028	0.9687	0.2020	6.22
15	0.38758	-2.6081	0.2000	68.02
16	0.93509	0.7951	0.1710	35.23
17	0.39027	-0.5279	0.2000	24.90
18	0.82415	-1.6897	0.1332	4.49
19	0.76366	-1.2798	0.2443	8.41
20	0.82882	-1.9734	0.2000	5.58
23	0.43360	-0.2767	0.2000	189.38
25	0.31706	-0.7795	0.2000	29.68
26	0.91850	-1.5961	0.2142	7.11
27	0.94245	0.8386	0.2237	8.97
29	0.51123	-2.5109	0.2000	10.04
31	0.51447	-0.7063	0.0841	1.19
32	0.65903	-1.8711	0.2000	10.97
33	0.72132	-0.6889	0.2112	3.53
34	0.56498	0.0931	0.1533	10.96
35	0.85013	-1.7623	0.1436	3.62
36	0.90875	-1.6944	0.2000	17.87
37	0.22219	0.3495	0.2000	111.13
39	1.22738	-1.3558	0.3810	3.26
41	0.71613	-1.1813	0.1899	250.82
43	1.09209	1.1805	0.2624	47.04
44	0.42236	0.5072	0.2128	3.66
45	0.49523	0.8906	0.1905	6.78
46	0.18848	2.9019	0.1928	3.68
48	0.35798	1.6720	0.1192	6.15
49	0.73666	0.0223	0.0726	6.27
50	.	.	.	.
94	0.73974	0.7625	0.1778	24.16
95	0.51709	-1.2092	0.2000	18.81
96	0.86195	-1.0210	0.2169	14.05
97	1.14372	-0.9204	0.1763	7.65
98	1.25343	-0.3357	0.2795	11.03
99	0.72229	-0.0223	0.2664	3.22
100	0.57052	0.0823	0.1369	2.37
101	1.07073	-1.3399	0.1912	1.44
102	0.57581	-1.9191	0.0932	2.18
103	0.53330	-0.5601	0.1086	3.21
105	0.53509	0.9213	0.4867	11.42
106	1.02610	0.3393	0.3099	8.02
107	0.80942	-0.0601	0.2933	3.51

continued

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Table 125. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Reading (Concluded)

Item	a	b	c	Fit-Z
108	0.88338	0.0194	0.3160	12.65
110	0.78306	-1.3458	0.1899	86.05
111	0.66507	-0.7361	0.1473	19.52
112	0.73143	-0.6938	0.2927	1.14
113	0.77995	-1.9644	0.1899	23.20
114	1.06351	-1.1778	0.2406	13.14
115	0.41058	-0.6618	0.0783	18.64
116	0.76790	-0.5831	0.2124	4.43

N=57409 M1=51.069 M2=660.8064 Critical Z=153.09

Table 126. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Reading

Item	f	g1	g2	g3	g4	Fit-Z
6	0.72487	-0.3729	0.4550	.	.	4.86
13	0.69310	-2.2398	0.3865	1.0401	.	30.57
14	0.78363	-1.8916	-2.0125	.	.	16.14
22	0.88773	-1.6324	0.4766	.	.	5.02
24	0.84610	-0.0804	1.2503	2.3239	.	13.63
28	0.52679	-0.6676	-0.9470	-0.0365	.	175.55
30	0.90295	1.1168	-1.3862	.	.	124.91
38	0.75273	-0.0684	1.0352	.	.	17.33
40	0.93960	-1.3194	0.3032	1.1117	.	93.05
42	0.64845	-1.5748	1.2992	.	.	68.05
47	0.79666	-0.0989	1.3593	1.1347	.	35.79
93	0.52662	0.3943	0.4336	-0.1970	.	153.34
104	1.22518	-0.7867	2.1133	.	.	64.60
109	0.85187	-0.8887	-0.7581	-0.5232	.	53.33

N=57409 M1=51.069 M2=660.8064 Critical Z=153.09

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Table 127. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Writing

Item	a	b	c	Fit-Z
51	1.02126	-0.7495	0.2394	2.70
52	0.70880	-0.1626	0.1714	12.65
53	0.66153	-0.0730	0.2305	3.28
54	1.02491	-0.7393	0.3884	1.54
55	0.59844	-1.2153	0.0877	2.83
56	1.05109	1.5950	0.2288	17.89
57	1.25970	-1.1968	0.2324	6.10
58	0.83048	-1.3442	0.1296	3.11
59	1.00137	0.0501	0.1903	5.74
60	0.83689	-1.3258	0.1060	10.03
61	0.73609	0.1597	0.1411	8.75
62	0.76393	-1.2266	0.2693	0.87
63	1.14490	-0.8204	0.2167	7.38
64	0.61512	-0.8361	0.0885	15.44
65	0.73594	-0.6938	0.2826	2.97
66	0.89427	-1.5515	0.2066	1.41
67	1.06966	1.0801	0.0907	18.54
68	0.79625	-1.4390	0.1520	11.91
69	0.83203	-0.9512	0.2211	8.74
70	1.02643	-1.5860	0.0661	29.08
71	0.47780	1.1015	0.4085	17.81
72	1.12429	-1.5967	0.2060	4.89
73	0.70433	-0.9696	0.2487	-0.64
75	0.84128	-1.3366	0.2000	43.46
76	0.80106	0.1506	0.1491	13.92
77	0.75602	-0.6432	0.2267	3.16
78	1.06794	-0.9897	0.2288	3.65
79	1.02903	-0.7958	0.1420	28.66
80	1.10420	1.5263	0.2574	36.53
81	0.57339	-0.9786	0.1029	5.79
82	0.87532	0.4161	0.1685	26.78
83	0.49699	-0.5097	0.2000	46.58
84	0.73810	-1.3257	0.2000	132.45
85	0.84653	-0.3449	0.2585	2.43
86	0.80137	-0.6287	0.2442	6.48
87	1.42141	-1.1272	0.1828	12.61
88	1.05609	0.4214	0.2754	12.82
89	0.86596	0.0973	0.2530	8.20
90	0.84254	1.3449	0.2165	43.89
91	0.54223	0.5367	0.1235	14.53

N=57281 M1=64.2366 M2=566.1437 Critical Z=152.75

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Table 128. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Writing

Item	f	g1	g2	g3	g4	Fit-Z
1	1.04372	-5.4509	.	.	.	2.65
2A	0.74239	-1.4606	.	.	.	4.76
2B	1.34793	-2.0223	.	.	.	1.27
2C	0.96746	-1.2484	.	.	.	15.83
2D	0.70439	-1.2763	.	.	.	58.22
2E	1.16896	-0.8885	.	.	.	3.37
2F	0.98001	-0.6194	.	.	.	3.41
3A	1.14997	-2.7735	-3.3478	-1.2165	1.1032	774.67
3B	1.40017	-5.7117	-3.8633	-1.1939	1.1643	40.04
3C	1.91647	-7.2064	-4.4015	.	.	8.92
21	0.96299	-2.2603	-3.5041	-0.4467	2.1859	93.95
74	0.91634	-2.2555	-3.7141	-0.1314	2.6343	87.39
92	0.85507	-1.4845	-3.4074	0.3894	2.5154	178.23

N=57281 M1=64.2366 M2=566.1437 Critical Z=152.75

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Table 129. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Mathematics

Item	a	b	c	Fit-Z
1	1.17779	-0.5885	0.3843	3.14
2	0.53738	1.7421	0.3237	3.29
3	1.05570	-1.1184	0.3109	4.94
5	0.89126	0.7014	0.1073	28.55
6	1.22844	0.1673	0.3251	7.24
7	1.02334	-0.6786	0.2846	2.63
9	0.95061	-0.5265	0.1233	13.63
10	0.61496	0.1704	0.3262	8.15
11	1.12836	-0.3839	0.2399	4.82
12	1.03040	0.7692	0.2234	2.80
14	0.69548	0.7679	0.2477	1.24
15	1.17992	2.1482	0.2749	10.14
16	1.37903	0.9299	0.1912	54.06
18	1.41071	0.9717	0.1261	51.13
19	0.58277	1.1936	0.1010	4.32
21	1.07270	0.6532	0.2786	1.35
22	0.71089	1.6588	0.3732	10.54
23	1.20979	0.4600	0.2009	2.08
25	0.47447	0.2988	0.1118	13.45
27	0.39791	-0.9237	0.2000	2.77
28	0.36102	-1.9734	0.2000	29.50
29	1.21263	-0.3604	0.4218	4.15
31	1.06910	0.9040	0.2688	20.63
32	0.47539	-0.3288	0.1802	15.43
33	0.89649	0.5655	0.0646	22.75
35	0.57691	0.6530	0.2153	80.81
36	0.76241	0.5922	0.3564	-0.63
37	0.79878	-0.1492	0.2392	1.27
38	0.84030	0.1657	0.0386	7.69
39	0.71934	0.8879	0.2388	7.93
41	1.19002	0.7984	0.3026	26.11
42	1.28731	0.4101	0.0979	9.44
43	0.92753	0.2980	0.2414	0.97
45	1.31330	0.9462	0.2696	23.64
46	0.78773	-1.4025	0.0593	17.76
47	1.61099	0.7367	0.3217	6.34
49	1.56160	0.0279	0.1337	11.78
50	0.24851	-3.4863	0.2000	10.38
52	0.32346	0.1029	0.1816	0.73
53	0.69460	0.8570	0.1569	32.86
54	0.71794	-0.6364	0.2000	38.08
56	1.27091	0.0713	0.1342	16.37
57	1.32858	0.9569	0.3008	4.31
58	0.72247	0.8144	0.1069	0.48
59	0.96696	-0.3294	0.2631	17.01

N=55238 M1=60.4809 M2=586.1943 Critical Z=147.30

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Table 130. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Mathematics

Item	f	g1	g2	g3	g4	Fit-Z
4	0.66118	-1.8790	-0.9283	0.0104	.	71.59
8	1.01998	-0.4344	-0.8255	.	.	43.12
13	0.87379	0.1376	0.3642	3.4435	.	126.60
17	0.91479	2.9638	-0.7421	.	.	43.36
20	0.90221	-0.5096	0.9676	0.9585	0.4953	105.24
24	1.53461	-1.7911	1.5861	.	.	79.68
26	0.99301	0.4187	0.7630	3.1208	.	10.37
30	0.91994	0.7337	1.6941	.	.	230.44
34	1.11483	-0.4032	-1.0202	0.9606	.	256.17
40	1.00653	-2.3298	-2.6326	0.7609	1.3776	239.38
44	0.55556	-2.2296	-0.0427	.	.	83.28
48	0.90762	-1.2693	-1.2775	0.8743	.	225.89
51	1.19688	0.3770	0.1983	.	.	25.60
55	0.97132	-0.4837	0.1848	1.8944	.	34.60
60	0.67417	1.0267	-1.3379	0.8582	-0.8050	123.46

N=55238 M1=60.4809 M2=586.1943 Critical Z=147.30

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Table 131. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Science

Item	a	b	c	Fit-Z
1	1.20458	0.0510	0.2950	17.75
2	0.32596	0.3533	0.1263	4.18
3	0.44254	0.5347	0.1946	0.21
5	0.58589	0.5386	0.2077	3.15
6	0.92765	0.9753	0.3253	9.14
7	0.93600	0.6607	0.1882	3.06
8	0.47181	-0.4401	0.0839	26.39
9	0.65492	0.0273	0.0749	7.35
10	0.66124	1.2304	0.1619	2.91
12	1.13893	0.8090	0.3637	5.76
13	0.59294	0.9752	0.2696	2.06
15	0.81602	1.0615	0.1243	21.24
16	0.54439	1.0265	0.3420	5.23
17	0.55545	-0.5558	0.2000	31.08
18	1.00505	0.5197	0.1819	10.76
19	0.66016	-0.5965	0.0469	4.10
27	1.02179	1.5880	0.2666	10.92
28	0.89801	0.1845	0.3099	8.38
29	0.85908	0.8241	0.3095	-0.27
30	0.99921	-1.1660	0.1070	16.76
31	0.56994	2.0841	0.2585	1.98
32	0.60144	0.8648	0.4132	0.39
34	0.59990	0.7364	0.2635	3.53
35	0.93792	1.8777	0.2646	17.23
36	1.10042	1.4140	0.1151	27.40
38	0.86489	0.3796	0.1333	4.04
39	0.86380	0.7426	0.2908	4.75
40	0.74241	2.1442	0.1458	1.82
41	0.70826	2.2610	0.2090	19.39
42	0.84858	-0.2664	0.1625	11.39
44	0.91881	-0.8091	0.0619	0.55
45	0.70863	0.5884	0.1863	4.00
46	0.44945	-0.3049	0.2000	28.63
48	0.51388	-0.1711	0.2000	9.45
49	1.23611	0.1502	0.1074	6.10
51	0.86734	0.4080	0.1007	1.48
52	0.56371	0.5223	0.3061	13.41
53	0.24075	0.5039	0.2000	10.66
54	0.53089	-0.2380	0.2000	3.20
55	1.09918	0.5057	0.3769	10.65
56	0.41168	-1.3079	0.2000	55.60
57	0.71278	0.2349	0.3355	3.48
59	0.66782	1.1521	0.2540	1.38
60	0.55267	0.3791	0.1740	2.59
61	0.38526	-1.1483	0.2000	0.56
62	0.45941	2.0477	0.1821	11.99
64	1.55619	0.6453	0.2203	62.47
65	0.57754	1.1318	0.1512	2.84
67	0.72111	0.3716	0.1611	2.06

continued

Table 131. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Science (Concluded)

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Item	a	b	c	Fit-Z
68	0.76194	-1.2050	0.2000	141.77
69	0.83870	0.2640	0.2633	2.40
72	0.87118	0.5559	0.1590	31.42
74	0.86387	1.2291	0.2407	22.49
75	0.26488	-0.0556	0.2000	15.30
76	0.93386	0.6445	0.1339	6.77
78	0.85936	1.1455	0.2962	6.88
79	0.29250	0.8757	0.2000	14.07
80	0.58388	1.0374	0.0623	1.22
81	0.94243	0.4246	0.2371	3.03
83	0.54962	1.1578	0.2830	1.64

N=55205 M1=52.6809 M2=505.1751 Critical Z=147.21

Table 132. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Science

Item	f	g1	g2	g3	g4	Fit-Z
4	0.38196	0.8008	.	.	.	2.04
11	0.98970	0.6839	.	.	.	19.08
14	1.12489	-0.4070	.	.	.	37.26
20	1.23940	-0.0064	.	.	.	7.22
21	0.80657	-0.7955	.	.	.	28.33
22	0.86120	-0.6074	-0.1923	.	.	20.16
23	0.90615	-0.8087	.	.	.	35.89
24	0.48032	0.0297	-0.1121	-0.3306	0.2422	11.03
25	1.28879	-1.0432	-0.3720	.	.	17.94
26	0.65492	-0.7817	-0.7902	.	.	107.83
33	1.10873	-0.1573	3.8642	.	.	11.28
37	1.28354	-1.9327	-1.0377	0.3435	.	72.06
43	0.60733	0.2016	2.7015	.	.	9.34
47	1.12574	2.6729	.	.	.	14.36
50	0.94910	-0.5937	1.5560	.	.	125.60
58	0.70299	1.5278	.	.	.	2.99
63	0.37810	0.9118	0.5317	.	.	283.59
66	1.39689	0.2396	.	.	.	3.00
70	1.28112	-0.4131	0.9921	.	.	74.06
71	0.92882	0.2891	1.2430	.	.	49.93
73	0.50378	0.3015	2.1485	.	.	213.01
77	1.01777	-1.1129	0.3748	.	.	16.28
82	1.05731	-0.4627	2.1437	.	.	16.32

N=55205 M1=52.6809 M2=505.1751 Critical Z=147.21

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Table 133. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Reading

Item	a	b	c	Fit-Z
5	0.28797	-0.8076	0.2000	18.15
6	0.84906	0.3250	0.1783	23.24
8	0.67605	-1.8567	0.2000	22.15
9	0.79776	-2.3359	0.2000	1.45
10	0.57840	-1.8152	0.2000	14.77
11	1.18070	1.8409	0.1322	56.93
12	.	.	.	.
13	0.41940	-0.9224	0.1667	10.23
14	0.65576	-0.2545	0.1094	4.41
15	0.39245	0.0560	0.2000	36.04
16	0.89903	-0.7162	0.2616	1.18
17	0.67595	-1.3252	0.2101	14.64
18	1.24795	-0.6193	0.2198	6.23
20	1.01965	-1.3052	0.1397	0.89
21	0.78986	-1.1726	0.1529	3.10
22	1.41804	-1.3440	0.2664	5.11
23	0.75764	-0.0590	0.2256	5.38
24	0.99567	-1.1381	0.2379	12.07
26	1.00263	-1.0304	0.2474	2.97
27	0.29350	-0.0317	0.2000	27.47
28	0.39699	2.4650	0.3306	7.01
30	0.69496	-0.4906	0.1667	31.90
31	.	.	.	.
32	0.48952	0.9486	0.1477	14.30
33	0.81643	-0.4962	0.2993	4.15
34	0.43305	0.0444	0.1009	10.74
35	0.54137	-0.7237	0.0679	8.15
36	0.65930	-0.3890	0.2352	6.31
37	0.60275	0.7921	0.1667	90.09
38	1.04832	0.9961	0.3078	9.17
39	0.56766	-0.7327	0.0879	4.71
40	0.77577	0.7600	0.2577	12.58
41	0.67194	-1.8791	0.2000	4.22
44	0.71851	-1.2372	0.1738	4.63
45	1.35101	-1.3465	0.2358	4.60
46	0.96242	-0.4887	0.1482	24.91
89	0.42115	-0.8794	0.2000	101.04
91	0.86825	-2.0360	0.2000	6.42
92	0.56607	-0.7776	0.2000	28.52
93	0.32102	0.9536	0.2000	63.74
95	1.42663	-2.7765	0.2000	63.55
96	1.59131	-2.5964	0.2000	85.56
97	1.39271	-2.4735	0.2000	30.46
99	0.96387	-1.6992	0.1337	3.55
101	0.61329	-0.6124	0.2000	122.27
102	0.69628	-1.6579	0.1667	12.28
104	0.60333	-0.4275	0.2000	25.77

continued

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Table 133. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Reading (Concluded)

Item	a	b	c	Fit-Z
105	1.37640	-1.7989	0.0895	4.57
106	0.83902	-1.2746	0.0327	114.12
107	0.82538	-1.3074	0.0741	144.63
108	0.56125	-1.4778	0.1284	9.09
109	0.61389	-0.8698	0.1667	42.55
110	0.48923	-0.1671	0.0695	2.02
111	0.58720	-0.5276	0.1080	1.63
113	0.74488	-1.4908	0.2000	2.28
114	1.05275	-0.9490	0.2297	0.27

N=59263 M1=45.5354 M2=671.3661 Critical Z=158.03

Table 134. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Reading

Item	f	g1	g2	g3	g4	Fit-Z
4	0.60956	-2.1378	0.3810	0.8022	.	78.33
7	0.75970	-1.8399	-2.1542	.	.	14.36
19	0.57845	-0.0580	-0.1751	0.0547	.	55.95
29	0.81458	-0.6212	1.4041	0.1977	.	83.15
42	0.75394	0.0895	-1.0659	0.0990	.	6.27
43	0.86342	-1.9580	-1.1297	1.0797	.	26.58
90	0.84682	-0.0862	-0.3184	0.7005	.	68.24
94	0.86511	-1.3443	-0.8715	0.8477	.	52.89
98	0.85178	0.2374	-1.4030	-0.1537	.	34.28
100	0.82867	-1.0202	0.1618	1.2765	.	63.14
103	0.55635	-0.5647	0.8552	.	.	19.41
112	0.76929	-0.7213	-0.1923	1.8176	.	64.52
115	1.20209	-1.1744	0.2763	1.9264	.	75.28
116	1.08137	-0.9927	0.6987	.	.	5.79

N=59263 M1=45.5354 M2=671.3661 Critical Z=158.03

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Table 135. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Writing

Item	a	b	c	Fit-Z
47	1.31907	-1.5735	0.3315	6.67
48	0.51884	-1.1471	0.2000	9.39
49	0.97951	0.2314	0.2390	5.04
50	0.38893	-0.5708	0.1379	2.22
51	1.04218	-1.0817	0.1435	3.50
52	0.86711	0.2013	0.1821	9.29
53	0.45081	-1.0337	0.1371	2.75
54	0.81839	-0.9204	0.2029	0.34
55	0.23525	-1.4843	0.2000	54.97
56	1.29437	-0.1401	0.2226	10.45
57	0.47569	1.0363	0.1261	1.65
58	0.58473	-0.1574	0.1344	0.20
59	0.80038	-1.0555	0.2000	4.80
60	1.13618	-1.2609	0.1429	11.44
61	0.68345	-0.7146	0.0927	5.80
62	0.54224	-0.7503	0.1011	16.31
63	0.83510	0.5345	0.2635	12.59
64	0.73249	1.1995	0.2089	30.89
65	0.62862	0.2549	0.1510	4.93
66	0.73714	-1.1439	0.1178	4.00
67	0.28972	1.3640	0.2000	45.19
69	1.34512	-0.8735	0.3599	9.82
70	0.94273	0.7351	0.1705	25.62
71	0.93691	-0.4426	0.1764	23.56
72	0.67364	-1.2816	0.2000	5.42
73	1.02294	-1.2890	0.1050	43.57
74	0.96500	-0.9731	0.1479	39.58
75	1.05581	0.6757	0.1689	34.65
76	1.22335	-0.8891	0.2565	11.16
77	1.11941	-1.4143	0.1862	32.13
78	0.42271	0.3762	0.2000	65.09
79	0.40945	-0.2004	0.1044	1.01
80	0.98955	-0.4886	0.3339	10.21
81	0.33978	-1.5286	0.2000	10.36
82	1.13817	0.8900	0.1046	30.60
83	0.76962	-0.8491	0.2000	49.62
84	1.34776	-0.8061	0.2780	6.67
85	0.97384	-0.6300	0.1980	10.40
86	0.95421	-0.2897	0.1918	5.93
87	1.46809	-0.2809	0.2000	32.94

N=59156 M1=71.9359 M2=563.2277 Critical Z=157.75

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Table 136. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Writing

Item	F	g1	g2	g3	g4	Fit-Z
1	1.13643	-4.8765	.	.	.	3.21
2A	1.24144	-1.9114	.	.	.	1.59
2B	1.35193	-0.7342	.	.	.	3.73
2C	0.38684	-0.0925	.	.	.	42.63
2D	0.86681	1.3707	.	.	.	13.06
2E	1.34036	-0.9141	.	.	.	6.69
2F	1.03768	-0.2007	.	.	.	16.49
3A	1.38269	-3.7017	-3.5744	-0.8521	1.0076	90.97
3B	1.49818	-5.3969	-3.6221	-0.6706	1.2718	42.73
3C	1.67539	-5.7176	-3.8059	.	.	21.22
25	0.95183	-1.9415	-3.2862	-0.1273	2.1693	122.64
68	1.04644	-2.5339	-3.3860	-0.2445	2.6025	108.96
88	0.76481	-1.2485	-2.6950	-0.2279	2.0802	128.42

N=59156 M1=71.9359 M2=563.2277 Critical Z=157.75

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Table 137. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Mathematics

Item	a	b	c	Fit-Z
1	0.63575	-2.3692	0.2000	29.35
2	1.00413	0.8135	0.2785	16.28
4	0.56049	1.2873	0.2628	5.54
5	1.26366	1.4851	0.1065	9.11
6	1.27105	0.3957	0.3518	4.85
7	0.87267	-0.2546	0.3403	27.35
9	0.90088	-0.3003	0.1086	8.60
10	0.87823	0.8008	0.0983	3.99
12	0.90462	0.7026	0.1110	2.17
13	1.02348	0.4729	0.2483	3.75
15	1.14561	2.1727	0.3381	0.98
16	0.41807	0.8935	0.3636	8.20
17	1.02150	1.6250	0.2849	0.34
18	1.35307	1.1271	0.2631	19.42
19	1.50128	1.0051	0.1483	53.43
21	0.56390	0.6366	0.0964	5.81
22	1.15798	-0.0791	0.1645	21.72
24	0.94872	0.8684	0.1347	37.87
25	1.55582	1.4569	0.0884	39.23
27	1.46678	1.8859	0.0777	28.20
28	0.91952	0.1256	0.2966	12.55
29	1.67323	1.8690	0.2928	1.85
30	0.59265	-0.9171	0.0620	17.66
31	1.21318	0.9116	0.2922	3.07
33	0.43912	-0.1964	0.2000	36.62
34	1.01646	1.0887	0.2741	6.86
36	1.29656	0.7240	0.3152	19.76
37	0.86021	-1.3066	0.1715	11.83
38	0.57380	0.7781	0.4997	102.59
39	1.03068	0.7266	0.0984	13.01
41	0.76901	0.2565	0.2525	1.00
42	1.08478	1.2448	0.4777	16.06
44	0.80695	-0.1891	0.3648	20.37
45	1.76471	2.1782	0.0330	197.12
47	0.78134	0.0372	0.3295	3.21
48	0.84421	1.3693	0.4049	2.59
49	1.39030	1.5962	0.4117	6.88
51	0.45799	0.8436	0.0432	5.50
52	0.65693	-0.6520	0.1039	4.41
53	1.39686	1.3118	0.1786	11.92
55	0.49483	1.4661	0.1367	26.79
56	0.67981	-0.6371	0.2447	1.65
57	1.17205	2.1356	0.3384	12.66
58	0.68324	-1.5904	0.2000	29.84
59	0.24019	1.3149	0.2000	43.14

N=58089 M1=58.4743 M2=580.1279 Critical Z=154.90

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Table 138. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Mathematics

Item	F	g1	g2	g3	g4	Fit-Z
3	1.23888	0.0381	0.4378	.	.	113.97
8	1.05751	0.8670	1.4630	-0.6820	.	32.33
11	1.25091	0.1816	0.6184	.	.	12.28
14	1.44453	1.6756	2.3059	2.5287	.	13.11
20	1.14532	-1.3040	-0.3237	0.4207	1.4046	56.63
23	1.41947	-1.4259	1.4618	.	.	109.38
26	1.09953	0.2609	0.8049	3.2334	.	3.66
32	1.32962	0.7924	1.6328	.	.	52.96
35	0.75025	-0.3205	0.4698	0.2080	.	99.22
40	1.27273	2.1549	1.4835	1.7057	1.5812	22.66
43	1.33688	1.4567	3.3552	.	.	51.21
46	1.16855	0.4444	2.8271	0.2045	.	144.00
50	0.94275	-0.5391	1.3130	.	.	140.32
54	0.89225	-0.9200	1.9180	1.4249	.	65.16
60	0.96810	-0.9608	1.3426	1.5620	2.2890	69.33

N=58089 M1=58.4743 M2=580.1279 Critical Z=154.90

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Table 139. Item Parameter and Fit Summary, Multiple-Choice Items, Grade10 Reading

Item	a	b	c	Fit-Z
4	1.01433	0.2997	0.2513	10.69
6	0.53004	0.4271	0.2602	3.43
7	0.74817	-0.9392	0.3558	3.80
8	0.19208	1.9922	0.2000	6.10
9	0.34968	-1.2038	0.2000	26.54
10	0.90281	-1.7605	0.2255	6.47
12	0.71493	0.9089	0.2669	2.06
13	0.34046	-0.7637	0.2000	174.15
14	0.32051	-0.7063	0.1033	13.05
15	0.55205	0.7500	0.1957	3.14
16	0.67987	-1.7803	0.2000	18.43
17	0.48589	1.5668	0.2342	2.82
18	0.55909	0.6292	0.1833	7.21
19	0.72245	0.5293	0.2297	8.51
20	0.95937	0.1545	0.2299	5.13
21	0.38423	0.9230	0.1609	0.73
22	0.81266	-0.7463	0.3639	9.12
23	0.59138	-1.6010	0.1843	27.39
24	1.18644	0.5296	0.3239	8.43
25	0.94697	-0.0782	0.2679	3.24
26	0.51232	-1.4251	0.0772	1.11
27	0.69373	-1.2022	0.0661	5.58
30	0.23402	0.8366	0.2000	149.70
32	0.33595	0.7927	0.2000	30.91
33	0.76221	1.6957	0.1788	13.08
35	0.74555	-0.9384	0.1601	0.65
37	0.74798	-1.6447	0.0567	1.36
38	0.79813	0.2584	0.3856	21.72
39	0.59831	-1.3785	0.1843	6.36
40	1.02558	-0.6308	0.2564	6.21
41	0.40790	-0.2204	0.0940	6.34
42	0.92409	-2.4942	0.2000	14.64
43	0.73861	-0.2446	0.1381	8.36
45	1.21569	-0.6891	0.2846	8.65
46	1.45735	0.1668	0.2728	23.30
48	0.88100	-0.5982	0.0695	10.02
49	1.21965	0.9979	0.2620	20.28
50	0.98919	-0.4360	0.3664	3.57
52	0.79523	-0.6201	0.2082	5.90
53	0.69076	-1.2586	0.2269	1.55
97	0.77526	-1.8385	0.0953	4.26
98	0.55587	-0.8565	0.2000	77.34
99	0.45217	-2.7394	0.2000	438.89
100	0.83216	-1.9684	0.1395	9.29
102	0.57354	-0.7714	0.0590	2.92
103	1.43781	-1.7617	0.1385	8.57

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Table 139. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Reading (Concluded)

Item	a	b	c	Fit-Z
104	0.62959	-1.4126	0.2000	6.14
105	0.62186	-0.7942	0.2066	5.36
106	0.84174	-1.0410	0.2000	0.98
107	1.06410	1.0298	0.2777	4.95
109	0.61739	-1.3578	0.0923	-0.01
110	0.56856	-1.6569	0.0887	7.41
111	1.22705	-0.8400	0.2474	2.67
113	0.67997	-0.9852	0.1843	58.10
114	0.67180	-0.4681	0.1611	1.51
115	0.79177	-1.4867	0.1448	9.46

N=55434 M1=49.1452 M2=688.4885 Critical Z=147.82

Table 140. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Reading

Item	F	g1	g2	g3	g4	Fit-Z
5	0.62797	-1.2139	-1.0086	-0.3634	0.0797	27.34
11	0.72000	-1.7478	-0.2643	.	.	19.86
28	0.63861	-1.2753	-0.1529	0.5752	.	138.35
29	0.94649	-0.9756	0.2165	1.5490	.	31.72
31	0.84148	-0.1673	0.7385	1.5312	.	4.31
34	0.90102	-0.5746	0.7874	1.7527	.	35.24
36	1.13822	-1.6030	1.9825	.	.	13.64
44	1.07728	-0.9156	-0.2864	-0.1905	.	35.60
47	0.70737	-0.1471	-0.8744	-0.0596	.	66.21
51	0.86109	0.0171	1.2005	0.2129	.	46.35
96	0.84151	-1.2963	-0.0036	1.1703	.	28.51
101	0.50139	-0.5350	1.0649	.	.	42.26
108	0.94673	-0.7634	-0.1071	0.6203	.	25.64
112	0.86500	-1.0494	-0.2661	1.5430	.	11.25

N=55434 M1=49.1452 M2=688.4885 Critical Z=147.82

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Table 141. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Writing

Item	a	b	c	Fit-Z
54	1.67982	-1.7776	0.2853	4.90
55	0.55184	0.0199	0.1692	11.46
56	0.78730	-1.5617	0.2556	8.10
57	0.98838	-0.7344	0.2446	3.98
58	0.75533	0.0912	0.2038	8.58
59	1.50451	-1.2676	0.1978	13.11
60	1.17609	-1.2890	0.1182	11.79
61	1.69886	-1.4350	0.1451	13.08
62	1.14006	-1.3582	0.1141	12.42
63	0.74810	-1.2921	0.2000	12.38
64	0.26446	1.1150	0.2000	57.91
65	1.28105	-0.7335	0.1118	37.50
66	1.28693	-0.2672	0.1798	26.08
67	0.33209	0.3502	0.2000	108.24
68	1.39840	-1.1476	0.2197	10.87
69	0.58371	-0.2645	0.2000	51.08
70	0.90350	-0.5296	0.2907	6.86
71	1.00741	-1.6509	0.1094	9.11
73	1.41005	-1.1587	0.0922	9.72
74	1.13780	-0.7025	0.1931	7.28
75	1.76471	-1.3539	0.2002	25.77
76	0.56782	0.1447	0.1270	28.26
77	0.62000	1.1051	0.3222	4.60
78	0.76829	0.6758	0.1685	19.21
79	1.09978	-1.3649	0.1226	34.32
80	1.01813	-1.5134	0.1652	27.42
81	1.35988	-1.0316	0.1712	13.39
82	0.77557	-0.5435	0.0931	2.69
83	0.61050	-0.4934	0.1122	18.13
84	0.71788	-0.4114	0.1352	21.44
85	1.76431	-1.4078	0.2372	21.76
86	1.04039	-1.0932	0.0953	8.04
87	0.63561	0.6868	0.1292	100.31
88	0.79570	-1.3519	0.2000	13.57
89	1.30647	-0.9548	0.2308	5.73
90	0.94612	0.5480	0.2602	7.95
91	0.77397	0.9351	0.2229	4.64
92	1.16799	-0.9540	0.1862	9.31
93	0.72201	-1.0446	0.2000	36.65
94	1.02720	-1.3935	0.0620	70.12

N=55256 M1=79.1595 M2=574.3836 Critical Z=147.35

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Table 142. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Writing

Item	F	g1	g2	g3	g4	Fit-Z
1	1.09751	-4.5167	.	.	.	2.58
2A	1.64112	-3.1454	.	.	.	5.02
2B	1.09893	-1.5204	.	.	.	33.50
2C	0.87235	0.0349	.	.	.	5.39
2D	0.94846	-1.8139	.	.	.	18.10
2E	1.06697	2.0189	.	.	.	37.63
2F	1.13701	-2.0454	.	.	.	39.68
3A	1.22948	-3.0544	-3.2603	-0.4431	1.2622	257.98
3B	1.38606	-4.3653	-3.6157	-0.4588	1.3827	95.85
3C	1.45539	-4.5898	-3.6536	.	.	30.07
72	0.81885	-1.5770	-2.8642	-0.0077	1.9371	81.69
95	1.00352	-1.4592	-2.9351	0.1803	2.4071	159.90
116	0.74725	-1.1456	-2.6162	-0.4009	2.0081	122.27

N=55256 M1=79.1595 M2=574.3836 Critical Z=147.35

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Table 143. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Mathematics

Item	a	b	c	Fit-Z
1	1.13331	1.1333	0.4999	139.21
2	1.46687	1.4481	0.1322	8.91
3	1.66902	1.5318	0.1442	334.80
5	0.65023	1.2792	0.1804	13.83
6	0.48227	1.1452	0.2000	184.68
7	1.24077	1.3184	0.3096	19.34
8	1.76471	1.5390	0.2339	105.43
10	0.84716	0.2072	0.1348	0.31
11	.	.	.	.
12	.	.	.	.
13	0.82141	1.0579	0.0446	76.42
15	1.66098	1.5482	0.3019	48.63
16	0.81418	0.2892	0.2397	2.31
17	1.04760	-0.4492	0.3047	3.92
19	0.73102	-0.1792	0.2040	77.65
21	1.07645	1.2855	0.1440	2.20
22	0.58738	-0.6550	0.2081	5.39
23	1.18905	1.4486	0.1422	20.27
24	0.84702	1.3577	0.0565	23.63
26	0.98577	0.1273	0.3238	14.42
27	0.45469	-1.5517	0.2000	25.19
29	2.11282	1.8714	0.3892	146.34
30	1.00706	0.1008	0.3417	3.66
31	0.90752	1.8577	0.1932	46.09
33	0.30251	2.4501	0.1892	22.05
34	1.36367	1.0097	0.1407	11.33
35	1.25793	0.7714	0.2821	4.02
37	1.76471	1.3402	0.2520	63.49
38	0.71053	0.9426	0.0519	2.46
39	1.13545	0.7441	0.1670	5.72
41	1.32963	1.5173	0.1083	2.87
42	0.56920	-0.9293	0.0610	11.31
43	1.32320	1.4868	0.2834	10.17
44	0.68338	1.5952	0.1290	18.20
46	0.60214	-2.1498	0.2000	36.76
47	1.28647	0.6961	0.0593	12.79
49	0.97158	1.7368	0.3259	2.85
50	0.71186	1.6308	0.4050	60.27
51	0.99523	-0.1989	0.1907	5.12
53	1.51160	1.0658	0.3911	8.22
54	0.56799	0.1583	0.0273	14.19
55	1.65549	1.5558	0.2576	13.65
56	1.01255	1.9049	0.3534	3.06
58	0.57748	1.4534	0.1133	15.39
59	0.72556	0.1912	0.2966	27.52

N=54773 M1=59.8532 M2=592.3002 Critical Z=146.06

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Table 144. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Mathematics

Item	F	g1	g2	g3	g4	Fit-Z
4	0.81109	0.1489	-1.6484	.	.	195.80
9	0.79549	1.0249	-0.8947	2.1478	.	367.42
14	0.59747	3.6680	0.8465	.	.	7.01
18	1.00608	0.6461	2.1106	2.5906	.	36.56
20	0.88800	1.9534	1.3028	0.2751	1.3965	46.93
25	1.18874	-0.1550	0.1271	.	.	86.65
28	1.11948	-1.3577	0.7076	3.3914	.	101.23
32	1.25805	-0.5848	3.1459	.	.	100.04
36	1.02070	0.9006	1.4303	-0.9666	.	14.54
40	0.99007	0.2096	0.8005	0.8571	0.7301	95.95
45	0.64352	1.1367	0.0209	.	.	87.13
48	1.24590	0.1360	-0.6522	-0.2122	.	140.20
52	1.26847	2.3820	-0.5027	.	.	97.97
57	1.18045	0.3570	2.7672	-0.1215	.	167.11
60	1.25972	-2.2417	0.0844	1.7915	3.7344	88.97

N=54773 M1=59.8532 M2=592.3002 Critical Z=146.06

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Table 145. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Science

Item	a	b	c	Fit-Z
1	0.35669	-1.5467	0.2000	74.04
2	1.08106	1.9603	0.2750	13.10
3	0.71625	1.8129	0.1312	1.39
4	0.50852	1.4175	0.1728	4.96
5	0.65846	0.8873	0.3462	12.49
7	0.93694	-0.1689	0.3421	3.79
8	1.17992	0.0832	0.2405	7.30
9	0.62173	1.3756	0.2296	10.46
10	0.37229	0.4785	0.2000	98.32
11	1.23181	1.3405	0.2383	9.75
12	0.71082	0.4252	0.4307	10.85
13	0.76897	0.9863	0.2689	4.06
14	0.59785	1.3061	0.1598	5.24
15	0.28334	3.3956	0.2000	26.53
16	0.45384	-0.2648	0.2000	111.34
17	0.39724	0.0305	0.0942	10.88
18	0.96827	-0.6424	0.1106	52.43
19	0.76921	1.4313	0.4304	17.58
20	0.85880	1.8372	0.1941	48.86
28	0.69682	-0.9395	0.2000	11.60
30	0.60575	-1.7661	0.1078	15.75
31	1.41636	1.8807	0.3531	15.05
32	1.33228	0.9578	0.1465	36.96
33	1.16316	-1.4561	0.2209	16.07
35	0.73540	-0.7062	0.3695	1.20
37	.	.	.	.
39	0.96394	0.3482	0.3231	9.15
40	0.93830	0.0570	0.2017	12.48
42	0.94876	-1.7283	0.1138	32.36
43	1.08030	0.8718	0.2165	9.35
45	0.53980	1.9080	0.1544	3.60
46	0.37642	0.5094	0.2000	20.96
47	0.60591	1.7649	0.2139	2.86
48	0.81868	-0.0588	0.2233	13.17
49	1.76471	1.2726	0.2619	88.41
51	0.92278	-0.0279	0.1162	4.47
52	0.82081	-1.1444	0.2323	2.78
54	0.55295	0.3122	0.1607	3.74
55	1.10614	-0.7455	0.3168	4.60
56	0.51278	-0.1949	0.2161	8.15
57	1.27083	0.8251	0.2132	18.72
58	1.14456	0.1184	0.3203	8.97
59	0.72214	0.7050	0.1696	8.57
60	0.55889	1.2184	0.1721	-0.23
62	0.64903	-0.7039	0.2000	18.90
63	0.77363	-0.8129	0.0873	4.96
64	0.72771	1.2236	0.1988	5.27

continued

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Table 145. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Science (Concluded)

Item	a	b	c	Fit-Z
66	0.91348	-0.5311	0.3358	3.83
67	0.69085	2.1403	0.1531	1.66
69	1.04686	0.5901	0.2500	12.34
70	0.55194	-1.8091	0.2115	7.78
71	0.52774	0.7562	0.1119	3.99
72	0.50949	-0.9790	0.1648	9.42
74	0.64588	0.0322	0.1011	6.33
75	0.42862	0.5007	0.2000	31.96
76	0.32744	0.6862	0.0976	6.54
78	0.88890	-0.3524	0.1104	13.61
79	0.67308	1.1027	0.2461	3.07
80	1.23305	0.9098	0.2089	7.84
82	1.10869	0.3167	0.4273	7.23

N=54645 M1=55.8887 M2=499.4171 Critical Z=145.72

Table 146. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Science

Item	F	g1	g2	g3	g4	Fit-Z
6	0.87653	0.2935	1.4301	.	.	6.52
21	0.44050	0.3918	-1.2621	0.4470	0.2431	36.89
22	0.61416	0.4772	-0.0314	.	.	22.83
23	1.19250	-0.0402	.	.	.	4.63
24	0.46003	-0.2466	-0.7055	-0.2754	.	48.58
25	1.08191	0.9775	.	.	.	48.18
26	0.76999	-0.0518	.	.	.	107.57
27	1.22063	0.2296	.	.	.	46.01
29	0.46100	-0.5683	.	.	.	31.65
34	1.06820	2.7419	5.3130	.	.	43.67
36	0.95162	-1.0232	-0.0408	.	.	99.54
38	1.09522	0.5505	.	.	.	86.17
41	1.21545	1.3446	4.3546	.	.	49.19
44	0.73160	0.5890	-0.5914	.	.	17.85
50	0.84570	1.5705	0.5473	.	.	73.53
53	0.99151	1.8522	2.5791	.	.	7.74
61	1.07518	0.4760	1.9283	.	.	9.13
65	1.04648	-1.4873	-1.4390	.	.	88.37
68	1.07263	-0.0458	1.1113	.	.	23.43
73	1.06213	0.1916	.	.	.	1.79
77	0.39784	-0.4651	-0.0532	.	.	6.04
81	0.63420	1.5103	.	.	.	4.61
83	1.23190	-0.2707	.	.	.	22.79

N=54645 M1=55.8887 M2=499.4171 Critical Z=145.72

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Table 147. Correlations Between the Reference and New Form Item Parameters for the 2010 CSAP Administration

Content	Grade	Discrimination (a)	Difficulty (b)	Guessing (c)	P-Value (p)
Reading	3	0.98	0.99	0.94	0.99
Reading	4	0.99	1.00	0.97	1.00
Reading	5	0.99	0.98	0.93	0.99
Reading	6	0.99	1.00	0.98	1.00
Reading	7	0.98	0.98	0.94	0.99
Reading	8	0.98	0.98	0.79	0.99
Reading	9	0.99	0.96	0.75	0.99
Reading	10	0.95	0.98	0.80	0.99
Writing	3	0.94	0.93	0.77	0.99
Writing	4	0.98	1.00	0.86	0.99
Writing	5	0.98	0.99	0.78	0.98
Writing	6	0.98	0.91	0.50	0.98
Writing	7	0.97	0.97	0.83	1.00
Writing	8	0.89	0.99	0.86	0.91
Writing	9	0.97	0.99	0.76	0.99
Writing	10	0.96	0.99	0.83	0.99
Mathematics	3	0.96	0.99	0.70	0.99
Mathematics	4	0.96	0.99	0.85	0.99
Mathematics	5	0.98	0.99	0.80	1.00
Mathematics	6	0.97	0.97	0.81	0.99
Mathematics	7	0.97	0.84	0.71	1.00
Mathematics	8	0.99	0.96	0.90	0.99
Mathematics	9	0.99	0.99	0.98	0.98
Mathematics	10	0.96	0.99	0.94	1.00
Science	5	0.93	0.99	0.85	0.99
Science	8	0.92	0.99	0.92	0.99
Science	10	0.96	0.99	0.82	0.99
Reading Spanish	3	0.81	0.98	0.54	0.99
Reading Spanish	4	0.15	0.65	-0.22	0.99
Writing Spanish	3	-0.72	-0.01	-0.11	1.00
Writing Spanish	4	-0.06	0.13	0.10	1.00

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Table 148. Scaling Constants Across Grades and Content Areas for Two Administrations

		2009		2010	
Content	Grade	Multiplicative	Additive	Multiplicative	Additive
Reading	3	59.6	569.4	65.6	562.4
Reading	4	55.2	596.1	49.4	588.9
Reading	5	56.3	625.5	56.9	618.6
Reading	6	56.4	632.3	56.4	639.6
Reading	7	56.2	647.0	54.7	651.2
Reading	8	50.7	655.5	51.1	660.8
Reading	9	45.7	666.0	45.5	671.4
Reading	10	44.1	694.2	49.1	688.5
Writing	3	43.6	471.2	45.6	461.7
Writing	4	45.6	488.5	46.0	487.0
Writing	5	48.3	513.2	50.2	507.8
Writing	6	52.8	531.2	55.3	527.6
Writing	7	61.2	561.9	63.3	558.0
Writing	8	61.3	562.2	64.2	566.1
Writing	9	69.3	568.7	71.9	563.2
Writing	10	72.7	588.9	79.2	574.4
Mathematics	3	73.7	467.6	79.8	481.0
Mathematics	4	68.5	501.6	65.9	509.9
Mathematics	5	67.7	524.9	60.4	533.9
Mathematics	6	66.6	551.7	62.3	552.6
Mathematics	7	61.7	569.5	62.9	556.7
Mathematics	8	53.0	580.1	60.5	586.2
Mathematics	9	62.1	567.6	58.5	580.1
Mathematics	10	62.8	592.4	59.9	592.3
Science	5	57.1	507.2	54.7	508.3
Science	8	53.4	510.8	52.7	505.2
Science	10	54.6	508.5	55.9	499.4
Reading Spanish	3	39.3	528.5	39.3	528.5
Reading Spanish	4	-*	-*	1.0	0.0
Writing Spanish	3	-*	-*	64.2	501.5
Writing Spanish	4	-*	-*	1.0	0.0

*Grade 4 Spanish Reading and Grades 3 and 4 Spanish Writing were pre-equated.

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Table 149. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Reading	3	CS 1	Anchor Set	16	100.0
			Total Test	40	100.0
		Total	Anchor Set	16	100.0
			Total Test	40	100.0
Reading	4	CS 1	Anchor Set	8	38.1
			Total Test	29	41.4
		CS 4	Anchor Set	5	23.8
			Total Test	15	21.4
		CS 5	Anchor Set	5	23.8
			Total Test	13	18.6
		CS 6	Anchor Set	3	14.3
			Total Test	13	18.6
		Total	Anchor Set	21	100.0
			Total Test	70	100.0
Reading	5	CS 1	Anchor Set	8	34.8
			Total Test	25	35.7
		CS 4	Anchor Set	5	21.7
			Total Test	15	21.4
		CS 5	Anchor Set	5	21.7
			Total Test	17	24.3
		CS 6	Anchor Set	5	21.7
			Total Test	13	18.6
		Total	Anchor Set	23	100.0
			Total Test	70	100.0
Reading	6	CS 1	Anchor Set	8	38.1
			Total Test	27	38.6
		CS 4	Anchor Set	5	23.8
			Total Test	12	17.1
		CS 5	Anchor Set	3	14.3
			Total Test	19	27.1
		CS 6	Anchor Set	5	23.8
			Total Test	12	17.1
		Total	Anchor Set	21	100.0
			Total Test	70	100.0
Reading	7	CS 1	Anchor Set	6	27.3
			Total Test	21	30.0
		CS 4	Anchor Set	4	18.2
			Total Test	17	24.3
		CS 5	Anchor Set	7	31.8
			Total Test	17	24.3
		CS 6	Anchor Set	5	22.7
			Total Test	15	21.4
		Total	Anchor Set	22	100.0
			Total Test	70	100.0

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Table 149. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading (Concluded)

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Reading	8	CS 1	Anchor Set	6	26.1
			Total Test	23	33.3
		CS 4	Anchor Set	7	30.4
			Total Test	17	24.6
		CS 5	Anchor Set	6	26.1
			Total Test	15	21.7
		CS 6	Anchor Set	4	17.4
			Total Test	14*	20.3
		Total	Anchor Set	23	100.0
			Total Test	69	100.0
Reading	9	CS 1	Anchor Set	5	22.7
			Total Test	17*	25.0
		CS 4	Anchor Set	5	22.7
			Total Test	16	23.5
		CS 5	Anchor Set	7	31.8
			Total Test	19	27.9
		CS 6	Anchor Set	5	22.7
			Total Test	12*	17.6
		Total	Anchor Set	22	100.0
			Total Test	68	100.0
Reading	10	CS 1	Anchor Set	6	28.6
			Total Test	22	31.4
		CS 4	Anchor Set	5	23.8
			Total Test	16	22.9
		CS 5	Anchor Set	5	23.8
			Total Test	19	27.1
		CS 6	Anchor Set	5	23.8
			Total Test	13	18.6
		Total	Anchor Set	21	100.0
			Total Test	70	100.0

* Content area in which item(s) were removed from calibration or anchor set. Count shown in this table does not include removed items.

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Table 150. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Mathematics

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Mathematics	3	CS 1	Anchor Set	3	15.8
			Total Test	8	20.0
		CS 2/3	Anchor Set	7	36.8
			Total Test	11	27.5
		CS 4/5	Anchor Set	6	31.6
			Total Test	14	35.0
		CS 6	Anchor Set	3	15.8
			Total Test	7	17.5
		Total	Anchor Set	19	100.0
			Total Test	40	100.0
Mathematics	4	CS 1	Anchor Set	4	18.2
			Total Test	14	20.3
		CS 2	Anchor Set	4	18.2
			Total Test	9	13.0
		CS 3	Anchor Set	3	13.6
			Total Test	11	15.9
		CS 4/5	Anchor Set	6	27.3
			Total Test	21	30.4
		CS 6	Anchor Set	5	22.7
			Total Test	14	20.3
		Total	Anchor Set	22	100.0
			Total Test	69	100.0
Mathematics	5	CS 1	Anchor Set	4	20.0
			Total Test	16	23.2
		CS 2	Anchor Set	4	20.0
			Total Test	11	15.9
		CS 3	Anchor Set	4	20.0
			Total Test	11	15.9
		CS 4/5	Anchor Set	4	20.0
			Total Test	15	21.7
		CS 6	Anchor Set	4	20.0
			Total Test	16	23.2
		Total	Anchor Set	20	100.0
			Total Test	69	100.0
Mathematics	6	CS 1	Anchor Set	4	20.0
			Total Test	13	21.7
		CS 2	Anchor Set	4	20.0
			Total Test	10	16.7
		CS 3	Anchor Set	4	20.0
			Total Test	10	16.7
		CS 4/5	Anchor Set	5	25.0
			Total Test	16	26.7
		CS 6	Anchor Set	3	15.0
			Total Test	11	18.3
		Total	Anchor Set	20	100.0
			Total Test	60	100.0

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Table 150. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Mathematics (Continued)

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Mathematics	7	CS 1/6	Anchor Set	6	30.0
			Total Test	19	31.7
		CS 2	Anchor Set	4	20.0
			Total Test	12	20.0
		CS 3	Anchor Set	5	25.0
			Total Test	12	20.0
		CS 4/5	Anchor Set	5	25.0
			Total Test	17	28.3
		Total	Anchor Set	20	100.0
			Total Test	60	100.0
Mathematics	8	CS 1/6	Anchor Set	5	25.0
			Total Test	15	25.0
		CS 2	Anchor Set	5	25.0
			Total Test	15	25.0
		CS 3	Anchor Set	4	20.0
			Total Test	12	20.0
		CS 4/5	Anchor Set	6	30.0
			Total Test	18	30.0
		Total	Anchor Set	20	100.0
			Total Test	60	100.0
Mathematics	9	CS 1/6	Anchor Set	4	20.0
			Total Test	13	21.7
		CS 2	Anchor Set	4	20.0
			Total Test	17	28.3
		CS 3	Anchor Set	6	30.0
			Total Test	15	25.0
		CS 4/5	Anchor Set	6	30.0
			Total Test	15	25.0
		Total	Anchor Set	20	100.0
			Total Test	60	100.0
Mathematics	10	CS 1/6	Anchor Set	5	23.8
			Total Test	13	22.4
		CS 2	Anchor Set	5	23.8
			Total Test	17	29.3
		CS 3	Anchor Set	5	23.8
			Total Test	14*	24.1
		CS 4/5	Anchor Set	6	28.6
			Total Test	14*	24.1
		Total	Anchor Set	21	100.0
			Total Test	58	100.0

* Content area in which item(s) were removed from calibration or anchor set. Count shown in this table does not include removed items.

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Table 151. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Writing

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Writing	3	CS 2	Anchor Set	8	42.1
			Total Test	21	39.6
		CS 3	Anchor Set	11	57.9
			Total Test	32	60.4
		Total	Anchor Set	19	100.0
			Total Test	53	100.0
Writing	4	CS 2	Anchor Set	9	45.0
			Total Test	21	39.6
		CS 3	Anchor Set	11	55.0
			Total Test	32	60.4
		Total	Anchor Set	20	100.0
			Total Test	53	100.0
Writing	5	CS 2	Anchor Set	8*	42.1
			Total Test	20	38.5
		CS 3	Anchor Set	11	57.9
			Total Test	32	61.5
		Total	Anchor Set	19	100.0
			Total Test	52	100.0
Writing	6	CS 2	Anchor Set	10*	47.6
			Total Test	20	38.5
		CS 3	Anchor Set	11	52.4
			Total Test	32	61.5
		Total	Anchor Set	21	100.0
			Total Test	52	100.0
Writing	7	CS 2	Anchor Set	11	50.0
			Total Test	21	39.6
		CS 3	Anchor Set	12	54.5
			Total Test	32	60.4
		Total	Anchor Set	22	100.0
			Total Test	53	100.0
Writing	8	CS 2	Anchor Set	10	47.6
			Total Test	21	40.4
		CS 3	Anchor Set	11*	52.4
			Total Test	31	59.6
		Total	Anchor Set	21	100.0
			Total Test	52	100.0
Writing	9	CS 2	Anchor Set	10	45.5
			Total Test	21	39.6
		CS 3	Anchor Set	12	54.5
			Total Test	32	60.4
		Total	Anchor Set	22	100.0
			Total Test	53	100.0
Writing	10	CS 2	Anchor Set	10	45.5
			Total Test	21	39.6
		CS 3	Anchor Set	12	54.5
			Total Test	32	60.4
		Total	Anchor Set	22	100.0
			Total Test	53	100.0

*

Content area in which item(s) were removed from calibration or anchor set. Count shown in this table does not include removed items.

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Table 152. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Science

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Science	5	CS 1/5	Anchor Set	8	40.0
			Total Test	30	40.0
		CS 2	Anchor Set	4	20.0
			Total Test	15	20.0
		CS 3	Anchor Set	4	20.0
			Total Test	15	20.0
		CS 4	Anchor Set	4	20.0
			Total Test	15	20.0
		Total	Anchor Set	20	100.0
			Total Test	75	100.0
Science	8	CS 1/5	Anchor Set	8	40.0
			Total Test	32	38.6
		CS 2	Anchor Set	4	20.0
			Total Test	18	21.7
		CS 3	Anchor Set	4	20.0
			Total Test	17	20.5
		CS 4	Anchor Set	4	20.0
			Total Test	16	19.3
		Total	Anchor Set	20	100.0
			Total Test	83	100.0
Science	10	CS 1/5	Anchor Set	8	42.1
			Total Test	33	40.2
		CS 2	Anchor Set	4	21.1
			Total Test	15*	18.3
		CS 3	Anchor Set	3	15.8
			Total Test	17	20.7
		CS 4	Anchor Set	4	21.1
			Total Test	17	20.7
		Total	Anchor Set	19	100.0
			Total Test	82	100.0

* Content area in which item(s) were removed from calibration or anchor set. Count shown in this table does not include removed items.

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Table 153. CSAP Item and Anchor Count by Content Standard for Final Calibration Sample: Reading and Writing Spanish

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Reading Spanish	3	CS 1	Anchor Set	18	100.0
			Total Test	40	100.0
		Total	Anchor Set	18	100.0
			Total Test	40	100.0
Reading Spanish	4	CS 1	Anchor Set	7	38.9
			Total Test	31	44.3
		CS 4	Anchor Set	4	22.2
			Total Test	14	20.0
		CS 5	Anchor Set	4	22.2
			Total Test	13	18.6
		CS 6	Anchor Set	3	16.7
			Total Test	12	17.1
		Total	Anchor Set	18	100.0
			Total Test	70	100.0

Content Area	Grade	Content Standard	Item Set	No. of Items	Percentage
Writing Spanish	3	CS 2	Anchor Set	5	27.8
			Total Test	21	39.6
		CS 3	Anchor Set	13	72.2
			Total Test	32	60.4
		Total	Anchor Set	18	100.0
			Total Test	53	100.0
Writing Spanish	4	CS 2	Anchor Set	4	22.2
			Total Test	19	35.8
		CS 3	Anchor Set	14	77.8
			Total Test	34	64.2
		Total	Anchor Set	18	100.0
			Total Test	53	100.0

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Table 154. Scale Score Descriptive Statistics by Gender

		Gender											
		Female				Male				Total			
		N	Mean	SD	Median	N	Mean	SD	Median	N	Mean	SD	Median
Content	**Grade**												
Reading	**3**	30013	561	77.9	569	30869	544	90.0	558	60884	553	84.7	563
	4	29938	592	55.7	598	31149	579	66.3	588	61090	585	61.6	593
	5	29296	620	63.5	625	30494	605	70.8	614	59809	612	67.8	620
	6	28954	638	63.2	643	29859	620	70.3	629	58816	629	67.5	636
	7	28278	651	60.0	656	29486	631	66.8	640	57766	641	64.3	648
	8	27991	661	56.0	667	29133	643	62.2	652	57130	652	60.0	659
	9	28712	670	50.2	675	30341	653	53.6	658	59056	661	52.7	666
	10	27114	691	53.7	695	28120	671	61.3	680	55237	681	58.5	687
Spanish Reading	**3**	574	527	49.2	530	636	512	54.8	519	1210	519	52.7	524
	4	56	530	42.9	538	57	534	39.4	538	113	532	41.1	538
Writing	**3**	29946	474	49.5	472	30824	457	51.1	458	60770	465	51.0	465
	4	29936	494	52.0	494	31159	477	50.7	478	61099	485	52.0	485
	5	29267	517	54.1	517	30459	498	55.0	499	59745	507	55.4	508
	6	28974	534	60.1	533	29879	513	61.2	514	58856	524	61.6	523
	7	28281	566	68.5	566	29490	539	69.4	540	57773	552	70.4	553
	8	27996	580	69.7	580	29101	550	69.7	551	57103	565	71.4	565
	9	28734	579	77.1	578	30361	545	77.7	547	59098	561	79.3	562
	10	27098	593	86.3	591	28124	558	86.2	560	55225	575	88.0	575
Spanish Writing	**3**	579	523	71.1	527	632	493	74.1	496	1211	508	74.2	509
	4	56	517	41.6	523	57	512	34.0	511	113	515	37.9	517
Mathematics	**3**	30553	464	89.6	465	31488	471	95.3	474	62045	467	92.6	470
	4	30014	491	76.6	494	31244	494	81.2	499	61259	493	79.0	497
	5	29327	520	69.2	522	30534	520	75.1	525	59863	520	72.3	523
	6	28999	539	71.9	542	29903	535	77.9	541	58904	537	75.1	541
	7	28297	553	71.1	557	29538	551	78.7	557	57836	552	75.1	557
	8	28014	574	68.0	578	29173	576	75.4	581	57191	575	71.9	579
	9	28741	578	68.2	584	30401	578	75.2	585	59144	578	71.9	585
	10	27162	586	68.9	592	28252	589	77.0	596	55419	588	73.2	594
Science	**5**	29432	497	61.3	500	30609	501	65.0	505	60043	499	63.2	503
	8	28166	498	58.0	503	29307	499	63.6	507	57478	498	60.9	505
	10	27242	494	60.2	502	28312	496	67.6	506	55559	495	64.1	504

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Table 155. Scale Score Descriptive Statistics by Content Standard

		Content Standard												Content Standard								
		1			2			3			4			5			6			Total		
		Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median
Content	Grade																					
Reading	3	553	84.70	563	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	553	84.70	563
	4	586	67.80	593	.	.	.	.	.	.	585	94.00	593	583	100.50	593	580	89.80	594	585	61.60	593
	5	614	83.60	619	.	.	.	.	.	.	614	87.50	620	611	91.30	621	610	89.40	620	612	67.80	620
	6	630	77.50	636	.	.	.	.	.	.	629	82.00	635	636	102.20	636	625	92.80	636	629	67.50	636
	7	643	72.60	647	.	.	.	.	.	.	644	76.60	648	644	88.00	648	639	82.00	649	641	64.30	648
	8	654	67.60	658	.	.	.	.	.	.	650	80.00	660	654	86.80	659	651	74.30	657	652	60.00	659
	9	662	60.30	666	.	.	.	.	.	.	661	75.20	666	668	74.80	667	657	75.70	665	661	52.70	666
	10	681	66.60	688	.	.	.	.	.	.	679	73.90	687	686	79.60	687	680	73.20	686	681	58.50	687
Spanish Reading	3	519	52.70	524	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	519	52.70	524
	4	532	44.10	538	.	.	.	.	.	.	529	56.00	538	533	69.20	541	528	57.90	526	532	41.10	538
Writing	3	.	.	.	467	56.50	467	.	70.30	465	.	.	.	.	.	.	.	.	.	465	51.00	465
	4	.	.	.	486	57.00	485	.	65.10	486	.	.	.	.	.	.	.	.	.	485	52.00	485
	5	.	.	.	508	60.50	508	.	66.20	508	.	.	.	.	.	.	.	.	.	507	55.40	508
	6	.	.	.	525	66.90	523	.	77.00	524	.	.	.	.	.	.	.	.	.	524	61.60	523
	7	.	.	.	554	76.60	553	.	83.60	553	.	.	.	.	.	.	.	.	.	552	70.40	553
	8	.	.	.	566	77.20	565	.	87.20	566	.	.	.	.	.	.	.	.	.	565	71.40	565
	9	.	.	.	563	86.50	561	.	90.70	563	.	.	.	.	.	.	.	.	.	561	79.30	562
	10	.	.	.	577	96.60	574	.	103.40	576	.	.	.	.	.	.	.	.	.	575	88.00	575
Spanish Writing	3	.	.	.	518	82.30	521	.	81.00	498	.	.	.	.	.	.	.	.	.	508	74.20	509
	4	.	.	.	508	43.50	514	.	41.70	519	.	.	.	.	.	.	.	.	.	515	37.90	517
Math - ematics	3	468	113.60	471	477	120.50	469	.	.	.	472	104.90	470	.	.	.	469	113.50	476	467	92.60	470
	4	493	92.90	498	511	123.70	498	.	106.40	497	506	104.80	497	.	.	.	500	105.30	498	493	79.00	497
	5	529	102.50	523	526	95.30	522	.	97.60	524	522	87.80	524	.	.	.	526	99.00	523	520	72.30	523
	6	538	100.30	542	541	96.80	541	.	95.20	542	536	88.00	542	.	.	.	555	121.50	542	537	75.10	541
	7	552	83.70	557	550	97.40	557	.	92.70	559	543	99.00	555	.	.	.	.	.	.	552	75.10	557
	8	564	100.80	580	577	85.00	579	.	90.80	580	570	90.00	579	.	.	.	.	.	.	575	71.90	579
	9	563	107.00	585	578	78.50	584	.	84.60	586	556	108.40	584	.	.	.	.	.	.	578	71.90	585
	10	568	110.90	597	584	87.40	594	.	81.00	595	575	99.80	594	.	.	.	.	.	.	588	73.20	594
Science	5	499	68.70	503	501	84.50	502	.	84.40	505	501	78.80	503	.	.	.	.	.	.	499	63.20	503
	8	499	66.50	505	491	85.80	505	.	74.70	504	494	76.80	505	.	.	.	.	.	.	498	60.90	505
	10	495	67.70	504	484	88.70	503	.	79.40	503	492	79.40	504	.	.	.	.	.	.	495	64.10	504

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Table 156. Scale Score Descriptive Statistics by Subcontent Area

		Content Standard												Content Standard								
		1			2			3			4			5			6			Total		
		Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median
Content	Grade																					
Reading	3	553	84.70	563	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	553	84.70	563
	4	586	67.80	593	.	.	.	.	.	.	585	94.00	593	583	100.50	593	580	89.80	594	585	61.60	593
	5	614	83.60	619	.	.	.	.	.	.	614	87.50	620	611	91.30	621	610	89.40	620	612	67.80	620
	6	630	77.50	636	.	.	.	.	.	.	629	82.00	635	636	102.20	636	625	92.80	636	629	67.50	636
	7	643	72.60	647	.	.	.	.	.	.	644	76.60	648	644	88.00	648	639	82.00	649	641	64.30	648
	8	654	67.60	658	.	.	.	.	.	.	650	80.00	660	654	86.80	659	651	74.30	657	652	60.00	659
	9	662	60.30	666	.	.	.	.	.	.	661	75.20	666	668	74.80	667	657	75.70	665	661	52.70	666
	10	681	66.60	688	.	.	.	.	.	.	679	73.90	687	686	79.60	687	680	73.20	686	681	58.50	687
Spanish Reading	3	519	52.70	524	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	519	52.70	524
	4	532	44.10	538	.	.	.	.	.	.	529	56.00	538	533	69.20	541	528	57.90	526	532	41.10	538
Writing	3	.	.	.	467	56.50	467	.	70.30	465	.	.	.	.	.	.	.	.	.	465	51.00	465
	4	.	.	.	486	57.00	485	.	65.10	486	.	.	.	.	.	.	.	.	.	485	52.00	485
	5	.	.	.	508	60.50	508	.	66.20	508	.	.	.	.	.	.	.	.	.	507	55.40	508
	6	.	.	.	525	66.90	523	.	77.00	524	.	.	.	.	.	.	.	.	.	524	61.60	523
	7	.	.	.	554	76.60	553	.	83.60	553	.	.	.	.	.	.	.	.	.	552	70.40	553
	8	.	.	.	566	77.20	565	.	87.20	566	.	.	.	.	.	.	.	.	.	565	71.40	565
	9	.	.	.	563	86.50	561	.	90.70	563	.	.	.	.	.	.	.	.	.	561	79.30	562
	10	.	.	.	577	96.60	574	.	103.40	576	.	.	.	.	.	.	.	.	.	575	88.00	575
Spanish Writing	3	.	.	.	518	82.30	521	.	81.00	498	.	.	.	.	.	.	.	.	.	508	74.20	509
	4	.	.	.	508	43.50	514	.	41.70	519	.	.	.	.	.	.	.	.	.	515	37.90	517
Math - ematics	3	468	113.60	471	477	120.50	469	.	.	.	472	104.90	470	.	.	.	469	113.50	476	467	92.60	470
	4	493	92.90	498	511	123.70	498	.	106.40	497	506	104.80	497	.	.	.	500	105.30	498	493	79.00	497
	5	529	102.50	523	526	95.30	522	.	97.60	524	522	87.80	524	.	.	.	526	99.00	523	520	72.30	523
	6	538	100.30	542	541	96.80	541	.	95.20	542	536	88.00	542	.	.	.	555	121.50	542	537	75.10	541
	7	552	83.70	557	550	97.40	557	.	92.70	559	543	99.00	555	.	.	.	.	.	.	552	75.10	557
	8	564	100.80	580	577	85.00	579	.	90.80	580	570	90.00	579	.	.	.	.	.	.	575	71.90	579
	9	563	107.00	585	578	78.50	584	.	84.60	586	556	108.40	584	.	.	.	.	.	.	578	71.90	585
	10	568	110.90	597	584	87.40	594	.	81.00	595	575	99.80	594	.	.	.	.	.	.	588	73.20	594
Science	5	499	68.70	503	501	84.50	502	.	84.40	505	501	78.80	503	.	.	.	.	.	.	499	63.20	503
	8	499	66.50	505	491	85.80	505	.	74.70	504	494	76.80	505	.	.	.	.	.	.	498	60.90	505
	10	495	67.70	504	484	88.70	503	.	79.40	503	492	79.40	504	.	.	.	.	.	.	495	64.10	504

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Table 157. Raw Score Descriptive Statistics by Content Standard

		Content Standard																											
		1				2				3				4				5				6				Total			
		Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max
Content	Grade																												
Reading	**3**	31	10.7	33	59.9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	31	10.7	33	59.9
	4	25	6.7	26	67.0	.	.	.	.	.	.	.	.	12	3.4	12	64.6	11	4.1	11	59.3	10	3.4	10	54.8	57	16.2	60	62.6
	5	20	6.4	22	65.5	.	.	.	.	.	.	.	.	12	3.8	12	59.2	12	3.7	12	58.3	10	3.5	10	50.1	54	15.7	57	59.2
	6	20	5.7	21	65.0	.	.	.	.	.	.	.	.	10	3.8	11	52.2	14	4.2	14	67.9	11	4.1	11	53.3	55	16.0	57	60.3
	7	19	5.4	20	61.7	.	.	.	.	.	.	.	.	13	3.6	13	63.6	13	3.7	14	66.2	12	3.6	12	58.1	57	14.8	59	62.3
	8	20	5.3	21	64.0	.	.	.	.	.	.	.	.	12	3.7	13	60.5	13	4.3	13	63.5	10	3.4	10	50.5	54	15.0	56	60.2
	9	20	5.6	21	64.1	.	.	.	.	.	.	.	.	13	4.2	14	63.0	14	4.2	15	68.8	10	4.1	10	49.2	57	16.4	60	61.7
	10	20	6.4	21	61.8	.	.	.	.	.	.	.	.	11	3.8	12	54.2	14	4.2	15	67.1	12	4.2	12	54.9	57	16.8	60	59.8
Spanish Reading	**3**	30	10.2	32	58.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30	10.2	32	58.1
	4	23	6.9	24	63.0	.	.	.	.	.	.	.	.	10	3.5	10	53.8	10	3.7	10	54.6	9	3.2	8	48.4	52	15.3	53	56.7
Writing	**3**	.	.	.	.	18	3.1	19	75.9	25	5.6	26	78.0	.	.	.	.	.	.	.	.	.	.	.	.	43	8.3	45	77.1
	4	.	.	.	.	24	5.4	24	66.4	25	5.6	26	75.4	.	.	.	.	.	.	.	.	.	.	.	.	49	10.3	50	70.6
	5	.	.	.	.	25	5.2	25	68.5	24	5.6	26	74.3	.	.	.	.	.	.	.	.	.	.	.	.	49	10.3	51	71.2
	6	.	.	.	.	25	5.1	25	68.1	24	6.1	25	72.2	.	.	.	.	.	.	.	.	.	.	.	.	48	10.5	50	70.0
	7	.	.	.	.	24	5.2	25	67.7	23	5.7	24	71.3	.	.	.	.	.	.	.	.	.	.	.	.	48	10.3	49	69.4
	8	.	.	.	.	24	5.3	25	67.5	24	5.9	25	72.4	.	.	.	.	.	.	.	.	.	.	.	.	48	10.6	50	69.8
	9	.	.	.	.	24	5.6	24	66.7	22	6.1	23	67.8	.	.	.	.	.	.	.	.	.	.	.	.	46	11.0	48	67.2
	10	.	.	.	.	25	5.5	25	68.3	25	6.1	26	74.6	.	.	.	.	.	.	.	.	.	.	.	.	49	11.0	51	71.3
Spanish Writing	**3**	.	.	.	.	16	4.8	17	66.3	23	5.9	24	71.6	.	.	.	.	.	.	.	.	.	.	.	.	39	10.1	41	69.3
	4	.	.	.	.	18	5.0	19	53.6	20	5.7	19	56.2	.	.	.	.	.	.	.	.	.	.	.	.	38	9.6	37	55.0
Math - ematics	**3**	6	2.4	7	63.5	9	3.1	10	69.8	.	.	.	.	12	3.3	12	69.3	.	.	.	.	6	2.2	7	64.1	34	9.7	35	67.2
	4	11	4.3	11	56.9	10	3.0	11	72.7	8	3.5	9	59.9	23	4.8	24	78.5	.	.	.	.	13	3.9	14	69.2	66	17.4	68	68.6
	5	12	4.4	13	65.5	12	3.9	12	65.0	13	4.1	13	66.5	13	4.1	13	62.0	.	.	.	.	13	4.1	13	67.1	63	18.5	65	65.2
	6	10	4.4	10	56.2	11	3.9	12	62.1	9	3.4	9	58.2	12	4.1	12	56.2	.	.	.	.	9	2.9	10	69.6	52	16.7	52	59.8
	7	14	5.4	13	52.8	9	4.0	9	52.7	9	3.7	10	52.1	11	5.8	10	42.8	.	.	.	.	.	.	.	.	43	17.3	42	49.6
	8	10	5.0	9	43.4	12	4.6	12	55.7	9	3.7	10	55.5	12	5.1	11	45.8	.	.	.	.	.	.	.	.	43	16.9	42	49.6
	9	7	3.8	7	42.8	12	5.5	12	46.5	10	4.1	10	46.5	7	4.8	6	32.4	.	.	.	.	.	.	.	.	37	16.6	34	42.1
	10	6	3.3	6	39.9	11	6.0	10	42.6	9	3.5	8	41.1	8	4.9	7	34.8	.	.	.	.	.	.	.	.	34	16.1	31	39.7
Science	**5**	21	6.5	22	59.4	11	3.6	11	61.0	11	2.7	12	66.5	10	3.1	10	58.4	.	.	.	.	.	.	.	.	54	14.2	55	60.9
	8	21	8.3	22	55.1	9	3.8	9	44.4	9	3.8	9	46.6	9	3.5	8	40.8	.	.	.	.	.	.	.	.	48	17.3	48	48.2
	10	24	8.0	25	57.3	7	3.3	7	38.7	8	3.2	8	44.7	9	3.7	10	47.1	.	.	.	.	.	.	.	.	49	16.1	50	49.6

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Table 158. Raw Score Descriptive Statistics by Subcontent Areaa

		Sub-Content Standard								Sub-Content Standard								Sub-Content Standard								Sub-Content Standard								Sub-Content Standard			
		1				2				3				4				5				6				7				8				Total			
		Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max	Mean	SD	Median	Mean % of Max
Content	Grade																																				
Reading	**3**	13	4.8	13	58.4	11	4.6	12	56.6	7	2.3	7	69.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	31	10.7	33	59.9
	4	24	7.0	25	59.1	15	4.4	16	67.2	7	2.1	8	73.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	57	16.2	60	62.6
	5	23	7.1	25	57.1	12	4.3	12	58.0	7	2.2	8	71.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	15.7	57	59.2
	6	23	7.6	24	54.7	9	3.8	10	55.2	8	2.2	9	76.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	55	16.0	57	60.3
	7	10	3.0	11	71.5	12	4.2	13	53.7	8	2.2	8	71.4	13	3.9	14	57.9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	57	14.8	59	62.3
	8	7	2.7	7	59.1	15	4.1	16	63.4	9	2.3	9	73.4	10	3.9	10	47.4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	15.0	56	60.2
	9	12	4.4	12	54.6	16	5.0	17	61.8	7	2.0	8	72.1	8	3.0	8	54.7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	57	16.4	60	61.7
	10	16	5.0	17	61.1	11	5.1	12	47.9	9	2.6	9	66.3	7	2.5	8	60.5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	57	16.8	60	59.8
Spanish Reading	**3**	15	5.2	15	61.0	9	3.7	9	53.7	7	2.6	7	58.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	30	10.2	32	58.1
	4	20	6.9	21	53.3	14	4.5	14	58.4	7	2.1	8	67.8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	52	15.3	53	56.7
Writing	**3**	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	16	2.7	17	76.6	.	.	.	.	8	2.1	9	76.0	14	3.6	15	77.2	43	8.3	45	77.1
	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.1	13	62.0	8	1.9	8	71.9	14	2.8	14	79.8	9	3.2	10	66.9	49	10.3	50	70.6
	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10	2.4	10	64.5	8	1.7	8	72.2	13	3.4	14	72.8	14	3.8	15	72.9	49	10.3	51	71.2
	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	2.7	12	64.9	8	1.5	8	73.0	16	4.3	17	71.6	11	3.4	12	70.0	48	10.5	50	70.0
	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	2.8	13	64.9	8	1.6	9	76.7	18	4.4	18	73.1	8	2.8	8	61.2	48	10.3	49	69.4
	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	14	3.4	14	62.6	9	1.7	9	80.3	14	3.7	15	73.7	12	3.5	12	68.3	48	10.6	50	69.8
	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	2.9	12	64.0	9	1.8	9	78.5	15	4.5	16	67.9	11	3.5	11	62.5	46	11.0	48	67.2
	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	3.2	13	64.7	8	1.9	9	76.9	16	4.4	18	78.4	9	2.8	9	65.2	49	11.0	51	71.3
Spanish Writing	**3**	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10	3.9	11	69.0	.	.	.	.	15	3.8	15	72.5	7	2.5	7	66.4	39	10.1	41	69.3
	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9	3.0	9	48.2	6	2.2	7	57.8	12	3.7	12	61.6	6	2.8	6	46.0	38	9.6	37	55.0
Math - ematics	**3**	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34	9.7	35	67.2
	4	17	5.8	17	59.5	9	2.9	10	72.0	8	2.2	8	74.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	66	17.4	68	68.6
	5	10	3.5	10	66.4	9	3.4	10	62.0	10	3.3	11	68.8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	63	18.5	65	65.2
	6	10	4.5	10	57.7	10	3.8	10	59.3	6	2.9	6	45.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	52	16.7	52	59.8
	7	6	3.2	6	45.1	8	4.7	6	38.4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	43	17.3	42	49.6
	8	10	3.8	10	55.8	7	3.3	7	47.3	4	2.6	4	39.6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	43	16.9	42	49.6
	9	7	3.9	7	42.3	7	4.4	6	38.8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	37	16.6	34	42.1
	10	6	3.7	6	39.1	4	1.8	4	40.4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34	16.1	31	39.7
Science	**5**	10	3.3	11	61.1	9	2.8	9	63.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	54	14.2	55	60.9
	8	11	4.3	11	53.1	9	3.9	9	55.7	5	2.6	5	41.7	.	.	.	.	6	2.4	6	47.2	5	2.1	5	41.2	.	.	.	.	.	.	.	.	48	17.3	48	48.2
	10	10	3.8	11	56.9	11	3.8	11	59.9	.	.	.	.	3	1.7	3	49.9	4	1.8	3	35.4	6	2.6	6	47.9	.	.	.	.	.	.	.	.	49	16.1	50	49.6

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Table 159. Reading Grade 3 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
150	685	1.13	685	1.13	**252**	1	0.00	788	1.29	**300**	6	0.01	971	1.59
170	1	0.00	686	1.13	**254**	4	0.01	792	1.30	**301**	5	0.01	976	1.60
174	1	0.00	687	1.13	**255**	1	0.00	793	1.30	**302**	8	0.01	984	1.62
197	1	0.00	688	1.13	**256**	2	0.00	795	1.31	**303**	4	0.01	988	1.62
198	1	0.00	689	1.13	**257**	2	0.00	797	1.31	**304**	2	0.00	990	1.63
199	2	0.00	691	1.13	**258**	6	0.01	803	1.32	**305**	7	0.01	997	1.64
200	2	0.00	693	1.14	**259**	1	0.00	804	1.32	**306**	3	0.00	1000	1.64
201	3	0.00	696	1.14	**260**	3	0.00	807	1.33	**307**	6	0.01	1006	1.65
204	5	0.01	701	1.15	**261**	4	0.01	811	1.33	**308**	7	0.01	1013	1.66
205	3	0.00	704	1.16	**262**	5	0.01	816	1.34	**309**	5	0.01	1018	1.67
206	3	0.00	707	1.16	**263**	6	0.01	822	1.35	**310**	4	0.01	1022	1.68
207	2	0.00	709	1.16	**264**	1	0.00	823	1.35	**311**	5	0.01	1027	1.69
208	3	0.00	712	1.17	**265**	5	0.01	828	1.36	**312**	7	0.01	1034	1.70
209	2	0.00	714	1.17	**266**	5	0.01	833	1.37	**313**	2	0.00	1036	1.70
210	1	0.00	715	1.17	**267**	2	0.00	835	1.37	**314**	6	0.01	1042	1.71
211	3	0.00	718	1.18	**268**	5	0.01	840	1.38	**315**	3	0.00	1045	1.72
212	1	0.00	719	1.18	**269**	4	0.01	844	1.39	**316**	7	0.01	1052	1.73
213	3	0.00	722	1.19	**270**	6	0.01	850	1.40	**317**	7	0.01	1059	1.74
217	2	0.00	724	1.19	**271**	4	0.01	854	1.40	**318**	11	0.02	1070	1.76
218	5	0.01	729	1.20	**272**	2	0.01	858	1.41	**319**	7	0.01	1077	1.77
219	2	0.00	731	1.20	**273**	3	0.01	863	1.42	**320**	9	0.01	1086	1.78
220	2	0.00	733	1.20	**274**	4	0.01	867	1.42	**321**	12	0.02	1098	1.80
221	4	0.01	737	1.21	**275**	5	0.00	869	1.43	**322**	5	0.01	1103	1.81
222	2	0.00	739	1.21	**276**	6	0.01	875	1.44	**323**	10	0.02	1113	1.83
223	2	0.00	741	1.22	**277**	7	0.01	882	1.45	**324**	10	0.02	1123	1.84
224	2	0.00	743	1.22	**278**	4	0.01	886	1.46	**325**	7	0.01	1130	1.86
226	2	0.00	745	1.22	**279**	3	0.00	889	1.46	**326**	9	0.01	1139	1.87
227	5	0.01	750	1.23	**280**	2	0.00	891	1.46	**327**	9	0.01	1148	1.89
228	1	0.00	751	1.23	**281**	6	0.01	897	1.47	**328**	7	0.01	1155	1.90
229	1	0.00	752	1.24	**282**	2	0.00	899	1.48	**329**	8	0.01	1163	1.91
231	1	0.00	753	1.24	**283**	4	0.01	903	1.48	**330**	5	0.01	1168	1.92
232	4	0.01	757	1.24	**284**	6	0.01	909	1.49	**331**	11	0.02	1179	1.94
233	3	0.00	760	1.25	**285**	5	0.01	914	1.50	**332**	9	0.01	1188	1.95
234	1	0.00	761	1.25	**286**	5	0.01	919	1.51	**333**	7	0.01	1195	1.96
236	2	0.00	763	1.25	**287**	3	0.00	922	1.51	**334**	7	0.01	1202	1.97
237	2	0.00	765	1.26	**288**	4	0.01	926	1.52	**335**	10	0.02	1212	1.99
239	1	0.00	766	1.26	**289**	4	0.01	930	1.53	**336**	9	0.01	1221	2.01
241	2	0.00	768	1.26	**290**	5	0.01	935	1.54	**337**	10	0.02	1231	2.02
242	3	0.00	771	1.27	**291**	1	0.00	936	1.54	**338**	8	0.01	1239	2.04
243	1	0.00	772	1.27	**292**	4	0.01	940	1.54	**339**	13	0.02	1252	2.06
244	2	0.00	774	1.27	**293**	2	0.00	942	1.55	**340**	9	0.01	1261	2.07
245	3	0.00	777	1.28	**294**	2	0.00	944	1.55	**341**	8	0.01	1269	2.08
246	3	0.00	780	1.28	**295**	4	0.01	948	1.56	**342**	9	0.01	1278	2.10
248	2	0.00	782	1.28	**296**	3	0.00	951	1.56	**343**	13	0.02	1291	2.12
249	1	0.00	783	1.29	**297**	5	0.01	956	1.57	**344**	10	0.02	1301	2.14
250	2	0.00	785	1.29	**298**	6	0.01	962	1.58	**345**	10	0.02	1311	2.15
251	2	0.00	787	1.29	**299**	3	0.00	965	1.58	**346**	11	0.02	1322	2.17

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Table 159. Reading Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
347	8	0.01	1330	2.18	**394**	32	0.05	2395	3.93	**441**	72	0.12	4772	7.84
348	10	0.02	1340	2.20	**395**	38	0.06	2433	4.00	**442**	78	0.13	4850	7.97
349	16	0.03	1356	2.23	**396**	44	0.07	2477	4.07	**443**	86	0.14	4936	8.11
350	23	0.04	1379	2.26	**397**	37	0.06	2514	4.13	**444**	62	0.10	4998	8.21
351	13	0.02	1392	2.29	**398**	38	0.06	2552	4.19	**445**	71	0.12	5069	8.33
352	17	0.03	1409	2.31	**399**	26	0.04	2578	4.23	**446**	69	0.11	5138	8.44
353	14	0.02	1423	2.34	**400**	35	0.06	2613	4.29	**447**	74	0.12	5212	8.56
354	17	0.03	1440	2.37	**401**	48	0.08	2661	4.37	**448**	92	0.15	5304	8.71
355	16	0.03	1456	2.39	**402**	40	0.07	2701	4.44	**449**	87	0.14	5391	8.85
356	8	0.01	1464	2.40	**403**	43	0.07	2744	4.51	**450**	78	0.13	5469	8.98
357	18	0.03	1482	2.43	**404**	44	0.07	2788	4.58	**451**	92	0.15	5561	9.13
358	20	0.03	1502	2.47	**405**	37	0.06	2825	4.64	**452**	84	0.14	5645	9.27
359	17	0.03	1519	2.49	**406**	38	0.06	2863	4.70	**453**	77	0.13	5722	9.40
360	16	0.03	1535	2.52	**407**	45	0.07	2908	4.78	**454**	73	0.12	5795	9.52
361	18	0.03	1553	2.55	**408**	50	0.08	2958	4.86	**455**	90	0.15	5885	9.67
362	21	0.03	1574	2.59	**409**	50	0.08	3008	4.94	**456**	100	0.16	5985	9.83
363	16	0.03	1590	2.61	**410**	42	0.07	3050	5.01	**457**	108	0.18	6093	10.01
364	16	0.03	1606	2.64	**411**	50	0.08	3100	5.09	**458**	107	0.18	6200	10.18
365	18	0.03	1624	2.67	**412**	51	0.08	3151	5.18	**459**	107	0.18	6307	10.36
366	16	0.03	1640	2.69	**413**	43	0.07	3194	5.25	**460**	98	0.16	6405	10.52
367	18	0.03	1658	2.72	**414**	57	0.09	3251	5.34	**461**	102	0.17	6507	10.69
368	18	0.03	1676	2.75	**415**	53	0.09	3304	5.43	**462**	81	0.13	6588	10.82
369	23	0.04	1699	2.79	**416**	42	0.07	3346	5.50	**463**	112	0.18	6700	11.00
370	30	0.05	1729	2.84	**417**	41	0.07	3387	5.56	**464**	106	0.17	6806	11.18
371	25	0.04	1754	2.88	**418**	41	0.07	3428	5.63	**465**	134	0.22	6940	11.40
372	25	0.04	1779	2.92	**419**	40	0.07	3468	5.70	**466**	118	0.19	7058	11.59
373	29	0.05	1808	2.97	**420**	45	0.07	3513	5.77	**467**	125	0.21	7183	11.80
374	14	0.02	1822	2.99	**421**	52	0.09	3565	5.86	**468**	131	0.22	7314	12.01
375	22	0.04	1844	3.03	**422**	60	0.10	3625	5.95	**469**	104	0.17	7418	12.18
376	21	0.03	1865	3.06	**423**	57	0.09	3682	6.05	**470**	108	0.18	7526	12.36
377	23	0.04	1888	3.10	**424**	46	0.08	3728	6.12	**471**	138	0.23	7664	12.59
378	24	0.04	1912	3.14	**425**	54	0.09	3782	6.21	**472**	98	0.16	7762	12.75
379	23	0.04	1935	3.18	**426**	48	0.08	3830	6.29	**473**	127	0.21	7889	12.96
380	19	0.03	1954	3.21	**427**	44	0.07	3874	6.36	**474**	123	0.20	8012	13.16
381	31	0.05	1985	3.26	**428**	64	0.11	3938	6.47	**475**	137	0.23	8149	13.38
382	40	0.07	2025	3.33	**429**	66	0.11	4004	6.58	**476**	131	0.22	8280	13.60
383	22	0.04	2047	3.36	**430**	71	0.12	4075	6.69	**477**	131	0.22	8411	13.81
384	33	0.05	2080	3.42	**431**	57	0.09	4132	6.79	**478**	145	0.24	8556	14.05
385	30	0.05	2110	3.47	**432**	59	0.10	4191	6.88	**479**	157	0.26	8713	14.31
386	28	0.05	2138	3.51	**433**	54	0.09	4245	6.97	**480**	122	0.20	8835	14.51
387	29	0.05	2167	3.56	**434**	58	0.10	4303	7.07	**481**	124	0.20	8959	14.71
388	22	0.04	2189	3.60	**435**	66	0.11	4369	7.18	**482**	137	0.23	9096	14.94
389	33	0.05	2222	3.65	**436**	77	0.13	4446	7.30	**483**	149	0.24	9245	15.18
390	39	0.06	2261	3.71	**437**	65	0.11	4511	7.41	**484**	161	0.26	9406	15.45
391	36	0.06	2297	3.77	**438**	62	0.10	4573	7.51	**485**	164	0.27	9570	15.72
392	29	0.05	2326	3.82	**439**	66	0.11	4639	7.62	**486**	159	0.26	9729	15.98
393	37	0.06	2363	3.88	**440**	61	0.10	4700	7.72	**487**	150	0.25	9879	16.23

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Table 159. Reading Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
488	168	0.28	10047	16.50	**535**	316	0.52	21122	34.69	**582**	359	0.59	37342	61.33
489	178	0.29	10225	16.79	**536**	280	0.46	21402	35.15	**583**	364	0.60	37706	61.93
490	151	0.25	10376	17.04	**537**	354	0.58	21756	35.73	**584**	334	0.55	38040	62.48
491	187	0.31	10563	17.35	**538**	311	0.51	22067	36.24	**585**	345	0.57	38385	63.05
492	191	0.31	10754	17.66	**539**	282	0.46	22349	36.71	**586**	347	0.57	38732	63.62
493	170	0.28	10924	17.94	**540**	305	0.50	22654	37.21	**587**	339	0.56	39071	64.17
494	177	0.29	11101	18.23	**541**	323	0.53	22977	37.74	**588**	365	0.60	39436	64.77
495	169	0.28	11270	18.51	**542**	288	0.47	23265	38.21	**589**	343	0.56	39779	65.34
496	179	0.29	11449	18.80	**543**	317	0.52	23582	38.73	**590**	343	0.56	40122	65.90
497	159	0.26	11608	19.07	**544**	317	0.52	23899	39.25	**591**	378	0.62	40500	66.52
498	174	0.29	11782	19.35	**545**	316	0.52	24215	39.77	**592**	366	0.60	40866	67.12
499	198	0.33	11980	19.68	**546**	336	0.55	24551	40.32	**593**	352	0.58	41218	67.70
500	174	0.29	12154	19.96	**547**	334	0.55	24885	40.87	**594**	356	0.58	41574	68.28
501	216	0.35	12370	20.32	**548**	329	0.54	25214	41.41	**595**	369	0.61	41943	68.89
502	225	0.37	12595	20.69	**549**	311	0.51	25525	41.92	**596**	335	0.55	42278	69.44
503	229	0.38	12824	21.06	**550**	330	0.54	25855	42.47	**597**	354	0.58	42632	70.02
504	193	0.32	13017	21.38	**551**	333	0.55	26188	43.01	**598**	328	0.54	42960	70.56
505	217	0.36	13234	21.74	**552**	353	0.58	26541	43.59	**599**	333	0.55	43293	71.11
506	214	0.35	13448	22.09	**553**	352	0.58	26893	44.17	**600**	307	0.50	43600	71.61
507	219	0.36	13667	22.45	**554**	343	0.56	27236	44.73	**601**	362	0.59	43962	72.21
508	236	0.39	13903	22.84	**555**	355	0.58	27591	45.32	**602**	299	0.49	44261	72.70
509	242	0.40	14145	23.23	**556**	337	0.55	27928	45.87	**603**	354	0.58	44615	73.28
510	229	0.38	14374	23.61	**557**	350	0.57	28278	46.45	**604**	370	0.61	44985	73.89
511	227	0.37	14601	23.98	**558**	343	0.56	28621	47.01	**605**	327	0.54	45312	74.42
512	267	0.44	14868	24.42	**559**	402	0.66	29023	47.67	**606**	352	0.58	45664	75.00
513	249	0.41	15117	24.83	**560**	374	0.61	29397	48.28	**607**	327	0.54	45991	75.54
514	240	0.39	15357	25.22	**561**	350	0.57	29747	48.86	**608**	309	0.51	46300	76.05
515	234	0.38	15591	25.61	**562**	362	0.59	30109	49.45	**609**	338	0.56	46638	76.60
516	222	0.36	15813	25.97	**563**	345	0.57	30454	50.02	**610**	327	0.54	46965	77.14
517	258	0.42	16071	26.40	**564**	369	0.61	30823	50.63	**611**	335	0.55	47300	77.69
518	255	0.42	16326	26.81	**565**	311	0.51	31134	51.14	**612**	311	0.51	47611	78.20
519	256	0.42	16582	27.24	**566**	388	0.64	31522	51.77	**613**	279	0.46	47890	78.66
520	253	0.42	16835	27.65	**567**	368	0.60	31890	52.38	**614**	272	0.45	48162	79.10
521	284	0.47	17119	28.12	**568**	344	0.57	32234	52.94	**615**	287	0.47	48449	79.58
522	280	0.46	17399	28.58	**569**	398	0.65	32632	53.60	**616**	291	0.48	48740	80.05
523	266	0.44	17665	29.01	**570**	366	0.60	32998	54.20	**617**	308	0.51	49048	80.56
524	278	0.46	17943	29.47	**571**	356	0.58	33354	54.78	**618**	289	0.47	49337	81.03
525	281	0.46	18224	29.93	**572**	351	0.58	33705	55.36	**619**	300	0.49	49637	81.53
526	250	0.41	18474	30.34	**573**	328	0.54	34033	55.90	**620**	297	0.49	49934	82.01
527	263	0.43	18737	30.77	**574**	360	0.59	34393	56.49	**621**	267	0.44	50201	82.45
528	285	0.47	19022	31.24	**575**	375	0.62	34768	57.11	**622**	311	0.51	50512	82.96
529	311	0.51	19333	31.75	**576**	364	0.60	35132	57.70	**623**	291	0.48	50803	83.44
530	287	0.47	19620	32.23	**577**	355	0.58	35487	58.29	**624**	270	0.44	51073	83.89
531	295	0.48	19915	32.71	**578**	403	0.66	35890	58.95	**625**	271	0.45	51344	84.33
532	284	0.47	20199	33.18	**579**	379	0.62	36269	59.57	**626**	255	0.42	51599	84.75
533	301	0.49	20500	33.67	**580**	345	0.57	36614	60.14	**627**	243	0.40	51842	85.15
534	306	0.50	20806	34.17	**581**	369	0.61	36983	60.74	**628**	226	0.37	52068	85.52

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Table 159. Reading Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
629	222	0.36	52290	85.88	**676**	67	0.11	59182	97.20	**723**	24	0.04	60631	99.58
630	222	0.36	52512	86.25	**677**	73	0.12	59255	97.32	**724**	7	0.01	60638	99.60
631	243	0.40	52755	86.65	**678**	60	0.10	59315	97.42	**725**	8	0.01	60646	99.61
632	250	0.41	53005	87.06	**679**	61	0.10	59376	97.52	**726**	20	0.03	60666	99.64
633	233	0.38	53238	87.44	**680**	56	0.09	59432	97.62	**727**	2	0.00	60668	99.65
634	202	0.33	53440	87.77	**681**	50	0.08	59482	97.70	**728**	6	0.01	60674	99.66
635	222	0.36	53662	88.14	**682**	66	0.11	59548	97.81	**729**	19	0.03	60693	99.69
636	203	0.33	53865	88.47	**683**	41	0.07	59589	97.87	**730**	10	0.02	60703	99.70
637	196	0.32	54061	88.79	**684**	36	0.06	59625	97.93	**731**	3	0.00	60706	99.71
638	196	0.32	54257	89.12	**685**	57	0.09	59682	98.03	**732**	11	0.02	60717	99.73
639	221	0.36	54478	89.48	**686**	41	0.07	59723	98.09	**733**	2	0.00	60719	99.73
640	178	0.29	54656	89.77	**687**	53	0.09	59776	98.18	**734**	5	0.01	60724	99.74
641	207	0.34	54863	90.11	**688**	50	0.08	59826	98.26	**735**	6	0.01	60730	99.75
642	182	0.30	55045	90.41	**689**	46	0.08	59872	98.34	**736**	10	0.02	60740	99.76
643	201	0.33	55246	90.74	**690**	39	0.06	59911	98.40	**737**	4	0.01	60744	99.77
644	184	0.30	55430	91.04	**691**	27	0.04	59938	98.45	**738**	15	0.02	60759	99.79
645	196	0.32	55626	91.36	**692**	18	0.03	59956	98.48	**739**	9	0.01	60768	99.81
646	161	0.26	55787	91.63	**693**	36	0.06	59992	98.53	**740**	3	0.00	60771	99.81
647	165	0.27	55952	91.90	**694**	36	0.06	60028	98.59	**741**	2	0.00	60773	99.82
648	165	0.27	56117	92.17	**695**	34	0.06	60062	98.65	**743**	6	0.01	60779	99.83
649	144	0.24	56261	92.41	**696**	23	0.04	60085	98.69	**744**	3	0.00	60782	99.83
650	148	0.24	56409	92.65	**697**	26	0.04	60111	98.73	**745**	1	0.00	60783	99.83
651	163	0.27	56572	92.92	**698**	46	0.08	60157	98.81	**746**	1	0.00	60784	99.84
652	159	0.26	56731	93.18	**699**	30	0.05	60187	98.86	**747**	7	0.01	60791	99.85
653	154	0.25	56885	93.43	**700**	35	0.06	60222	98.91	**748**	2	0.00	60793	99.85
654	132	0.22	57017	93.65	**701**	32	0.05	60254	98.97	**749**	3	0.00	60796	99.86
655	105	0.17	57122	93.82	**702**	18	0.03	60272	98.99	**750**	7	0.01	60803	99.87
656	121	0.20	57243	94.02	**703**	26	0.04	60298	99.04	**751**	1	0.00	60804	99.87
657	116	0.19	57359	94.21	**704**	19	0.03	60317	99.07	**753**	1	0.00	60805	99.87
658	120	0.20	57479	94.41	**705**	20	0.03	60337	99.10	**754**	6	0.01	60811	99.88
659	125	0.21	57604	94.61	**706**	16	0.03	60353	99.13	**755**	5	0.01	60816	99.89
660	107	0.18	57711	94.79	**707**	15	0.02	60368	99.15	**756**	2	0.00	60818	99.89
661	119	0.20	57830	94.98	**708**	26	0.04	60394	99.20	**758**	13	0.02	60831	99.91
662	127	0.21	57957	95.19	**709**	14	0.02	60408	99.22	**760**	1	0.00	60832	99.91
663	93	0.15	58050	95.35	**710**	21	0.03	60429	99.25	**763**	1	0.00	60833	99.92
664	118	0.19	58168	95.54	**711**	20	0.03	60449	99.29	**767**	1	0.00	60834	99.92
665	95	0.16	58263	95.70	**712**	7	0.01	60456	99.30	**769**	4	0.01	60838	99.92
666	99	0.16	58362	95.86	**713**	18	0.03	60474	99.33	**770**	2	0.00	60840	99.93
667	93	0.15	58455	96.01	**714**	16	0.03	60490	99.35	**773**	5	0.01	60845	99.94
668	88	0.14	58543	96.15	**715**	14	0.02	60504	99.38	**774**	1	0.00	60846	99.94
669	98	0.16	58641	96.32	**716**	11	0.02	60515	99.39	**776**	2	0.00	60848	99.94
670	75	0.12	58716	96.44	**717**	46	0.08	60561	99.47	**779**	3	0.00	60851	99.95
671	94	0.15	58810	96.59	**718**	11	0.02	60572	99.49	**781**	1	0.00	60852	99.95
672	83	0.14	58893	96.73	**719**	5	0.01	60577	99.50	**784**	4	0.01	60856	99.95
673	79	0.13	58972	96.86	**720**	13	0.02	60590	99.52	**794**	1	0.00	60857	99.96
674	71	0.12	59043	96.98	**721**	13	0.02	60603	99.54	**795**	27	0.04	60884	100
675	72	0.12	59115	97.09	**722**	4	0.01	60607	99.55					

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Table 160. Spanish Reading Grade 3 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	19	1.57	19	1.57	**456**	1	0.08	108	8.93	**503**	9	0.74	383	31.65
309	1	0.08	20	1.65	**457**	2	0.17	110	9.09	**504**	12	0.99	395	32.64
324	1	0.08	21	1.74	**458**	8	0.66	118	9.75	**505**	6	0.50	401	33.14
343	1	0.08	22	1.82	**459**	2	0.17	120	9.92	**506**	7	0.58	408	33.72
363	1	0.08	23	1.90	**460**	2	0.17	122	10.08	**507**	12	0.99	420	34.71
382	1	0.08	24	1.98	**461**	1	0.08	123	10.17	**508**	11	0.91	431	35.62
384	1	0.08	25	2.07	**462**	1	0.08	124	10.25	**509**	17	1.40	448	37.02
387	1	0.08	26	2.15	**463**	2	0.17	126	10.41	**510**	9	0.74	457	37.77
398	1	0.08	27	2.23	**464**	4	0.33	130	10.74	**511**	13	1.07	470	38.84
399	2	0.17	29	2.40	**465**	7	0.58	137	11.32	**512**	12	0.99	482	39.83
400	3	0.25	32	2.64	**466**	4	0.33	141	11.65	**513**	10	0.83	492	40.66
402	1	0.08	33	2.73	**467**	5	0.41	146	12.07	**514**	5	0.41	497	41.07
403	1	0.08	34	2.81	**468**	3	0.25	149	12.31	**515**	13	1.07	510	42.15
407	1	0.08	35	2.89	**469**	3	0.25	152	12.56	**516**	12	0.99	522	43.14
409	4	0.33	39	3.22	**470**	3	0.25	155	12.81	**517**	8	0.66	530	43.80
412	1	0.08	40	3.31	**471**	5	0.41	160	13.22	**518**	9	0.74	539	44.55
413	1	0.08	41	3.39	**472**	3	0.25	163	13.47	**519**	13	1.07	552	45.62
414	3	0.25	44	3.64	**473**	7	0.58	170	14.05	**520**	6	0.50	558	46.12
415	1	0.08	45	3.72	**474**	7	0.58	177	14.63	**521**	13	1.07	571	47.19
416	1	0.08	46	3.80	**475**	5	0.41	182	15.04	**522**	18	1.49	589	48.68
419	3	0.25	49	4.05	**476**	3	0.25	185	15.29	**523**	10	0.83	599	49.50
421	1	0.08	50	4.13	**477**	4	0.33	189	15.62	**524**	9	0.74	608	50.25
424	3	0.25	53	4.38	**478**	4	0.33	193	15.95	**525**	9	0.74	617	50.99
426	1	0.08	54	4.46	**479**	6	0.50	199	16.45	**526**	12	0.99	629	51.98
427	2	0.17	56	4.63	**480**	5	0.41	204	16.86	**527**	15	1.24	644	53.22
428	1	0.08	57	4.71	**481**	2	0.17	206	17.02	**528**	9	0.74	653	53.97
429	1	0.08	58	4.79	**482**	7	0.58	213	17.60	**529**	12	0.99	665	54.96
430	1	0.08	59	4.88	**483**	7	0.58	220	18.18	**530**	10	0.83	675	55.79
433	1	0.08	60	4.96	**484**	5	0.41	225	18.60	**531**	11	0.91	686	56.69
435	1	0.08	61	5.04	**485**	12	0.99	237	19.59	**532**	17	1.40	703	58.10
437	3	0.25	64	5.29	**486**	5	0.41	242	20.00	**533**	8	0.66	711	58.76
438	2	0.17	66	5.45	**487**	4	0.33	246	20.33	**534**	6	0.50	717	59.26
440	2	0.17	68	5.62	**488**	7	0.58	253	20.91	**535**	14	1.16	731	60.41
441	2	0.17	70	5.79	**489**	12	0.99	265	21.90	**536**	14	1.16	745	61.57
442	3	0.25	73	6.03	**490**	7	0.58	272	22.48	**537**	6	0.50	751	62.07
444	1	0.08	74	6.12	**491**	8	0.66	280	23.14	**538**	11	0.91	762	62.98
445	3	0.25	77	6.36	**492**	8	0.66	288	23.80	**539**	8	0.66	770	63.64
446	3	0.25	80	6.61	**493**	8	0.66	296	24.46	**540**	14	1.16	784	64.79
447	3	0.25	83	6.86	**494**	7	0.58	303	25.04	**541**	8	0.66	792	65.45
448	3	0.25	86	7.11	**495**	7	0.58	310	25.62	**542**	12	0.99	804	66.45
449	3	0.25	89	7.36	**496**	9	0.74	319	26.36	**543**	15	1.24	819	67.69
450	2	0.17	91	7.52	**497**	8	0.66	327	27.02	**544**	7	0.58	826	68.26
451	2	0.17	93	7.69	**498**	7	0.58	334	27.60	**545**	15	1.24	841	69.50
452	2	0.17	95	7.85	**499**	15	1.24	349	28.84	**546**	12	0.99	853	70.50
453	6	0.50	101	8.35	**500**	10	0.83	359	29.67	**547**	10	0.83	863	71.32
454	3	0.25	104	8.60	**501**	2	0.17	361	29.83	**548**	9	0.74	872	72.07
455	3	0.25	107	8.84	**502**	13	1.07	374	30.91	**549**	6	0.50	878	72.56

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Table 160. Spanish Reading Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
550	3	0.25	881	72.81	**598**	1	0.08	1169	96.61
551	7	0.58	888	73.39	**599**	1	0.08	1170	96.69
552	10	0.83	898	74.21	**600**	2	0.17	1172	96.86
553	7	0.58	905	74.79	**601**	3	0.25	1175	97.11
554	15	1.24	920	76.03	**602**	4	0.33	1179	97.44
555	16	1.32	936	77.36	**604**	1	0.08	1180	97.52
556	3	0.25	939	77.60	**605**	5	0.41	1185	97.93
557	9	0.74	948	78.35	**606**	1	0.08	1186	98.02
558	7	0.58	955	78.93	**607**	1	0.08	1187	98.10
559	8	0.66	963	79.59	**608**	1	0.08	1188	98.18
560	7	0.58	970	80.17	**609**	2	0.17	1190	98.35
561	13	1.07	983	81.24	**611**	2	0.17	1192	98.51
562	6	0.50	989	81.74	**612**	2	0.17	1194	98.68
563	10	0.83	999	82.56	**613**	1	0.08	1195	98.76
564	7	0.58	1006	83.14	**615**	1	0.08	1196	98.84
565	8	0.66	1014	83.80	**616**	1	0.08	1197	98.93
566	8	0.66	1022	84.46	**622**	1	0.08	1198	99.01
567	10	0.83	1032	85.29	**623**	3	0.25	1201	99.26
568	4	0.33	1036	85.62	**626**	1	0.08	1202	99.34
569	7	0.58	1043	86.20	**627**	2	0.17	1204	99.50
570	10	0.83	1053	87.02	**632**	1	0.08	1205	99.59
571	9	0.74	1062	87.77	**634**	1	0.08	1206	99.67
572	4	0.33	1066	88.10	**636**	1	0.08	1207	99.75
573	9	0.74	1075	88.84	**643**	1	0.08	1208	99.83
574	9	0.74	1084	89.59	**664**	1	0.08	1209	99.92
575	8	0.66	1092	90.25	**708**	1	0.08	1210	100
576	4	0.33	1096	90.58					
577	7	0.58	1103	91.16					
578	5	0.41	1108	91.57					
580	5	0.41	1113	91.98					
581	2	0.17	1115	92.15					
582	3	0.25	1118	92.40					
583	9	0.74	1127	93.14					
584	5	0.41	1132	93.55					
585	3	0.25	1135	93.80					
586	2	0.17	1137	93.97					
587	2	0.17	1139	94.13					
588	3	0.25	1142	94.38					
589	5	0.41	1147	94.79					
590	3	0.25	1150	95.04					
591	2	0.17	1152	95.21					
592	3	0.25	1155	95.45					
593	2	0.17	1157	95.62					
594	2	0.17	1159	95.79					
595	3	0.25	1162	96.03					
596	3	0.25	1165	96.28					
597	3	0.25	1168	96.53					

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Table 161. Writing Grade 3 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
150	48	0.08	48	0.08	**256**	2	0.00	133	0.22	**308**	7	0.01	290	0.48
164	1	0.00	49	0.08	**257**	1	0.00	134	0.22	**309**	9	0.01	299	0.49
178	1	0.00	50	0.08	**259**	3	0.00	137	0.23	**310**	2	0.00	301	0.50
192	1	0.00	51	0.08	**260**	1	0.00	138	0.23	**311**	4	0.01	305	0.50
193	1	0.00	52	0.09	**261**	1	0.00	139	0.23	**312**	7	0.01	312	0.51
194	2	0.00	54	0.09	**262**	4	0.01	143	0.24	**313**	7	0.01	319	0.52
195	1	0.00	55	0.09	**263**	1	0.00	144	0.24	**314**	2	0.00	321	0.53
200	1	0.00	56	0.09	**264**	3	0.00	147	0.24	**315**	8	0.01	329	0.54
206	1	0.00	57	0.09	**265**	1	0.00	148	0.24	**316**	8	0.01	337	0.55
207	1	0.00	58	0.10	**267**	1	0.00	149	0.25	**317**	10	0.02	347	0.57
208	3	0.00	61	0.10	**268**	4	0.01	153	0.25	**318**	10	0.02	357	0.59
209	2	0.00	63	0.10	**269**	2	0.00	155	0.26	**319**	6	0.01	363	0.60
210	2	0.00	65	0.11	**270**	4	0.01	159	0.26	**320**	7	0.01	370	0.61
212	1	0.00	66	0.11	**271**	2	0.00	161	0.26	**321**	8	0.01	378	0.62
213	2	0.00	68	0.11	**273**	2	0.00	163	0.27	**322**	19	0.03	397	0.65
214	1	0.00	69	0.11	**274**	8	0.01	171	0.28	**323**	8	0.01	405	0.67
216	1	0.00	70	0.12	**275**	2	0.00	173	0.28	**324**	4	0.01	409	0.67
217	2	0.00	72	0.12	**276**	3	0.00	176	0.29	**325**	10	0.02	419	0.69
219	5	0.01	77	0.13	**277**	1	0.00	177	0.29	**326**	11	0.02	430	0.71
220	1	0.00	78	0.13	**278**	1	0.00	178	0.29	**327**	15	0.02	445	0.73
221	1	0.00	79	0.13	**279**	3	0.00	181	0.30	**328**	25	0.04	470	0.77
223	1	0.00	80	0.13	**280**	2	0.00	183	0.30	**329**	10	0.02	480	0.79
224	2	0.00	82	0.13	**281**	3	0.00	186	0.31	**330**	14	0.02	494	0.81
225	1	0.00	83	0.14	**284**	3	0.00	189	0.31	**331**	9	0.01	503	0.83
226	1	0.00	84	0.14	**285**	3	0.00	192	0.32	**332**	15	0.02	518	0.85
228	1	0.00	85	0.14	**286**	1	0.00	193	0.32	**333**	14	0.02	532	0.88
229	2	0.00	87	0.14	**287**	1	0.00	194	0.32	**334**	22	0.04	554	0.91
230	3	0.00	90	0.15	**288**	2	0.00	196	0.32	**335**	9	0.01	563	0.93
232	1	0.00	91	0.15	**289**	5	0.01	201	0.33	**336**	8	0.01	571	0.94
235	1	0.00	92	0.15	**290**	5	0.01	206	0.34	**337**	23	0.04	594	0.98
236	1	0.00	93	0.15	**291**	3	0.00	209	0.34	**338**	21	0.03	615	1.01
237	1	0.00	94	0.15	**292**	4	0.01	213	0.35	**339**	17	0.03	632	1.04
238	1	0.00	95	0.16	**293**	3	0.00	216	0.36	**340**	17	0.03	649	1.07
239	2	0.00	97	0.16	**294**	4	0.01	220	0.36	**341**	16	0.03	665	1.09
241	1	0.00	98	0.16	**295**	7	0.01	227	0.37	**342**	14	0.02	679	1.12
244	3	0.00	101	0.17	**296**	5	0.01	232	0.38	**343**	18	0.03	697	1.15
245	5	0.01	106	0.17	**297**	4	0.01	236	0.39	**344**	31	0.05	728	1.20
246	2	0.00	108	0.18	**298**	3	0.00	239	0.39	**345**	23	0.04	751	1.24
247	1	0.00	109	0.18	**299**	7	0.01	246	0.40	**346**	19	0.03	770	1.27
248	3	0.00	112	0.18	**300**	4	0.01	250	0.41	**347**	28	0.05	798	1.31
249	4	0.01	116	0.19	**301**	4	0.01	254	0.42	**348**	24	0.04	822	1.35
250	2	0.00	118	0.19	**302**	6	0.01	260	0.43	**349**	27	0.04	849	1.40
251	4	0.01	122	0.20	**303**	2	0.00	262	0.43	**350**	34	0.06	883	1.45
252	2	0.00	124	0.20	**304**	4	0.01	266	0.44	**351**	31	0.05	914	1.50
253	3	0.00	127	0.21	**305**	8	0.01	274	0.45	**352**	30	0.05	944	1.55
254	2	0.00	129	0.21	**306**	3	0.00	277	0.46	**353**	26	0.04	970	1.60
255	2	0.00	131	0.22	**307**	6	0.01	283	0.47	**354**	33	0.05	1003	1.65

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Table 161. Writing Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
355	39	0.06	1042	1.71	**402**	180	0.30	5788	9.52	**449**	506	0.83	22063	36.31
356	36	0.06	1078	1.77	**403**	190	0.31	5978	9.84	**450**	494	0.81	22557	37.12
357	35	0.06	1113	1.83	**404**	160	0.26	6138	10.10	**451**	463	0.76	23020	37.88
358	44	0.07	1157	1.90	**405**	216	0.36	6354	10.46	**452**	529	0.87	23549	38.75
359	46	0.08	1203	1.98	**406**	203	0.33	6557	10.79	**453**	488	0.80	24037	39.55
360	51	0.08	1254	2.06	**407**	218	0.36	6775	11.15	**454**	530	0.87	24567	40.43
361	53	0.09	1307	2.15	**408**	213	0.35	6988	11.50	**455**	546	0.90	25113	41.32
362	48	0.08	1355	2.23	**409**	198	0.33	7186	11.82	**456**	536	0.88	25649	42.21
363	62	0.10	1417	2.33	**410**	215	0.35	7401	12.18	**457**	554	0.91	26203	43.12
364	56	0.09	1473	2.42	**411**	261	0.43	7662	12.61	**458**	528	0.87	26731	43.99
365	54	0.09	1527	2.51	**412**	229	0.38	7891	12.99	**459**	566	0.93	27297	44.92
366	47	0.08	1574	2.59	**413**	245	0.40	8136	13.39	**460**	507	0.83	27804	45.75
367	70	0.12	1644	2.71	**414**	239	0.39	8375	13.78	**461**	546	0.90	28350	46.65
368	62	0.10	1706	2.81	**415**	263	0.43	8638	14.21	**462**	525	0.86	28875	47.52
369	82	0.13	1788	2.94	**416**	276	0.45	8914	14.67	**463**	550	0.91	29425	48.42
370	67	0.11	1855	3.05	**417**	272	0.45	9186	15.12	**464**	529	0.87	29954	49.29
371	73	0.12	1928	3.17	**418**	319	0.52	9505	15.64	**465**	545	0.90	30499	50.19
372	68	0.11	1996	3.28	**419**	321	0.53	9826	16.17	**466**	533	0.88	31032	51.06
373	81	0.13	2077	3.42	**420**	315	0.52	10141	16.69	**467**	593	0.98	31625	52.04
374	76	0.13	2153	3.54	**421**	313	0.52	10454	17.20	**468**	499	0.82	32124	52.86
375	80	0.13	2233	3.67	**422**	321	0.53	10775	17.73	**469**	513	0.84	32637	53.71
376	65	0.11	2298	3.78	**423**	337	0.55	11112	18.29	**470**	483	0.79	33120	54.50
377	85	0.14	2383	3.92	**424**	327	0.54	11439	18.82	**471**	540	0.89	33660	55.39
378	79	0.13	2462	4.05	**425**	354	0.58	11793	19.41	**472**	513	0.84	34173	56.23
379	95	0.16	2557	4.21	**426**	366	0.60	12159	20.01	**473**	482	0.79	34655	57.03
380	105	0.17	2662	4.38	**427**	323	0.53	12482	20.54	**474**	505	0.83	35160	57.86
381	101	0.17	2763	4.55	**428**	359	0.59	12841	21.13	**475**	540	0.89	35700	58.75
382	98	0.16	2861	4.71	**429**	378	0.62	13219	21.75	**476**	520	0.86	36220	59.60
383	104	0.17	2965	4.88	**430**	410	0.67	13629	22.43	**477**	502	0.83	36722	60.43
384	117	0.19	3082	5.07	**431**	381	0.63	14010	23.05	**478**	529	0.87	37251	61.30
385	118	0.19	3200	5.27	**432**	428	0.70	14438	23.76	**479**	493	0.81	37744	62.11
386	113	0.19	3313	5.45	**433**	402	0.66	14840	24.42	**480**	506	0.83	38250	62.94
387	115	0.19	3428	5.64	**434**	407	0.67	15247	25.09	**481**	501	0.82	38751	63.77
388	111	0.18	3539	5.82	**435**	398	0.65	15645	25.74	**482**	498	0.82	39249	64.59
389	116	0.19	3655	6.01	**436**	400	0.66	16045	26.40	**483**	472	0.78	39721	65.36
390	144	0.24	3799	6.25	**437**	436	0.72	16481	27.12	**484**	521	0.86	40242	66.22
391	137	0.23	3936	6.48	**438**	394	0.65	16875	27.77	**485**	489	0.80	40731	67.02
392	138	0.23	4074	6.70	**439**	471	0.78	17346	28.54	**486**	470	0.77	41201	67.80
393	153	0.25	4227	6.96	**440**	485	0.80	17831	29.34	**487**	468	0.77	41669	68.57
394	153	0.25	4380	7.21	**441**	404	0.66	18235	30.01	**488**	455	0.75	42124	69.32
395	156	0.26	4536	7.46	**442**	448	0.74	18683	30.74	**489**	402	0.66	42526	69.98
396	159	0.26	4695	7.73	**443**	462	0.76	19145	31.50	**490**	435	0.72	42961	70.69
397	199	0.33	4894	8.05	**444**	488	0.80	19633	32.31	**491**	452	0.74	43413	71.44
398	163	0.27	5057	8.32	**445**	470	0.77	20103	33.08	**492**	469	0.77	43882	72.21
399	191	0.31	5248	8.64	**446**	474	0.78	20577	33.86	**493**	441	0.73	44323	72.94
400	189	0.31	5437	8.95	**447**	478	0.79	21055	34.65	**494**	436	0.72	44759	73.65
401	171	0.28	5608	9.23	**448**	502	0.83	21557	35.47	**495**	397	0.65	45156	74.31

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Table 161. Writing Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
496	394	0.65	45550	74.95	**543**	66	0.11	56864	93.57	**590**	2	0.00	60408	99.40
497	378	0.62	45928	75.58	**544**	46	0.08	56910	93.65	**591**	5	0.01	60413	99.41
498	305	0.50	46233	76.08	**545**	50	0.08	56960	93.73	**592**	1	0.00	60414	99.41
499	331	0.54	46564	76.62	**546**	41	0.07	57001	93.80	**597**	2	0.00	60416	99.42
500	373	0.61	46937	77.24	**547**	54	0.09	57055	93.89	**598**	1	0.00	60417	99.42
501	316	0.52	47253	77.76	**548**	87	0.14	57142	94.03	**599**	2	0.00	60419	99.42
502	432	0.71	47685	78.47	**549**	51	0.08	57193	94.11	**609**	4	0.01	60423	99.43
503	340	0.56	48025	79.03	**550**	1436	2.36	58629	96.48	**611**	2	0.00	60425	99.43
504	431	0.71	48456	79.74	**551**	90	0.15	58719	96.62	**612**	2	0.00	60427	99.44
505	366	0.60	48822	80.34	**552**	58	0.10	58777	96.72	**613**	52	0.09	60479	99.52
506	327	0.54	49149	80.88	**553**	77	0.13	58854	96.85	**615**	1	0.00	60480	99.52
507	321	0.53	49470	81.41	**554**	46	0.08	58900	96.92	**616**	54	0.09	60534	99.61
508	236	0.39	49706	81.79	**555**	68	0.11	58968	97.03	**617**	170	0.28	60704	99.89
509	206	0.34	49912	82.13	**556**	148	0.24	59116	97.28	**618**	2	0.00	60706	99.89
510	221	0.36	50133	82.50	**557**	15	0.02	59131	97.30	**623**	1	0.00	60707	99.90
511	229	0.38	50362	82.87	**558**	124	0.20	59255	97.51	**626**	1	0.00	60708	99.90
512	240	0.39	50602	83.27	**559**	12	0.02	59267	97.53	**629**	11	0.02	60719	99.92
513	340	0.56	50942	83.83	**560**	2	0.00	59269	97.53	**638**	2	0.00	60721	99.92
514	369	0.61	51311	84.43	**561**	20	0.03	59289	97.56	**680**	49	0.08	60770	100
515	299	0.49	51610	84.93	**562**	4	0.01	59293	97.57					
516	304	0.50	51914	85.43	**563**	6	0.01	59299	97.58					
517	474	0.78	52388	86.21	**564**	1	0.00	59300	97.58					
518	343	0.56	52731	86.77	**565**	9	0.01	59309	97.60					
519	179	0.29	52910	87.07	**566**	3	0.00	59312	97.60					
520	174	0.29	53084	87.35	**567**	6	0.01	59318	97.61					
521	174	0.29	53258	87.64	**568**	2	0.00	59320	97.61					
522	94	0.15	53352	87.79	**569**	7	0.01	59327	97.63					
523	67	0.11	53419	87.90	**570**	7	0.01	59334	97.64					
524	138	0.23	53557	88.13	**571**	10	0.02	59344	97.65					
525	218	0.36	53775	88.49	**572**	5	0.01	59349	97.66					
526	192	0.32	53967	88.81	**573**	9	0.01	59358	97.68					
527	109	0.18	54076	88.98	**574**	23	0.04	59381	97.71					
528	290	0.48	54366	89.46	**575**	24	0.04	59405	97.75					
529	303	0.50	54669	89.96	**576**	34	0.06	59439	97.81					
530	435	0.72	55104	90.68	**577**	460	0.76	59899	98.57					
531	222	0.37	55326	91.04	**578**	29	0.05	59928	98.61					
532	242	0.40	55568	91.44	**579**	328	0.54	60256	99.15					
533	228	0.38	55796	91.82	**580**	34	0.06	60290	99.21					
534	608	1.00	56404	92.82	**581**	2	0.00	60292	99.21					
535	87	0.14	56491	92.96	**582**	5	0.01	60297	99.22					
536	45	0.07	56536	93.03	**583**	29	0.05	60326	99.27					
537	97	0.16	56633	93.19	**584**	18	0.03	60344	99.30					
538	41	0.07	56674	93.26	**585**	6	0.01	60350	99.31					
539	21	0.03	56695	93.29	**586**	50	0.08	60400	99.39					
540	48	0.08	56743	93.37	**587**	2	0.00	60402	99.39					
541	19	0.03	56762	93.40	**588**	1	0.00	60403	99.40					
542	36	0.06	56798	93.46	**589**	3	0.00	60406	99.40					

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Table 162. Spanish Writing Grade 3 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
250	9	0.74	9	0.74	**395**	2	0.17	70	5.78	**447**	3	0.25	217	17.92
252	1	0.08	10	0.83	**397**	4	0.33	74	6.11	**448**	4	0.33	221	18.25
261	1	0.08	11	0.91	**398**	4	0.33	78	6.44	**449**	12	0.99	233	19.24
270	1	0.08	12	0.99	**399**	1	0.08	79	6.52	**450**	5	0.41	238	19.65
275	1	0.08	13	1.07	**400**	3	0.25	82	6.77	**451**	4	0.33	242	19.98
284	1	0.08	14	1.16	**401**	4	0.33	86	7.10	**452**	5	0.41	247	20.40
288	1	0.08	15	1.24	**402**	2	0.17	88	7.27	**453**	7	0.58	254	20.97
293	1	0.08	16	1.32	**403**	3	0.25	91	7.51	**454**	8	0.66	262	21.64
296	1	0.08	17	1.40	**404**	4	0.33	95	7.84	**455**	6	0.50	268	22.13
298	1	0.08	18	1.49	**406**	3	0.25	98	8.09	**456**	8	0.66	276	22.79
313	1	0.08	19	1.57	**407**	2	0.17	100	8.26	**457**	3	0.25	279	23.04
314	1	0.08	20	1.65	**408**	1	0.08	101	8.34	**458**	8	0.66	287	23.70
320	1	0.08	21	1.73	**409**	1	0.08	102	8.42	**459**	4	0.33	291	24.03
322	1	0.08	22	1.82	**411**	2	0.17	104	8.59	**460**	3	0.25	294	24.28
323	2	0.17	24	1.98	**412**	4	0.33	108	8.92	**461**	7	0.58	301	24.86
325	1	0.08	25	2.06	**413**	2	0.17	110	9.08	**462**	3	0.25	304	25.10
332	1	0.08	26	2.15	**414**	2	0.17	112	9.25	**463**	5	0.41	309	25.52
334	1	0.08	27	2.23	**416**	2	0.17	114	9.41	**464**	5	0.41	314	25.93
339	1	0.08	28	2.31	**417**	1	0.08	115	9.50	**465**	8	0.66	322	26.59
344	1	0.08	29	2.39	**418**	1	0.08	116	9.58	**466**	9	0.74	331	27.33
345	1	0.08	30	2.48	**419**	3	0.25	119	9.83	**467**	1	0.08	332	27.42
348	1	0.08	31	2.56	**420**	3	0.25	122	10.07	**468**	5	0.41	337	27.83
349	1	0.08	32	2.64	**421**	2	0.17	124	10.24	**469**	2	0.17	339	27.99
350	1	0.08	33	2.73	**422**	4	0.33	128	10.57	**470**	4	0.33	343	28.32
353	1	0.08	34	2.81	**423**	1	0.08	129	10.65	**471**	6	0.50	349	28.82
357	1	0.08	35	2.89	**424**	2	0.17	131	10.82	**472**	6	0.50	355	29.31
360	3	0.25	38	3.14	**425**	4	0.33	135	11.15	**473**	11	0.91	366	30.22
362	1	0.08	39	3.22	**427**	2	0.17	137	11.31	**474**	7	0.58	373	30.80
364	1	0.08	40	3.30	**428**	5	0.41	142	11.73	**475**	7	0.58	380	31.38
366	1	0.08	41	3.39	**429**	2	0.17	144	11.89	**476**	10	0.83	390	32.20
367	1	0.08	42	3.47	**430**	7	0.58	151	12.47	**477**	3	0.25	393	32.45
369	1	0.08	43	3.55	**431**	2	0.17	153	12.63	**478**	4	0.33	397	32.78
372	2	0.17	45	3.72	**432**	3	0.25	156	12.88	**479**	4	0.33	401	33.11
373	2	0.17	47	3.88	**433**	5	0.41	161	13.29	**480**	9	0.74	410	33.86
374	3	0.25	50	4.13	**434**	4	0.33	165	13.63	**481**	3	0.25	413	34.10
376	1	0.08	51	4.21	**435**	4	0.33	169	13.96	**482**	8	0.66	421	34.76
378	2	0.17	53	4.38	**436**	2	0.17	171	14.12	**483**	3	0.25	424	35.01
379	1	0.08	54	4.46	**437**	2	0.17	173	14.29	**484**	3	0.25	427	35.26
380	1	0.08	55	4.54	**438**	6	0.50	179	14.78	**485**	10	0.83	437	36.09
382	3	0.25	58	4.79	**439**	1	0.08	180	14.86	**486**	10	0.83	447	36.91
385	1	0.08	59	4.87	**440**	6	0.50	186	15.36	**487**	10	0.83	457	37.74
386	1	0.08	60	4.95	**441**	3	0.25	189	15.61	**488**	3	0.25	460	37.99
389	2	0.17	62	5.12	**442**	7	0.58	196	16.18	**489**	9	0.74	469	38.73
390	1	0.08	63	5.20	**443**	1	0.08	197	16.27	**490**	6	0.50	475	39.22
391	1	0.08	64	5.28	**444**	4	0.33	201	16.60	**491**	11	0.91	486	40.13
392	3	0.25	67	5.53	**445**	6	0.50	207	17.09	**492**	8	0.66	494	40.79
393	1	0.08	68	5.62	**446**	7	0.58	214	17.67	**493**	7	0.58	501	41.37

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Table 162. Spanish Writing Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
494	6	0.50	507	41.87	**541**	8	0.66	824	68.04	**588**	4	0.33	1050	86.71
495	5	0.41	512	42.28	**542**	8	0.66	832	68.70	**589**	4	0.33	1054	87.04
496	13	1.07	525	43.35	**543**	3	0.25	835	68.95	**590**	3	0.25	1057	87.28
497	5	0.41	530	43.77	**544**	4	0.33	839	69.28	**591**	2	0.17	1059	87.45
498	9	0.74	539	44.51	**545**	6	0.50	845	69.78	**592**	5	0.41	1064	87.86
499	6	0.50	545	45.00	**546**	5	0.41	850	70.19	**593**	6	0.50	1070	88.36
500	7	0.58	552	45.58	**547**	4	0.33	854	70.52	**594**	1	0.08	1071	88.44
501	8	0.66	560	46.24	**548**	3	0.25	857	70.77	**595**	3	0.25	1074	88.69
502	6	0.50	566	46.74	**549**	3	0.25	860	71.02	**596**	6	0.50	1080	89.18
503	8	0.66	574	47.40	**550**	8	0.66	868	71.68	**597**	3	0.25	1083	89.43
504	4	0.33	578	47.73	**551**	3	0.25	871	71.92	**598**	2	0.17	1085	89.60
505	2	0.17	580	47.89	**552**	5	0.41	876	72.34	**599**	6	0.50	1091	90.09
506	5	0.41	585	48.31	**553**	7	0.58	883	72.91	**600**	2	0.17	1093	90.26
507	9	0.74	594	49.05	**554**	3	0.25	886	73.16	**601**	3	0.25	1096	90.50
508	11	0.91	605	49.96	**555**	4	0.33	890	73.49	**602**	1	0.08	1097	90.59
509	7	0.58	612	50.54	**556**	10	0.83	900	74.32	**603**	2	0.17	1099	90.75
510	7	0.58	619	51.11	**557**	8	0.66	908	74.98	**604**	2	0.17	1101	90.92
511	7	0.58	626	51.69	**558**	7	0.58	915	75.56	**605**	3	0.25	1104	91.16
512	7	0.58	633	52.27	**559**	7	0.58	922	76.14	**606**	2	0.17	1106	91.33
513	4	0.33	637	52.60	**560**	7	0.58	929	76.71	**607**	3	0.25	1109	91.58
514	7	0.58	644	53.18	**561**	4	0.33	933	77.04	**608**	4	0.33	1113	91.91
515	7	0.58	651	53.76	**562**	3	0.25	936	77.29	**609**	2	0.17	1115	92.07
516	5	0.41	656	54.17	**563**	6	0.50	942	77.79	**610**	2	0.17	1117	92.24
517	5	0.41	661	54.58	**564**	8	0.66	950	78.45	**613**	2	0.17	1119	92.40
518	9	0.74	670	55.33	**565**	7	0.58	957	79.03	**614**	5	0.41	1124	92.82
519	5	0.41	675	55.74	**566**	2	0.17	959	79.19	**615**	3	0.25	1127	93.06
520	6	0.50	681	56.23	**567**	6	0.50	965	79.69	**616**	3	0.25	1130	93.31
521	2	0.17	683	56.40	**568**	4	0.33	969	80.02	**617**	8	0.66	1138	93.97
522	2	0.17	685	56.56	**569**	4	0.33	973	80.35	**618**	4	0.33	1142	94.30
523	4	0.33	689	56.90	**570**	8	0.66	981	81.01	**619**	5	0.41	1147	94.72
524	7	0.58	696	57.47	**571**	2	0.17	983	81.17	**620**	2	0.17	1149	94.88
525	8	0.66	704	58.13	**572**	5	0.41	988	81.59	**621**	1	0.08	1150	94.96
526	10	0.83	714	58.96	**573**	5	0.41	993	82.00	**622**	1	0.08	1151	95.05
527	5	0.41	719	59.37	**574**	7	0.58	1000	82.58	**623**	2	0.17	1153	95.21
528	5	0.41	724	59.79	**575**	8	0.66	1008	83.24	**624**	5	0.41	1158	95.62
529	5	0.41	729	60.20	**576**	5	0.41	1013	83.65	**625**	1	0.08	1159	95.71
530	8	0.66	737	60.86	**577**	1	0.08	1014	83.73	**626**	3	0.25	1162	95.95
531	11	0.91	748	61.77	**578**	2	0.17	1016	83.90	**629**	2	0.17	1164	96.12
532	17	1.40	765	63.17	**579**	2	0.17	1018	84.06	**630**	4	0.33	1168	96.45
533	9	0.74	774	63.91	**580**	1	0.08	1019	84.15	**631**	3	0.25	1171	96.70
534	5	0.41	779	64.33	**581**	2	0.17	1021	84.31	**632**	2	0.17	1173	96.86
535	10	0.83	789	65.15	**582**	4	0.33	1025	84.64	**633**	1	0.08	1174	96.94
536	6	0.50	795	65.65	**583**	3	0.25	1028	84.89	**635**	2	0.17	1176	97.11
537	6	0.50	801	66.14	**584**	3	0.25	1031	85.14	**636**	2	0.17	1178	97.27
538	1	0.08	802	66.23	**585**	7	0.58	1038	85.71	**637**	2	0.17	1180	97.44
539	5	0.41	807	66.64	**586**	4	0.33	1042	86.04	**638**	2	0.17	1182	97.61
540	9	0.74	816	67.38	**587**	4	0.33	1046	86.37	**640**	1	0.08	1183	97.69

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Table 162. Spanish Writing Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
643	1	0.08	1184	97.77
645	2	0.17	1186	97.94
646	2	0.17	1188	98.10
647	1	0.08	1189	98.18
648	2	0.17	1191	98.35
650	1	0.08	1192	98.43
651	2	0.17	1194	98.60
652	2	0.17	1196	98.76
656	1	0.08	1197	98.84
659	1	0.08	1198	98.93
662	1	0.08	1199	99.01
663	1	0.08	1200	99.09
669	1	0.08	1201	99.17
675	2	0.17	1203	99.34
676	1	0.08	1204	99.42
697	2	0.17	1206	99.59
708	1	0.08	1207	99.67
710	2	0.17	1209	99.83
750	2	0.17	1211	100

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Table 163. Mathematics Grade 3 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
150	89	0.14	89	0.14	**201**	6	0.01	221	0.36	**248**	13	0.02	680	1.10
151	2	0.00	91	0.15	**202**	10	0.02	231	0.37	**249**	26	0.04	706	1.14
152	1	0.00	92	0.15	**203**	3	0.00	234	0.38	**250**	16	0.03	722	1.16
153	1	0.00	93	0.15	**204**	3	0.00	237	0.38	**251**	19	0.03	741	1.19
154	2	0.00	95	0.15	**205**	6	0.01	243	0.39	**252**	19	0.03	760	1.22
155	1	0.00	96	0.15	**206**	4	0.01	247	0.40	**253**	15	0.02	775	1.25
157	1	0.00	97	0.16	**207**	9	0.01	256	0.41	**254**	11	0.02	786	1.27
160	3	0.00	100	0.16	**208**	5	0.01	261	0.42	**255**	23	0.04	809	1.30
161	2	0.00	102	0.16	**209**	10	0.02	271	0.44	**256**	29	0.05	838	1.35
162	3	0.00	105	0.17	**210**	7	0.01	278	0.45	**257**	20	0.03	858	1.38
163	2	0.00	107	0.17	**211**	7	0.01	285	0.46	**258**	20	0.03	878	1.42
164	3	0.00	110	0.18	**212**	8	0.01	293	0.47	**259**	25	0.04	903	1.46
165	1	0.00	111	0.18	**213**	1	0.00	294	0.47	**260**	22	0.04	925	1.49
166	2	0.00	113	0.18	**214**	9	0.01	303	0.49	**261**	22	0.04	947	1.53
167	2	0.00	115	0.19	**215**	10	0.02	313	0.50	**262**	23	0.04	970	1.56
168	4	0.01	119	0.19	**216**	8	0.01	321	0.52	**263**	26	0.04	996	1.61
169	2	0.00	121	0.20	**217**	7	0.01	328	0.53	**264**	24	0.04	1020	1.64
170	2	0.00	123	0.20	**218**	4	0.01	332	0.54	**265**	28	0.05	1048	1.69
171	1	0.00	124	0.20	**219**	5	0.01	337	0.54	**266**	26	0.04	1074	1.73
172	3	0.00	127	0.20	**220**	7	0.01	344	0.55	**267**	29	0.05	1103	1.78
173	4	0.01	131	0.21	**221**	12	0.02	356	0.57	**268**	28	0.05	1131	1.82
174	3	0.00	134	0.22	**222**	10	0.02	366	0.59	**269**	23	0.04	1154	1.86
175	2	0.00	136	0.22	**223**	7	0.01	373	0.60	**270**	27	0.04	1181	1.90
176	2	0.00	138	0.22	**224**	14	0.02	387	0.62	**271**	29	0.05	1210	1.95
177	2	0.00	140	0.23	**225**	10	0.02	397	0.64	**272**	35	0.06	1245	2.01
178	2	0.00	142	0.23	**226**	8	0.01	405	0.65	**273**	37	0.06	1282	2.07
179	2	0.00	144	0.23	**227**	6	0.01	411	0.66	**274**	26	0.04	1308	2.11
180	1	0.00	145	0.23	**228**	8	0.01	419	0.68	**275**	35	0.06	1343	2.16
181	4	0.01	149	0.24	**229**	13	0.02	432	0.70	**276**	25	0.04	1368	2.20
182	2	0.00	151	0.24	**230**	7	0.01	439	0.71	**277**	29	0.05	1397	2.25
183	5	0.01	156	0.25	**231**	7	0.01	446	0.72	**278**	33	0.05	1430	2.30
184	6	0.01	162	0.26	**232**	16	0.03	462	0.74	**279**	41	0.07	1471	2.37
185	4	0.01	166	0.27	**233**	10	0.02	472	0.76	**280**	34	0.05	1505	2.43
186	4	0.01	170	0.27	**234**	13	0.02	485	0.78	**281**	30	0.05	1535	2.47
187	3	0.00	173	0.28	**235**	16	0.03	501	0.81	**282**	30	0.05	1565	2.52
188	2	0.00	175	0.28	**236**	9	0.01	510	0.82	**283**	41	0.07	1606	2.59
189	2	0.00	177	0.29	**237**	11	0.02	521	0.84	**284**	29	0.05	1635	2.64
190	3	0.00	180	0.29	**238**	17	0.03	538	0.87	**285**	40	0.06	1675	2.70
191	2	0.00	182	0.29	**239**	14	0.02	552	0.89	**286**	36	0.06	1711	2.76
192	5	0.01	187	0.30	**240**	14	0.02	566	0.91	**287**	42	0.07	1753	2.83
194	3	0.00	190	0.31	**241**	9	0.01	575	0.93	**288**	38	0.06	1791	2.89
195	4	0.01	194	0.31	**242**	15	0.02	590	0.95	**289**	45	0.07	1836	2.96
196	5	0.01	199	0.32	**243**	12	0.02	602	0.97	**290**	45	0.07	1881	3.03
197	6	0.01	205	0.33	**244**	20	0.03	622	1.00	**291**	45	0.07	1926	3.10
198	2	0.00	207	0.33	**245**	16	0.03	638	1.03	**292**	46	0.07	1972	3.18
199	5	0.01	212	0.34	**246**	18	0.03	656	1.06	**293**	42	0.07	2014	3.25
200	3	0.00	215	0.35	**247**	11	0.02	667	1.08	**294**	43	0.07	2057	3.32

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Table 163. Mathematics Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
295	50	0.08	2107	3.40	**342**	93	0.15	5667	9.13	**389**	188	0.30	12294	19.81
296	64	0.10	2171	3.50	**343**	90	0.15	5757	9.28	**390**	174	0.28	12468	20.10
297	59	0.10	2230	3.59	**344**	89	0.14	5846	9.42	**391**	172	0.28	12640	20.37
298	49	0.08	2279	3.67	**345**	104	0.17	5950	9.59	**392**	163	0.26	12803	20.64
299	54	0.09	2333	3.76	**346**	109	0.18	6059	9.77	**393**	175	0.28	12978	20.92
300	45	0.07	2378	3.83	**347**	127	0.20	6186	9.97	**394**	170	0.27	13148	21.19
301	53	0.09	2431	3.92	**348**	97	0.16	6283	10.13	**395**	189	0.30	13337	21.50
302	51	0.08	2482	4.00	**349**	128	0.21	6411	10.33	**396**	198	0.32	13535	21.81
303	73	0.12	2555	4.12	**350**	95	0.15	6506	10.49	**397**	203	0.33	13738	22.14
304	74	0.12	2629	4.24	**351**	117	0.19	6623	10.67	**398**	186	0.30	13924	22.44
305	71	0.11	2700	4.35	**352**	115	0.19	6738	10.86	**399**	185	0.30	14109	22.74
306	59	0.10	2759	4.45	**353**	110	0.18	6848	11.04	**400**	209	0.34	14318	23.08
307	63	0.10	2822	4.55	**354**	123	0.20	6971	11.24	**401**	175	0.28	14493	23.36
308	69	0.11	2891	4.66	**355**	125	0.20	7096	11.44	**402**	213	0.34	14706	23.70
309	48	0.08	2939	4.74	**356**	133	0.21	7229	11.65	**403**	180	0.29	14886	23.99
310	71	0.11	3010	4.85	**357**	131	0.21	7360	11.86	**404**	205	0.33	15091	24.32
311	60	0.10	3070	4.95	**358**	135	0.22	7495	12.08	**405**	199	0.32	15290	24.64
312	62	0.10	3132	5.05	**359**	144	0.23	7639	12.31	**406**	213	0.34	15503	24.99
313	89	0.14	3221	5.19	**360**	141	0.23	7780	12.54	**407**	198	0.32	15701	25.31
314	74	0.12	3295	5.31	**361**	127	0.20	7907	12.74	**408**	197	0.32	15898	25.62
315	66	0.11	3361	5.42	**362**	127	0.20	8034	12.95	**409**	205	0.33	16103	25.95
316	66	0.11	3427	5.52	**363**	119	0.19	8153	13.14	**410**	183	0.29	16286	26.25
317	76	0.12	3503	5.65	**364**	158	0.25	8311	13.40	**411**	194	0.31	16480	26.56
318	54	0.09	3557	5.73	**365**	142	0.23	8453	13.62	**412**	192	0.31	16672	26.87
319	74	0.12	3631	5.85	**366**	141	0.23	8594	13.85	**413**	211	0.34	16883	27.21
320	75	0.12	3706	5.97	**367**	135	0.22	8729	14.07	**414**	225	0.36	17108	27.57
321	87	0.14	3793	6.11	**368**	134	0.22	8863	14.28	**415**	213	0.34	17321	27.92
322	87	0.14	3880	6.25	**369**	145	0.23	9008	14.52	**416**	219	0.35	17540	28.27
323	62	0.10	3942	6.35	**370**	132	0.21	9140	14.73	**417**	226	0.36	17766	28.63
324	96	0.15	4038	6.51	**371**	139	0.22	9279	14.96	**418**	219	0.35	17985	28.99
325	88	0.14	4126	6.65	**372**	130	0.21	9409	15.16	**419**	230	0.37	18215	29.36
326	59	0.10	4185	6.75	**373**	146	0.24	9555	15.40	**420**	246	0.40	18461	29.75
327	99	0.16	4284	6.90	**374**	155	0.25	9710	15.65	**421**	223	0.36	18684	30.11
328	86	0.14	4370	7.04	**375**	180	0.29	9890	15.94	**422**	231	0.37	18915	30.49
329	86	0.14	4456	7.18	**376**	158	0.25	10048	16.19	**423**	206	0.33	19121	30.82
330	81	0.13	4537	7.31	**377**	148	0.24	10196	16.43	**424**	225	0.36	19346	31.18
331	88	0.14	4625	7.45	**378**	169	0.27	10365	16.71	**425**	232	0.37	19578	31.55
332	84	0.14	4709	7.59	**379**	152	0.24	10517	16.95	**426**	253	0.41	19831	31.96
333	88	0.14	4797	7.73	**380**	175	0.28	10692	17.23	**427**	245	0.39	20076	32.36
334	94	0.15	4891	7.88	**381**	173	0.28	10865	17.51	**428**	284	0.46	20360	32.81
335	103	0.17	4994	8.05	**382**	168	0.27	11033	17.78	**429**	227	0.37	20587	33.18
336	97	0.16	5091	8.21	**383**	171	0.28	11204	18.06	**430**	254	0.41	20841	33.59
337	96	0.15	5187	8.36	**384**	163	0.26	11367	18.32	**431**	232	0.37	21073	33.96
338	107	0.17	5294	8.53	**385**	163	0.26	11530	18.58	**432**	263	0.42	21336	34.39
339	98	0.16	5392	8.69	**386**	207	0.33	11737	18.92	**433**	224	0.36	21560	34.75
340	83	0.13	5475	8.82	**387**	190	0.31	11927	19.22	**434**	225	0.36	21785	35.11
341	99	0.16	5574	8.98	**388**	179	0.29	12106	19.51	**435**	256	0.41	22041	35.52

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Table 163. Mathematics Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
436	247	0.40	22288	35.92	**483**	263	0.42	34833	56.14	**530**	248	0.40	46687	75.25
437	231	0.37	22519	36.29	**484**	242	0.39	35075	56.53	**531**	225	0.36	46912	75.61
438	251	0.40	22770	36.70	**485**	256	0.41	35331	56.94	**532**	206	0.33	47118	75.94
439	250	0.40	23020	37.10	**486**	260	0.42	35591	57.36	**533**	238	0.38	47356	76.33
440	262	0.42	23282	37.52	**487**	261	0.42	35852	57.78	**534**	227	0.37	47583	76.69
441	243	0.39	23525	37.92	**488**	252	0.41	36104	58.19	**535**	224	0.36	47807	77.05
442	250	0.40	23775	38.32	**489**	263	0.42	36367	58.61	**536**	206	0.33	48013	77.38
443	274	0.44	24049	38.76	**490**	264	0.43	36631	59.04	**537**	230	0.37	48243	77.75
444	245	0.39	24294	39.16	**491**	274	0.44	36905	59.48	**538**	209	0.34	48452	78.09
445	270	0.44	24564	39.59	**492**	255	0.41	37160	59.89	**539**	217	0.35	48669	78.44
446	266	0.43	24830	40.02	**493**	268	0.43	37428	60.32	**540**	231	0.37	48900	78.81
447	276	0.44	25106	40.46	**494**	300	0.48	37728	60.81	**541**	214	0.34	49114	79.16
448	233	0.38	25339	40.84	**495**	277	0.45	38005	61.25	**542**	205	0.33	49319	79.49
449	248	0.40	25587	41.24	**496**	296	0.48	38301	61.73	**543**	213	0.34	49532	79.83
450	273	0.44	25860	41.68	**497**	281	0.45	38582	62.18	**544**	184	0.30	49716	80.13
451	229	0.37	26089	42.05	**498**	238	0.38	38820	62.57	**545**	196	0.32	49912	80.44
452	273	0.44	26362	42.49	**499**	253	0.41	39073	62.98	**546**	215	0.35	50127	80.79
453	266	0.43	26628	42.92	**500**	276	0.44	39349	63.42	**547**	206	0.33	50333	81.12
454	303	0.49	26931	43.41	**501**	281	0.45	39630	63.87	**548**	171	0.28	50504	81.40
455	266	0.43	27197	43.83	**502**	249	0.40	39879	64.27	**549**	185	0.30	50689	81.70
456	273	0.44	27470	44.27	**503**	261	0.42	40140	64.69	**550**	182	0.29	50871	81.99
457	272	0.44	27742	44.71	**504**	229	0.37	40369	65.06	**551**	197	0.32	51068	82.31
458	273	0.44	28015	45.15	**505**	242	0.39	40611	65.45	**552**	208	0.34	51276	82.64
459	304	0.49	28319	45.64	**506**	280	0.45	40891	65.91	**553**	178	0.29	51454	82.93
460	282	0.45	28601	46.10	**507**	289	0.47	41180	66.37	**554**	176	0.28	51630	83.21
461	266	0.43	28867	46.53	**508**	238	0.38	41418	66.75	**555**	162	0.26	51792	83.47
462	287	0.46	29154	46.99	**509**	254	0.41	41672	67.16	**556**	172	0.28	51964	83.75
463	273	0.44	29427	47.43	**510**	263	0.42	41935	67.59	**557**	177	0.29	52141	84.04
464	281	0.45	29708	47.88	**511**	258	0.42	42193	68.00	**558**	188	0.30	52329	84.34
465	249	0.40	29957	48.28	**512**	238	0.38	42431	68.39	**559**	182	0.29	52511	84.63
466	227	0.37	30184	48.65	**513**	277	0.45	42708	68.83	**560**	170	0.27	52681	84.91
467	257	0.41	30441	49.06	**514**	241	0.39	42949	69.22	**561**	156	0.25	52837	85.16
468	269	0.43	30710	49.50	**515**	248	0.40	43197	69.62	**562**	139	0.22	52976	85.38
469	276	0.44	30986	49.94	**516**	219	0.35	43416	69.98	**563**	147	0.24	53123	85.62
470	263	0.42	31249	50.37	**517**	232	0.37	43648	70.35	**564**	157	0.25	53280	85.87
471	274	0.44	31523	50.81	**518**	241	0.39	43889	70.74	**565**	140	0.23	53420	86.10
472	274	0.44	31797	51.25	**519**	235	0.38	44124	71.12	**566**	150	0.24	53570	86.34
473	275	0.44	32072	51.69	**520**	221	0.36	44345	71.47	**567**	157	0.25	53727	86.59
474	266	0.43	32338	52.12	**521**	217	0.35	44562	71.82	**568**	163	0.26	53890	86.86
475	272	0.44	32610	52.56	**522**	246	0.40	44808	72.22	**569**	157	0.25	54047	87.11
476	269	0.43	32879	52.99	**523**	231	0.37	45039	72.59	**570**	148	0.24	54195	87.35
477	296	0.48	33175	53.47	**524**	223	0.36	45262	72.95	**571**	155	0.25	54350	87.60
478	276	0.44	33451	53.91	**525**	227	0.37	45489	73.32	**572**	140	0.23	54490	87.82
479	281	0.45	33732	54.37	**526**	228	0.37	45717	73.68	**573**	158	0.25	54648	88.08
480	275	0.44	34007	54.81	**527**	228	0.37	45945	74.05	**574**	147	0.24	54795	88.31
481	250	0.40	34257	55.21	**528**	240	0.39	46185	74.44	**575**	146	0.24	54941	88.55
482	313	0.50	34570	55.72	**529**	254	0.41	46439	74.85	**576**	123	0.20	55064	88.75

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Table 163. Mathematics Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
577	134	0.22	55198	88.96	**624**	117	0.19	59441	95.80	**671**	2	0.00	61059	98.41
578	119	0.19	55317	89.16	**625**	44	0.07	59485	95.87	**672**	18	0.03	61077	98.44
579	113	0.18	55430	89.34	**626**	55	0.09	59540	95.96	**673**	7	0.01	61084	98.45
580	122	0.20	55552	89.54	**627**	39	0.06	59579	96.03	**674**	7	0.01	61091	98.46
581	103	0.17	55655	89.70	**628**	27	0.04	59606	96.07	**676**	12	0.02	61103	98.48
582	123	0.20	55778	89.90	**629**	43	0.07	59649	96.14	**681**	14	0.02	61117	98.50
583	95	0.15	55873	90.05	**630**	22	0.04	59671	96.17	**682**	167	0.27	61284	98.77
584	149	0.24	56022	90.29	**631**	32	0.05	59703	96.23	**683**	4	0.01	61288	98.78
585	130	0.21	56152	90.50	**632**	115	0.19	59818	96.41	**684**	5	0.01	61293	98.79
586	168	0.27	56320	90.77	**633**	38	0.06	59856	96.47	**685**	14	0.02	61307	98.81
587	128	0.21	56448	90.98	**634**	25	0.04	59881	96.51	**687**	1	0.00	61308	98.81
588	109	0.18	56557	91.15	**635**	70	0.11	59951	96.63	**688**	2	0.00	61310	98.82
589	100	0.16	56657	91.32	**636**	19	0.03	59970	96.66	**691**	4	0.01	61314	98.82
590	107	0.17	56764	91.49	**637**	38	0.06	60008	96.72	**692**	1	0.00	61315	98.82
591	104	0.17	56868	91.66	**638**	26	0.04	60034	96.76	**693**	11	0.02	61326	98.84
592	90	0.15	56958	91.80	**639**	9	0.01	60043	96.77	**694**	1	0.00	61327	98.84
593	80	0.13	57038	91.93	**640**	33	0.05	60076	96.83	**697**	7	0.01	61334	98.85
594	92	0.15	57130	92.08	**641**	55	0.09	60131	96.92	**698**	5	0.01	61339	98.86
595	84	0.14	57214	92.21	**642**	103	0.17	60234	97.08	**699**	8	0.01	61347	98.88
596	117	0.19	57331	92.40	**643**	18	0.03	60252	97.11	**700**	698	1.12	62045	100
597	79	0.13	57410	92.53	**644**	123	0.20	60375	97.31					
598	101	0.16	57511	92.69	**645**	27	0.04	60402	97.35					
599	78	0.13	57589	92.82	**646**	45	0.07	60447	97.42					
600	90	0.15	57679	92.96	**647**	4	0.01	60451	97.43					
601	73	0.12	57752	93.08	**648**	6	0.01	60457	97.44					
602	147	0.24	57899	93.32	**649**	9	0.01	60466	97.46					
603	73	0.12	57972	93.44	**650**	25	0.04	60491	97.50					
604	94	0.15	58066	93.59	**651**	65	0.10	60556	97.60					
605	82	0.13	58148	93.72	**652**	22	0.04	60578	97.64					
606	52	0.08	58200	93.80	**653**	17	0.03	60595	97.66					
607	60	0.10	58260	93.90	**654**	36	0.06	60631	97.72					
608	72	0.12	58332	94.02	**655**	63	0.10	60694	97.82					
609	58	0.09	58390	94.11	**656**	44	0.07	60738	97.89					
610	110	0.18	58500	94.29	**657**	48	0.08	60786	97.97					
611	68	0.11	58568	94.40	**658**	26	0.04	60812	98.01					
612	51	0.08	58619	94.48	**659**	5	0.01	60817	98.02					
613	39	0.06	58658	94.54	**660**	7	0.01	60824	98.03					
614	68	0.11	58726	94.65	**661**	29	0.05	60853	98.08					
615	75	0.12	58801	94.77	**662**	21	0.03	60874	98.11					
616	69	0.11	58870	94.88	**663**	19	0.03	60893	98.14					
617	108	0.17	58978	95.06	**664**	7	0.01	60900	98.15					
618	71	0.11	59049	95.17	**665**	9	0.01	60909	98.17					
619	64	0.10	59113	95.27	**666**	12	0.02	60921	98.19					
620	53	0.09	59166	95.36	**667**	101	0.16	61022	98.35					
621	61	0.10	59227	95.46	**668**	24	0.04	61046	98.39					
622	48	0.08	59275	95.54	**669**	7	0.01	61053	98.40					
623	49	0.08	59324	95.61	**670**	4	0.01	61057	98.41					

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Table 164. Reading Grade 4 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
180	308	0.50	308	0.50	**331**	3	0.00	371	0.61	**381**	5	0.01	547	0.90
183	1	0.00	309	0.51	**332**	3	0.00	374	0.61	**382**	6	0.01	553	0.91
198	1	0.00	310	0.51	**333**	1	0.00	375	0.61	**383**	5	0.01	558	0.91
206	1	0.00	311	0.51	**334**	1	0.00	376	0.62	**384**	7	0.01	565	0.92
208	1	0.00	312	0.51	**335**	1	0.00	377	0.62	**385**	3	0.00	568	0.93
214	1	0.00	313	0.51	**336**	4	0.01	381	0.62	**386**	7	0.01	575	0.94
217	1	0.00	314	0.51	**338**	2	0.00	383	0.63	**387**	5	0.01	580	0.95
219	1	0.00	315	0.52	**339**	3	0.00	386	0.63	**388**	7	0.01	587	0.96
222	2	0.00	317	0.52	**340**	4	0.01	390	0.64	**389**	10	0.02	597	0.98
223	1	0.00	318	0.52	**341**	2	0.00	392	0.64	**390**	8	0.01	605	0.99
226	1	0.00	319	0.52	**342**	4	0.01	396	0.65	**391**	5	0.01	610	1.00
227	1	0.00	320	0.52	**344**	4	0.01	400	0.65	**392**	14	0.02	624	1.02
234	1	0.00	321	0.53	**345**	3	0.00	403	0.66	**393**	3	0.00	627	1.03
236	2	0.00	323	0.53	**346**	5	0.01	408	0.67	**394**	5	0.01	632	1.03
238	1	0.00	324	0.53	**347**	5	0.01	413	0.68	**395**	10	0.02	642	1.05
244	1	0.00	325	0.53	**348**	1	0.00	414	0.68	**396**	11	0.02	653	1.07
245	2	0.00	327	0.54	**349**	2	0.00	416	0.68	**397**	5	0.01	658	1.08
246	1	0.00	328	0.54	**350**	4	0.01	420	0.69	**398**	10	0.02	668	1.09
247	1	0.00	329	0.54	**351**	3	0.00	423	0.69	**399**	8	0.01	676	1.11
248	2	0.00	331	0.54	**352**	3	0.00	426	0.70	**400**	10	0.02	686	1.12
252	1	0.00	332	0.54	**353**	3	0.00	429	0.70	**401**	6	0.01	692	1.13
255	1	0.00	333	0.55	**354**	2	0.00	431	0.71	**402**	7	0.01	699	1.14
270	1	0.00	334	0.55	**355**	4	0.01	435	0.71	**403**	13	0.02	712	1.17
271	1	0.00	335	0.55	**356**	2	0.00	437	0.72	**404**	9	0.01	721	1.18
272	1	0.00	336	0.55	**357**	1	0.00	438	0.72	**405**	12	0.02	733	1.20
280	1	0.00	337	0.55	**358**	1	0.00	439	0.72	**406**	9	0.01	742	1.21
282	1	0.00	338	0.55	**360**	6	0.01	445	0.73	**407**	10	0.02	752	1.23
287	1	0.00	339	0.55	**361**	3	0.00	448	0.73	**408**	15	0.02	767	1.26
292	2	0.00	341	0.56	**362**	3	0.00	451	0.74	**409**	18	0.03	785	1.28
298	1	0.00	342	0.56	**363**	3	0.00	454	0.74	**410**	10	0.02	795	1.30
300	1	0.00	343	0.56	**364**	3	0.00	457	0.75	**411**	10	0.02	805	1.32
304	1	0.00	344	0.56	**365**	7	0.01	464	0.76	**412**	16	0.03	821	1.34
306	1	0.00	345	0.56	**366**	6	0.01	470	0.77	**413**	11	0.02	832	1.36
308	1	0.00	346	0.57	**367**	7	0.01	477	0.78	**414**	8	0.01	840	1.38
309	2	0.00	348	0.57	**368**	8	0.01	485	0.79	**415**	5	0.01	845	1.38
310	1	0.00	349	0.57	**369**	5	0.01	490	0.80	**416**	16	0.03	861	1.41
311	2	0.00	351	0.57	**370**	8	0.01	498	0.82	**417**	18	0.03	879	1.44
316	2	0.00	353	0.58	**371**	1	0.00	499	0.82	**418**	12	0.02	891	1.46
317	2	0.00	355	0.58	**372**	5	0.01	504	0.83	**419**	20	0.03	911	1.49
318	1	0.00	356	0.58	**373**	5	0.01	509	0.83	**420**	16	0.03	927	1.52
321	1	0.00	357	0.58	**374**	7	0.01	516	0.84	**421**	14	0.02	941	1.54
324	1	0.00	358	0.59	**375**	5	0.01	521	0.85	**422**	17	0.03	958	1.57
326	1	0.00	359	0.59	**376**	3	0.00	524	0.86	**423**	17	0.03	975	1.60
327	2	0.00	361	0.59	**377**	5	0.01	529	0.87	**424**	21	0.03	996	1.63
328	2	0.00	363	0.59	**378**	5	0.01	534	0.87	**425**	8	0.01	1004	1.64
329	2	0.00	365	0.60	**379**	5	0.01	539	0.88	**426**	14	0.02	1018	1.67
330	3	0.00	368	0.60	**380**	3	0.00	542	0.89	**427**	20	0.03	1038	1.70

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Table 164. Reading Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
428	12	0.02	1050	1.72	**475**	54	0.09	2534	4.15	**522**	164	0.27	7062	11.56
429	12	0.02	1062	1.74	**476**	46	0.08	2580	4.22	**523**	182	0.30	7244	11.86
430	16	0.03	1078	1.76	**477**	58	0.09	2638	4.32	**524**	161	0.26	7405	12.12
431	20	0.03	1098	1.80	**478**	51	0.08	2689	4.40	**525**	163	0.27	7568	12.39
432	24	0.04	1122	1.84	**479**	62	0.10	2751	4.50	**526**	174	0.28	7742	12.67
433	16	0.03	1138	1.86	**480**	58	0.09	2809	4.60	**527**	195	0.32	7937	12.99
434	10	0.02	1148	1.88	**481**	56	0.09	2865	4.69	**528**	189	0.31	8126	13.30
435	20	0.03	1168	1.91	**482**	73	0.12	2938	4.81	**529**	183	0.30	8309	13.60
436	23	0.04	1191	1.95	**483**	55	0.09	2993	4.90	**530**	177	0.29	8486	13.89
437	28	0.05	1219	2.00	**484**	60	0.10	3053	5.00	**531**	205	0.34	8691	14.23
438	24	0.04	1243	2.03	**485**	65	0.11	3118	5.10	**532**	198	0.32	8889	14.55
439	18	0.03	1261	2.06	**486**	58	0.09	3176	5.20	**533**	187	0.31	9076	14.86
440	26	0.04	1287	2.11	**487**	60	0.10	3236	5.30	**534**	211	0.35	9287	15.20
441	19	0.03	1306	2.14	**488**	71	0.12	3307	5.41	**535**	203	0.33	9490	15.53
442	30	0.05	1336	2.19	**489**	63	0.10	3370	5.52	**536**	239	0.39	9729	15.93
443	27	0.04	1363	2.23	**490**	79	0.13	3449	5.65	**537**	207	0.34	9936	16.26
444	23	0.04	1386	2.27	**491**	75	0.12	3524	5.77	**538**	231	0.38	10167	16.64
445	20	0.03	1406	2.30	**492**	88	0.14	3612	5.91	**539**	240	0.39	10407	17.04
446	18	0.03	1424	2.33	**493**	82	0.13	3694	6.05	**540**	238	0.39	10645	17.43
447	14	0.02	1438	2.35	**494**	71	0.12	3765	6.16	**541**	233	0.38	10878	17.81
448	43	0.07	1481	2.42	**495**	87	0.14	3852	6.31	**542**	267	0.44	11145	18.24
449	32	0.05	1513	2.48	**496**	94	0.15	3946	6.46	**543**	257	0.42	11402	18.66
450	35	0.06	1548	2.53	**497**	83	0.14	4029	6.60	**544**	236	0.39	11638	19.05
451	18	0.03	1566	2.56	**498**	78	0.13	4107	6.72	**545**	246	0.40	11884	19.45
452	20	0.03	1586	2.60	**499**	92	0.15	4199	6.87	**546**	305	0.50	12189	19.95
453	29	0.05	1615	2.64	**500**	90	0.15	4289	7.02	**547**	278	0.46	12467	20.41
454	22	0.04	1637	2.68	**501**	100	0.16	4389	7.18	**548**	282	0.46	12749	20.87
455	29	0.05	1666	2.73	**502**	103	0.17	4492	7.35	**549**	259	0.42	13008	21.29
456	28	0.05	1694	2.77	**503**	95	0.16	4587	7.51	**550**	265	0.43	13273	21.73
457	35	0.06	1729	2.83	**504**	99	0.16	4686	7.67	**551**	296	0.48	13569	22.21
458	39	0.06	1768	2.89	**505**	115	0.19	4801	7.86	**552**	298	0.49	13867	22.70
459	42	0.07	1810	2.96	**506**	101	0.17	4902	8.02	**553**	282	0.46	14149	23.16
460	32	0.05	1842	3.02	**507**	115	0.19	5017	8.21	**554**	321	0.53	14470	23.69
461	31	0.05	1873	3.07	**508**	113	0.18	5130	8.40	**555**	317	0.52	14787	24.21
462	42	0.07	1915	3.13	**509**	125	0.20	5255	8.60	**556**	306	0.50	15093	24.71
463	41	0.07	1956	3.20	**510**	133	0.22	5388	8.82	**557**	313	0.51	15406	25.22
464	49	0.08	2005	3.28	**511**	111	0.18	5499	9.00	**558**	347	0.57	15753	25.79
465	44	0.07	2049	3.35	**512**	146	0.24	5645	9.24	**559**	342	0.56	16095	26.35
466	44	0.07	2093	3.43	**513**	139	0.23	5784	9.47	**560**	329	0.54	16424	26.88
467	52	0.09	2145	3.51	**514**	144	0.24	5928	9.70	**561**	354	0.58	16778	27.46
468	35	0.06	2180	3.57	**515**	115	0.19	6043	9.89	**562**	355	0.58	17133	28.05
469	51	0.08	2231	3.65	**516**	126	0.21	6169	10.10	**563**	356	0.58	17489	28.63
470	40	0.07	2271	3.72	**517**	125	0.20	6294	10.30	**564**	364	0.60	17853	29.22
471	46	0.08	2317	3.79	**518**	144	0.24	6438	10.54	**565**	369	0.60	18222	29.83
472	54	0.09	2371	3.88	**519**	152	0.25	6590	10.79	**566**	362	0.59	18584	30.42
473	54	0.09	2425	3.97	**520**	144	0.24	6734	11.02	**567**	399	0.65	18983	31.07
474	55	0.09	2480	4.06	**521**	164	0.27	6898	11.29	**568**	374	0.61	19357	31.69

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Table 164. Reading Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
569	390	0.64	19747	32.32	**616**	471	0.77	42635	69.79	**663**	184	0.30	58037	95.00
570	411	0.67	20158	33.00	**617**	459	0.75	43094	70.54	**664**	176	0.29	58213	95.29
571	374	0.61	20532	33.61	**618**	450	0.74	43544	71.28	**665**	139	0.23	58352	95.52
572	408	0.67	20940	34.28	**619**	455	0.74	43999	72.02	**666**	134	0.22	58486	95.74
573	399	0.65	21339	34.93	**620**	472	0.77	44471	72.80	**667**	143	0.23	58629	95.97
574	453	0.74	21792	35.67	**621**	442	0.72	44913	73.52	**668**	124	0.20	58753	96.17
575	401	0.66	22193	36.33	**622**	451	0.74	45364	74.26	**669**	129	0.21	58882	96.39
576	430	0.70	22623	37.03	**623**	438	0.72	45802	74.97	**670**	102	0.17	58984	96.55
577	454	0.74	23077	37.78	**624**	447	0.73	46249	75.71	**671**	111	0.18	59095	96.73
578	483	0.79	23560	38.57	**625**	403	0.66	46652	76.37	**672**	112	0.18	59207	96.92
579	451	0.74	24011	39.30	**626**	429	0.70	47081	77.07	**673**	98	0.16	59305	97.08
580	467	0.76	24478	40.07	**627**	419	0.69	47500	77.75	**674**	102	0.17	59407	97.25
581	464	0.76	24942	40.83	**628**	446	0.73	47946	78.48	**675**	90	0.15	59497	97.39
582	420	0.69	25362	41.52	**629**	386	0.63	48332	79.12	**676**	90	0.15	59587	97.54
583	444	0.73	25806	42.24	**630**	431	0.71	48763	79.82	**677**	84	0.14	59671	97.68
584	480	0.79	26286	43.03	**631**	416	0.68	49179	80.50	**678**	77	0.13	59748	97.80
585	476	0.78	26762	43.81	**632**	402	0.66	49581	81.16	**679**	84	0.14	59832	97.94
586	451	0.74	27213	44.55	**633**	411	0.67	49992	81.83	**680**	80	0.13	59912	98.07
587	498	0.82	27711	45.36	**634**	398	0.65	50390	82.48	**681**	79	0.13	59991	98.20
588	501	0.82	28212	46.18	**635**	352	0.58	50742	83.06	**682**	68	0.11	60059	98.31
589	521	0.85	28733	47.03	**636**	371	0.61	51113	83.67	**683**	68	0.11	60127	98.42
590	484	0.79	29217	47.83	**637**	343	0.56	51456	84.23	**684**	57	0.09	60184	98.52
591	499	0.82	29716	48.64	**638**	378	0.62	51834	84.85	**685**	55	0.09	60239	98.61
592	507	0.83	30223	49.47	**639**	362	0.59	52196	85.44	**686**	47	0.08	60286	98.68
593	487	0.80	30710	50.27	**640**	338	0.55	52534	85.99	**687**	41	0.07	60327	98.75
594	510	0.83	31220	51.10	**641**	309	0.51	52843	86.50	**688**	38	0.06	60365	98.81
595	510	0.83	31730	51.94	**642**	316	0.52	53159	87.02	**689**	50	0.08	60415	98.90
596	523	0.86	32253	52.80	**643**	341	0.56	53500	87.58	**690**	37	0.06	60452	98.96
597	484	0.79	32737	53.59	**644**	305	0.50	53805	88.07	**691**	41	0.07	60493	99.02
598	520	0.85	33257	54.44	**645**	292	0.48	54097	88.55	**692**	31	0.05	60524	99.07
599	522	0.85	33779	55.29	**646**	278	0.46	54375	89.01	**693**	31	0.05	60555	99.12
600	547	0.90	34326	56.19	**647**	290	0.47	54665	89.48	**694**	38	0.06	60593	99.19
601	546	0.89	34872	57.08	**648**	249	0.41	54914	89.89	**695**	35	0.06	60628	99.24
602	515	0.84	35387	57.93	**649**	249	0.41	55163	90.30	**696**	40	0.07	60668	99.31
603	502	0.82	35889	58.75	**650**	276	0.45	55439	90.75	**697**	17	0.03	60685	99.34
604	519	0.85	36408	59.60	**651**	255	0.42	55694	91.17	**698**	16	0.03	60701	99.36
605	531	0.87	36939	60.47	**652**	203	0.33	55897	91.50	**699**	18	0.03	60719	99.39
606	527	0.86	37466	61.33	**653**	202	0.33	56099	91.83	**700**	27	0.04	60746	99.44
607	500	0.82	37966	62.15	**654**	222	0.36	56321	92.19	**701**	14	0.02	60760	99.46
608	535	0.88	38501	63.02	**655**	204	0.33	56525	92.53	**702**	29	0.05	60789	99.51
609	512	0.84	39013	63.86	**656**	197	0.32	56722	92.85	**703**	24	0.04	60813	99.55
610	515	0.84	39528	64.70	**657**	176	0.29	56898	93.14	**704**	20	0.03	60833	99.58
611	552	0.90	40080	65.61	**658**	236	0.39	57134	93.52	**705**	14	0.02	60847	99.60
612	536	0.88	40616	66.49	**659**	174	0.28	57308	93.81	**706**	27	0.04	60874	99.65
613	519	0.85	41135	67.34	**660**	183	0.30	57491	94.11	**707**	16	0.03	60890	99.67
614	524	0.86	41659	68.19	**661**	199	0.33	57690	94.43	**708**	14	0.02	60904	99.70
615	505	0.83	42164	69.02	**662**	163	0.27	57853	94.70	**709**	13	0.02	60917	99.72

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Table 164. Reading Grade 4 Scale Score Distribution (continued)

SS	Freq.	%	Cum. Freq.	Cum. %
710	7	0.01	60924	99.73
711	15	0.02	60939	99.75
712	11	0.02	60950	99.77
713	7	0.01	60957	99.78
714	7	0.01	60964	99.79
715	11	0.02	60975	99.81
716	11	0.02	60986	99.83
717	8	0.01	60994	99.84
718	11	0.02	61005	99.86
719	4	0.01	61009	99.87
720	6	0.01	61015	99.88
721	4	0.01	61019	99.88
722	7	0.01	61026	99.90
723	5	0.01	61031	99.90
724	6	0.01	61037	99.91
725	5	0.01	61042	99.92
726	4	0.01	61046	99.93
727	2	0.00	61048	99.93
728	4	0.01	61052	99.94
729	2	0.00	61054	99.94
730	2	0.00	61056	99.94
731	3	0.00	61059	99.95
732	4	0.01	61063	99.96
733	2	0.00	61065	99.96
734	1	0.00	61066	99.96
735	2	0.00	61068	99.96
736	2	0.00	61070	99.97
737	2	0.00	61072	99.97
739	3	0.00	61075	99.98
741	1	0.00	61076	99.98
742	1	0.00	61077	99.98
744	1	0.00	61078	99.98
746	1	0.00	61079	99.98
747	2	0.00	61081	99.99
748	1	0.00	61082	99.99
749	1	0.00	61083	99.99
750	1	0.00	61084	99.99
755	1	0.00	61085	99.99
756	1	0.00	61086	99.99
758	1	0.00	61087	100
761	1	0.00	61088	100
762	1	0.00	61089	100
778	1	0.00	61090	100

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Table 165. Spanish Reading Grade 4 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
369	1	0.88	1	0.88	**553**	6	5.31	82	72.57					
405	1	0.88	2	1.77	**556**	1	0.88	83	73.45					
432	1	0.88	3	2.65	**557**	1	0.88	84	74.34					
458	1	0.88	4	3.54	**559**	2	1.77	86	76.11					
460	1	0.88	5	4.42	**560**	1	0.88	87	76.99					
463	1	0.88	6	5.31	**561**	1	0.88	88	77.88					
466	1	0.88	7	6.19	**562**	1	0.88	89	78.76					
468	2	1.77	9	7.96	**563**	1	0.88	90	79.65					
472	1	0.88	10	8.85	**565**	1	0.88	91	80.53					
476	2	1.77	12	10.62	**566**	1	0.88	92	81.42					
477	2	1.77	14	12.39	**567**	1	0.88	93	82.30					
490	1	0.88	15	13.27	**568**	1	0.88	94	83.19					
491	1	0.88	16	14.16	**569**	2	1.77	96	84.96					
492	1	0.88	17	15.04	**570**	1	0.88	97	85.84					
493	1	0.88	18	15.93	**571**	1	0.88	98	86.73					
494	1	0.88	19	16.81	**573**	1	0.88	99	87.61					
495	1	0.88	20	17.70	**574**	2	1.77	101	89.38					
497	2	1.77	22	19.47	**578**	2	1.77	103	91.15					
500	1	0.88	23	20.35	**580**	2	1.77	105	92.92					
509	2	1.77	25	22.12	**582**	1	0.88	106	93.81					
510	1	0.88	26	23.01	**584**	1	0.88	107	94.69					
514	1	0.88	27	23.89	**585**	1	0.88	108	95.58					
515	1	0.88	28	24.78	**589**	1	0.88	109	96.46					
516	2	1.77	30	26.55	**595**	1	0.88	110	97.35					
517	1	0.88	31	27.43	**605**	1	0.88	111	98.23					
518	4	3.54	35	30.97	**612**	1	0.88	112	99.12					
521	2	1.77	37	32.74	**635**	1	0.88	113	100					
522	1	0.88	38	33.63										
523	4	3.54	42	37.17										
525	2	1.77	44	38.94										
526	2	1.77	46	40.71										
527	2	1.77	48	42.48										
530	2	1.77	50	44.25										
532	2	1.77	52	46.02										
533	1	0.88	53	46.90										
535	1	0.88	54	47.79										
537	2	1.77	56	49.56										
538	2	1.77	58	51.33										
540	2	1.77	60	53.10										
542	4	3.54	64	56.64										
546	3	2.65	67	59.29										
547	2	1.77	69	61.06										
548	1	0.88	70	61.95										
549	3	2.65	73	64.60										
550	1	0.88	74	65.49										
551	1	0.88	75	66.37										
552	1	0.88	76	67.26										

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Table 166. Writing Grade 4 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
190	5	0.01	5	0.01	**313**	2	0.00	84	0.14	**360**	30	0.05	604	0.99
193	1	0.00	6	0.01	**314**	2	0.00	86	0.14	**361**	29	0.05	633	1.04
199	1	0.00	7	0.01	**315**	2	0.00	88	0.14	**362**	27	0.04	660	1.08
200	1	0.00	8	0.01	**316**	4	0.01	92	0.15	**363**	31	0.05	691	1.13
208	1	0.00	9	0.01	**317**	2	0.00	94	0.15	**364**	21	0.03	712	1.17
209	1	0.00	10	0.02	**318**	6	0.01	100	0.16	**365**	36	0.06	748	1.22
227	1	0.00	11	0.02	**319**	4	0.01	104	0.17	**366**	34	0.06	782	1.28
236	1	0.00	12	0.02	**320**	5	0.01	109	0.18	**367**	34	0.06	816	1.34
241	1	0.00	13	0.02	**321**	3	0.00	112	0.18	**368**	28	0.05	844	1.38
242	1	0.00	14	0.02	**322**	5	0.01	117	0.19	**369**	44	0.07	888	1.45
243	1	0.00	15	0.02	**323**	4	0.01	121	0.20	**370**	37	0.06	925	1.51
249	1	0.00	16	0.03	**324**	3	0.00	124	0.20	**371**	42	0.07	967	1.58
252	1	0.00	17	0.03	**325**	1	0.00	125	0.20	**372**	49	0.08	1016	1.66
253	1	0.00	18	0.03	**326**	7	0.01	132	0.22	**373**	54	0.09	1070	1.75
254	1	0.00	19	0.03	**327**	6	0.01	138	0.23	**374**	41	0.07	1111	1.82
259	1	0.00	20	0.03	**328**	4	0.01	142	0.23	**375**	53	0.09	1164	1.91
263	1	0.00	21	0.03	**329**	12	0.02	154	0.25	**376**	56	0.09	1220	2.00
264	2	0.00	23	0.04	**330**	6	0.01	160	0.26	**377**	41	0.07	1261	2.06
270	2	0.00	25	0.04	**331**	5	0.01	165	0.27	**378**	70	0.11	1331	2.18
272	1	0.00	26	0.04	**332**	4	0.01	169	0.28	**379**	59	0.10	1390	2.27
275	1	0.00	27	0.04	**333**	6	0.01	175	0.29	**380**	55	0.09	1445	2.37
278	1	0.00	28	0.05	**334**	5	0.01	180	0.29	**381**	45	0.07	1490	2.44
280	2	0.00	30	0.05	**335**	10	0.02	190	0.31	**382**	46	0.08	1536	2.51
282	2	0.00	32	0.05	**336**	7	0.01	197	0.32	**383**	59	0.10	1595	2.61
283	1	0.00	33	0.05	**337**	8	0.01	205	0.34	**384**	53	0.09	1648	2.70
285	2	0.00	35	0.06	**338**	11	0.02	216	0.35	**385**	68	0.11	1716	2.81
286	3	0.00	38	0.06	**339**	11	0.02	227	0.37	**386**	49	0.08	1765	2.89
287	1	0.00	39	0.06	**340**	15	0.02	242	0.40	**387**	62	0.10	1827	2.99
288	3	0.00	42	0.07	**341**	8	0.01	250	0.41	**388**	87	0.14	1914	3.13
289	2	0.00	44	0.07	**342**	13	0.02	263	0.43	**389**	85	0.14	1999	3.27
291	1	0.00	45	0.07	**343**	15	0.02	278	0.45	**390**	77	0.13	2076	3.40
292	1	0.00	46	0.08	**344**	12	0.02	290	0.47	**391**	90	0.15	2166	3.55
293	2	0.00	48	0.08	**345**	10	0.02	300	0.49	**392**	92	0.15	2258	3.70
294	2	0.00	50	0.08	**346**	14	0.02	314	0.51	**393**	89	0.15	2347	3.84
298	2	0.00	52	0.09	**347**	13	0.02	327	0.54	**394**	94	0.15	2441	4.00
299	2	0.00	54	0.09	**348**	17	0.03	344	0.56	**395**	85	0.14	2526	4.13
300	4	0.01	58	0.09	**349**	20	0.03	364	0.60	**396**	112	0.18	2638	4.32
301	1	0.00	59	0.10	**350**	25	0.04	389	0.64	**397**	111	0.18	2749	4.50
302	2	0.00	61	0.10	**351**	18	0.03	407	0.67	**398**	115	0.19	2864	4.69
303	1	0.00	62	0.10	**352**	12	0.02	419	0.69	**399**	72	0.12	2936	4.81
304	3	0.00	65	0.11	**353**	17	0.03	436	0.71	**400**	110	0.18	3046	4.99
307	2	0.00	67	0.11	**354**	18	0.03	454	0.74	**401**	103	0.17	3149	5.15
308	3	0.00	70	0.11	**355**	24	0.04	478	0.78	**402**	107	0.18	3256	5.33
309	4	0.01	74	0.12	**356**	23	0.04	501	0.82	**403**	120	0.20	3376	5.53
310	1	0.00	75	0.12	**357**	25	0.04	526	0.86	**404**	112	0.18	3488	5.71
311	4	0.01	79	0.13	**358**	23	0.04	549	0.90	**405**	106	0.17	3594	5.88
312	3	0.00	82	0.13	**359**	25	0.04	574	0.94	**406**	122	0.20	3716	6.08

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Table 166. Writing Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
407	132	0.22	3848	6.30	**454**	409	0.67	16172	26.47	**501**	457	0.75	38413	62.87
408	143	0.23	3991	6.53	**455**	450	0.74	16622	27.21	**502**	493	0.81	38906	63.68
409	157	0.26	4148	6.79	**456**	396	0.65	17018	27.85	**503**	494	0.81	39400	64.49
410	167	0.27	4315	7.06	**457**	419	0.69	17437	28.54	**504**	462	0.76	39862	65.24
411	170	0.28	4485	7.34	**458**	402	0.66	17839	29.20	**505**	436	0.71	40298	65.96
412	152	0.25	4637	7.59	**459**	380	0.62	18219	29.82	**506**	436	0.71	40734	66.67
413	168	0.27	4805	7.86	**460**	428	0.70	18647	30.52	**507**	486	0.80	41220	67.46
414	154	0.25	4959	8.12	**461**	447	0.73	19094	31.25	**508**	459	0.75	41679	68.22
415	158	0.26	5117	8.37	**462**	455	0.74	19549	32.00	**509**	426	0.70	42105	68.91
416	174	0.28	5291	8.66	**463**	437	0.72	19986	32.71	**510**	433	0.71	42538	69.62
417	192	0.31	5483	8.97	**464**	472	0.77	20458	33.48	**511**	409	0.67	42947	70.29
418	191	0.31	5674	9.29	**465**	407	0.67	20865	34.15	**512**	441	0.72	43388	71.01
419	165	0.27	5839	9.56	**466**	452	0.74	21317	34.89	**513**	432	0.71	43820	71.72
420	184	0.30	6023	9.86	**467**	420	0.69	21737	35.58	**514**	404	0.66	44224	72.38
421	229	0.37	6252	10.23	**468**	470	0.77	22207	36.35	**515**	430	0.70	44654	73.08
422	210	0.34	6462	10.58	**469**	521	0.85	22728	37.20	**516**	418	0.68	45072	73.77
423	214	0.35	6676	10.93	**470**	445	0.73	23173	37.93	**517**	407	0.67	45479	74.43
424	209	0.34	6885	11.27	**471**	450	0.74	23623	38.66	**518**	392	0.64	45871	75.08
425	233	0.38	7118	11.65	**472**	506	0.83	24129	39.49	**519**	383	0.63	46254	75.70
426	252	0.41	7370	12.06	**473**	475	0.78	24604	40.27	**520**	402	0.66	46656	76.36
427	222	0.36	7592	12.43	**474**	491	0.80	25095	41.07	**521**	397	0.65	47053	77.01
428	216	0.35	7808	12.78	**475**	474	0.78	25569	41.85	**522**	349	0.57	47402	77.58
429	270	0.44	8078	13.22	**476**	483	0.79	26052	42.64	**523**	353	0.58	47755	78.16
430	245	0.40	8323	13.62	**477**	484	0.79	26536	43.43	**524**	375	0.61	48130	78.77
431	278	0.45	8601	14.08	**478**	473	0.77	27009	44.21	**525**	355	0.58	48485	79.35
432	275	0.45	8876	14.53	**479**	518	0.85	27527	45.05	**526**	342	0.56	48827	79.91
433	246	0.40	9122	14.93	**480**	508	0.83	28035	45.88	**527**	350	0.57	49177	80.49
434	286	0.47	9408	15.40	**481**	504	0.82	28539	46.71	**528**	347	0.57	49524	81.06
435	272	0.45	9680	15.84	**482**	510	0.83	29049	47.54	**529**	319	0.52	49843	81.58
436	280	0.46	9960	16.30	**483**	505	0.83	29554	48.37	**530**	313	0.51	50156	82.09
437	297	0.49	10257	16.79	**484**	518	0.85	30072	49.22	**531**	298	0.49	50454	82.58
438	288	0.47	10545	17.26	**485**	516	0.84	30588	50.06	**532**	320	0.52	50774	83.10
439	293	0.48	10838	17.74	**486**	489	0.80	31077	50.86	**533**	292	0.48	51066	83.58
440	309	0.51	11147	18.24	**487**	493	0.81	31570	51.67	**534**	293	0.48	51359	84.06
441	272	0.45	11419	18.69	**488**	513	0.84	32083	52.51	**535**	279	0.46	51638	84.52
442	323	0.53	11742	19.22	**489**	479	0.78	32562	53.29	**536**	278	0.45	51916	84.97
443	339	0.55	12081	19.77	**490**	480	0.79	33042	54.08	**537**	284	0.46	52200	85.44
444	325	0.53	12406	20.30	**491**	462	0.76	33504	54.84	**538**	305	0.50	52505	85.93
445	330	0.54	12736	20.84	**492**	501	0.82	34005	55.66	**539**	278	0.45	52783	86.39
446	367	0.60	13103	21.45	**493**	504	0.82	34509	56.48	**540**	260	0.43	53043	86.81
447	345	0.56	13448	22.01	**494**	514	0.84	35023	57.32	**541**	222	0.36	53265	87.18
448	382	0.63	13830	22.64	**495**	498	0.82	35521	58.14	**542**	212	0.35	53477	87.53
449	409	0.67	14239	23.30	**496**	467	0.76	35988	58.90	**543**	226	0.37	53703	87.90
450	359	0.59	14598	23.89	**497**	474	0.78	36462	59.68	**544**	258	0.42	53961	88.32
451	382	0.63	14980	24.52	**498**	509	0.83	36971	60.51	**545**	241	0.39	54202	88.71
452	384	0.63	15364	25.15	**499**	493	0.81	37464	61.32	**546**	222	0.36	54424	89.08
453	399	0.65	15763	25.80	**500**	492	0.81	37956	62.12	**547**	239	0.39	54663	89.47

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Table 166. Writing Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
548	215	0.35	54878	89.82	**595**	45	0.07	59906	98.05	**642**	3	0.00	60879	99.64
549	211	0.35	55089	90.16	**596**	55	0.09	59961	98.14	**644**	4	0.01	60883	99.65
550	200	0.33	55289	90.49	**597**	29	0.05	59990	98.18	**645**	5	0.01	60888	99.65
551	177	0.29	55466	90.78	**598**	48	0.08	60038	98.26	**646**	3	0.00	60891	99.66
552	176	0.29	55642	91.07	**599**	41	0.07	60079	98.33	**647**	5	0.01	60896	99.67
553	180	0.29	55822	91.36	**600**	43	0.07	60122	98.40	**648**	8	0.01	60904	99.68
554	176	0.29	55998	91.65	**601**	31	0.05	60153	98.45	**651**	2	0.00	60906	99.68
555	164	0.27	56162	91.92	**602**	22	0.04	60175	98.49	**652**	2	0.00	60908	99.69
556	158	0.26	56320	92.18	**603**	29	0.05	60204	98.54	**653**	2	0.00	60910	99.69
557	159	0.26	56479	92.44	**604**	25	0.04	60229	98.58	**654**	11	0.02	60921	99.71
558	141	0.23	56620	92.67	**605**	33	0.05	60262	98.63	**655**	24	0.04	60945	99.75
559	161	0.26	56781	92.93	**606**	26	0.04	60288	98.67	**656**	9	0.01	60954	99.76
560	146	0.24	56927	93.17	**607**	23	0.04	60311	98.71	**657**	16	0.03	60970	99.79
561	149	0.24	57076	93.42	**608**	14	0.02	60325	98.73	**658**	3	0.00	60973	99.79
562	113	0.18	57189	93.60	**609**	20	0.03	60345	98.77	**660**	8	0.01	60981	99.81
563	146	0.24	57335	93.84	**610**	23	0.04	60368	98.80	**661**	6	0.01	60987	99.82
564	133	0.22	57468	94.06	**611**	24	0.04	60392	98.84	**662**	23	0.04	61010	99.85
565	101	0.17	57569	94.22	**612**	19	0.03	60411	98.87	**665**	1	0.00	61011	99.86
566	114	0.19	57683	94.41	**613**	18	0.03	60429	98.90	**667**	2	0.00	61013	99.86
567	143	0.23	57826	94.64	**614**	56	0.09	60485	99.00	**671**	1	0.00	61014	99.86
568	132	0.22	57958	94.86	**615**	9	0.01	60494	99.01	**672**	1	0.00	61015	99.86
569	87	0.14	58045	95.00	**616**	25	0.04	60519	99.05	**673**	1	0.00	61016	99.86
570	93	0.15	58138	95.15	**617**	14	0.02	60533	99.07	**683**	1	0.00	61017	99.87
571	94	0.15	58232	95.31	**618**	19	0.03	60552	99.10	**684**	3	0.00	61020	99.87
572	105	0.17	58337	95.48	**619**	13	0.02	60565	99.13	**687**	1	0.00	61021	99.87
573	86	0.14	58423	95.62	**620**	15	0.02	60580	99.15	**697**	16	0.03	61037	99.90
574	107	0.18	58530	95.80	**621**	9	0.01	60589	99.17	**698**	17	0.03	61054	99.93
575	88	0.14	58618	95.94	**622**	17	0.03	60606	99.19	**701**	5	0.01	61059	99.93
576	101	0.17	58719	96.10	**623**	9	0.01	60615	99.21	**702**	13	0.02	61072	99.96
577	74	0.12	58793	96.23	**624**	11	0.02	60626	99.23	**712**	11	0.02	61083	99.97
578	76	0.12	58869	96.35	**625**	13	0.02	60639	99.25	**730**	16	0.03	61099	100
579	83	0.14	58952	96.49	**626**	7	0.01	60646	99.26					
580	66	0.11	59018	96.59	**627**	5	0.01	60651	99.27					
581	62	0.10	59080	96.70	**628**	10	0.02	60661	99.28					
582	70	0.11	59150	96.81	**629**	22	0.04	60683	99.32					
583	63	0.10	59213	96.91	**630**	17	0.03	60700	99.35					
584	53	0.09	59266	97.00	**631**	13	0.02	60713	99.37					
585	95	0.16	59361	97.16	**632**	65	0.11	60778	99.47					
586	76	0.12	59437	97.28	**633**	10	0.02	60788	99.49					
587	73	0.12	59510	97.40	**634**	22	0.04	60810	99.53					
588	63	0.10	59573	97.50	**635**	20	0.03	60830	99.56					
589	50	0.08	59623	97.58	**636**	4	0.01	60834	99.57					
590	46	0.08	59669	97.66	**637**	8	0.01	60842	99.58					
591	50	0.08	59719	97.74	**638**	9	0.01	60851	99.59					
592	63	0.10	59782	97.84	**639**	2	0.00	60853	99.60					
593	37	0.06	59819	97.91	**640**	14	0.02	60867	99.62					
594	42	0.07	59861	97.97	**641**	9	0.01	60876	99.64					

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Table 167. Spanish Writing Grade 4 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
351	1	0.88	1	0.88	**525**	5	4.42	71	62.83					
408	1	0.88	2	1.77	**526**	2	1.77	73	64.60					
415	1	0.88	3	2.65	**527**	2	1.77	75	66.37					
430	1	0.88	4	3.54	**529**	2	1.77	77	68.14					
436	1	0.88	5	4.42	**531**	2	1.77	79	69.91					
447	1	0.88	6	5.31	**536**	1	0.88	80	70.80					
462	1	0.88	7	6.19	**537**	1	0.88	81	71.68					
466	1	0.88	8	7.08	**538**	1	0.88	82	72.57					
467	2	1.77	10	8.85	**540**	2	1.77	84	74.34					
470	1	0.88	11	9.73	**542**	1	0.88	85	75.22					
471	1	0.88	12	10.62	**544**	3	2.65	88	77.88					
473	1	0.88	13	11.50	**545**	2	1.77	90	79.65					
474	1	0.88	14	12.39	**546**	1	0.88	91	80.53					
475	1	0.88	15	13.27	**547**	3	2.65	94	83.19					
476	1	0.88	16	14.16	**548**	2	1.77	96	84.96					
482	2	1.77	18	15.93	**549**	1	0.88	97	85.84					
483	1	0.88	19	16.81	**551**	2	1.77	99	87.61					
484	1	0.88	20	17.70	**552**	1	0.88	100	88.50					
486	1	0.88	21	18.58	**553**	1	0.88	101	89.38					
489	1	0.88	22	19.47	**556**	1	0.88	102	90.27					
492	1	0.88	23	20.35	**557**	1	0.88	103	91.15					
493	2	1.77	25	22.12	**558**	1	0.88	104	92.04					
494	1	0.88	26	23.01	**559**	2	1.77	106	93.81					
495	2	1.77	28	24.78	**563**	2	1.77	108	95.58					
497	1	0.88	29	25.66	**569**	1	0.88	109	96.46					
498	1	0.88	30	26.55	**570**	1	0.88	110	97.35					
499	2	1.77	32	28.32	**585**	1	0.88	111	98.23					
500	2	1.77	34	30.09	**593**	1	0.88	112	99.12					
501	2	1.77	36	31.86	**611**	1	0.88	113	100					
505	2	1.77	38	33.63										
506	3	2.65	41	36.28										
508	1	0.88	42	37.17										
509	1	0.88	43	38.05										
510	1	0.88	44	38.94										
511	3	2.65	47	41.59										
512	1	0.88	48	42.48										
513	2	1.77	50	44.25										
514	1	0.88	51	45.13										
515	2	1.77	53	46.90										
516	2	1.77	55	48.67										
517	2	1.77	57	50.44										
518	2	1.77	59	52.21										
519	1	0.88	60	53.10										
521	1	0.88	61	53.98										
522	3	2.65	64	56.64										
523	1	0.88	65	57.52										
524	1	0.88	66	58.41										

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Table 168. Mathematics Grade 4 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
180	54	0.09	54	0.09	**233**	4	0.01	168	0.27	**280**	13	0.02	537	0.88
181	2	0.00	56	0.09	**234**	3	0.00	171	0.28	**281**	14	0.02	551	0.90
182	1	0.00	57	0.09	**235**	6	0.01	177	0.29	**282**	12	0.02	563	0.92
183	2	0.00	59	0.10	**236**	2	0.00	179	0.29	**283**	16	0.03	579	0.95
184	1	0.00	60	0.10	**237**	8	0.01	187	0.31	**284**	14	0.02	593	0.97
186	1	0.00	61	0.10	**238**	5	0.01	192	0.31	**285**	14	0.02	607	0.99
187	2	0.00	63	0.10	**239**	3	0.00	195	0.32	**286**	16	0.03	623	1.02
188	2	0.00	65	0.11	**240**	6	0.01	201	0.33	**287**	15	0.02	638	1.04
189	2	0.00	67	0.11	**241**	5	0.01	206	0.34	**288**	13	0.02	651	1.06
190	1	0.00	68	0.11	**242**	3	0.00	209	0.34	**289**	14	0.02	665	1.09
192	1	0.00	69	0.11	**243**	2	0.00	211	0.34	**290**	18	0.03	683	1.11
193	2	0.00	71	0.12	**244**	7	0.01	218	0.36	**291**	14	0.02	697	1.14
194	4	0.01	75	0.12	**245**	4	0.01	222	0.36	**292**	14	0.02	711	1.16
195	1	0.00	76	0.12	**246**	5	0.01	227	0.37	**293**	18	0.03	729	1.19
197	4	0.01	80	0.13	**247**	5	0.01	232	0.38	**294**	20	0.03	749	1.22
198	2	0.00	82	0.13	**248**	10	0.02	242	0.40	**295**	24	0.04	773	1.26
199	3	0.00	85	0.14	**249**	5	0.01	247	0.40	**296**	35	0.06	808	1.32
200	2	0.00	87	0.14	**250**	4	0.01	251	0.41	**297**	10	0.02	818	1.34
201	1	0.00	88	0.14	**251**	8	0.01	259	0.42	**298**	20	0.03	838	1.37
202	1	0.00	89	0.15	**252**	2	0.00	261	0.43	**299**	16	0.03	854	1.39
203	1	0.00	90	0.15	**253**	10	0.02	271	0.44	**300**	18	0.03	872	1.42
204	3	0.00	93	0.15	**254**	3	0.00	274	0.45	**301**	20	0.03	892	1.46
205	2	0.00	95	0.16	**255**	7	0.01	281	0.46	**302**	26	0.04	918	1.50
206	2	0.00	97	0.16	**256**	4	0.01	285	0.47	**303**	19	0.03	937	1.53
207	1	0.00	98	0.16	**257**	5	0.01	290	0.47	**304**	16	0.03	953	1.56
208	2	0.00	100	0.16	**258**	12	0.02	302	0.49	**305**	19	0.03	972	1.59
210	4	0.01	104	0.17	**259**	11	0.02	313	0.51	**306**	30	0.05	1002	1.64
211	2	0.00	106	0.17	**260**	11	0.02	324	0.53	**307**	24	0.04	1026	1.67
212	2	0.00	108	0.18	**261**	6	0.01	330	0.54	**308**	26	0.04	1052	1.72
213	1	0.00	109	0.18	**262**	11	0.02	341	0.56	**309**	22	0.04	1074	1.75
214	4	0.01	113	0.18	**263**	4	0.01	345	0.56	**310**	25	0.04	1099	1.79
215	2	0.00	115	0.19	**264**	6	0.01	351	0.57	**311**	21	0.03	1120	1.83
217	1	0.00	116	0.19	**265**	8	0.01	359	0.59	**312**	21	0.03	1141	1.86
218	2	0.00	118	0.19	**266**	10	0.02	369	0.60	**313**	22	0.04	1163	1.90
219	4	0.01	122	0.20	**267**	14	0.02	383	0.63	**314**	28	0.05	1191	1.94
220	5	0.01	127	0.21	**268**	9	0.01	392	0.64	**315**	27	0.04	1218	1.99
221	3	0.00	130	0.21	**269**	9	0.01	401	0.65	**316**	35	0.06	1253	2.05
222	4	0.01	134	0.22	**270**	8	0.01	409	0.67	**317**	32	0.05	1285	2.10
223	4	0.01	138	0.23	**271**	12	0.02	421	0.69	**318**	26	0.04	1311	2.14
224	3	0.00	141	0.23	**272**	9	0.01	430	0.70	**319**	32	0.05	1343	2.19
225	4	0.01	145	0.24	**273**	11	0.02	441	0.72	**320**	25	0.04	1368	2.23
226	2	0.00	147	0.24	**274**	14	0.02	455	0.74	**321**	33	0.05	1401	2.29
227	4	0.01	151	0.25	**275**	11	0.02	466	0.76	**322**	21	0.03	1422	2.32
228	1	0.00	152	0.25	**276**	14	0.02	480	0.78	**323**	30	0.05	1452	2.37
229	7	0.01	159	0.26	**277**	12	0.02	492	0.80	**324**	42	0.07	1494	2.44
230	4	0.01	163	0.27	**278**	16	0.03	508	0.83	**325**	29	0.05	1523	2.49
232	1	0.00	164	0.27	**279**	16	0.03	524	0.86	**326**	36	0.06	1559	2.54

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Table 168. Mathematics Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
327	41	0.07	1600	2.61	**374**	79	0.13	4368	7.13	**421**	173	0.28	10635	17.36
328	33	0.05	1633	2.67	**375**	95	0.16	4463	7.29	**422**	183	0.30	10818	17.66
329	39	0.06	1672	2.73	**376**	88	0.14	4551	7.43	**423**	195	0.32	11013	17.98
330	26	0.04	1698	2.77	**377**	82	0.13	4633	7.56	**424**	179	0.29	11192	18.27
331	36	0.06	1734	2.83	**378**	103	0.17	4736	7.73	**425**	196	0.32	11388	18.59
332	54	0.09	1788	2.92	**379**	106	0.17	4842	7.90	**426**	198	0.32	11586	18.91
333	33	0.05	1821	2.97	**380**	93	0.15	4935	8.06	**427**	180	0.29	11766	19.21
334	44	0.07	1865	3.04	**381**	104	0.17	5039	8.23	**428**	189	0.31	11955	19.52
335	43	0.07	1908	3.11	**382**	106	0.17	5145	8.40	**429**	196	0.32	12151	19.84
336	43	0.07	1951	3.18	**383**	98	0.16	5243	8.56	**430**	214	0.35	12365	20.18
337	42	0.07	1993	3.25	**384**	95	0.16	5338	8.71	**431**	194	0.32	12559	20.50
338	50	0.08	2043	3.34	**385**	114	0.19	5452	8.90	**432**	216	0.35	12775	20.85
339	37	0.06	2080	3.40	**386**	93	0.15	5545	9.05	**433**	179	0.29	12954	21.15
340	36	0.06	2116	3.45	**387**	99	0.16	5644	9.21	**434**	222	0.36	13176	21.51
341	48	0.08	2164	3.53	**388**	119	0.19	5763	9.41	**435**	223	0.36	13399	21.87
342	47	0.08	2211	3.61	**389**	111	0.18	5874	9.59	**436**	196	0.32	13595	22.19
343	45	0.07	2256	3.68	**390**	103	0.17	5977	9.76	**437**	218	0.36	13813	22.55
344	55	0.09	2311	3.77	**391**	140	0.23	6117	9.99	**438**	242	0.40	14055	22.94
345	55	0.09	2366	3.86	**392**	120	0.20	6237	10.18	**439**	240	0.39	14295	23.34
346	55	0.09	2421	3.95	**393**	118	0.19	6355	10.37	**440**	209	0.34	14504	23.68
347	63	0.10	2484	4.05	**394**	128	0.21	6483	10.58	**441**	220	0.36	14724	24.04
348	47	0.08	2531	4.13	**395**	133	0.22	6616	10.80	**442**	242	0.40	14966	24.43
349	35	0.06	2566	4.19	**396**	122	0.20	6738	11.00	**443**	240	0.39	15206	24.82
350	62	0.10	2628	4.29	**397**	133	0.22	6871	11.22	**444**	245	0.40	15451	25.22
351	59	0.10	2687	4.39	**398**	131	0.21	7002	11.43	**445**	250	0.41	15701	25.63
352	65	0.11	2752	4.49	**399**	165	0.27	7167	11.70	**446**	252	0.41	15953	26.04
353	63	0.10	2815	4.60	**400**	142	0.23	7309	11.93	**447**	241	0.39	16194	26.44
354	70	0.11	2885	4.71	**401**	173	0.28	7482	12.21	**448**	223	0.36	16417	26.80
355	53	0.09	2938	4.80	**402**	123	0.20	7605	12.41	**449**	235	0.38	16652	27.18
356	57	0.09	2995	4.89	**403**	141	0.23	7746	12.64	**450**	256	0.42	16908	27.60
357	52	0.08	3047	4.97	**404**	127	0.21	7873	12.85	**451**	292	0.48	17200	28.08
358	48	0.08	3095	5.05	**405**	139	0.23	8012	13.08	**452**	233	0.38	17433	28.46
359	60	0.10	3155	5.15	**406**	151	0.25	8163	13.33	**453**	264	0.43	17697	28.89
360	51	0.08	3206	5.23	**407**	136	0.22	8299	13.55	**454**	269	0.44	17966	29.33
361	82	0.13	3288	5.37	**408**	164	0.27	8463	13.82	**455**	274	0.45	18240	29.78
362	81	0.13	3369	5.50	**409**	150	0.24	8613	14.06	**456**	246	0.40	18486	30.18
363	75	0.12	3444	5.62	**410**	184	0.30	8797	14.36	**457**	248	0.40	18734	30.58
364	85	0.14	3529	5.76	**411**	143	0.23	8940	14.59	**458**	278	0.45	19012	31.04
365	79	0.13	3608	5.89	**412**	163	0.27	9103	14.86	**459**	298	0.49	19310	31.52
366	84	0.14	3692	6.03	**413**	138	0.23	9241	15.09	**460**	297	0.48	19607	32.01
367	85	0.14	3777	6.17	**414**	169	0.28	9410	15.36	**461**	264	0.43	19871	32.44
368	68	0.11	3845	6.28	**415**	177	0.29	9587	15.65	**462**	257	0.42	20128	32.86
369	77	0.13	3922	6.40	**416**	180	0.29	9767	15.94	**463**	279	0.46	20407	33.31
370	96	0.16	4018	6.56	**417**	175	0.29	9942	16.23	**464**	290	0.47	20697	33.79
371	78	0.13	4096	6.69	**418**	169	0.28	10111	16.51	**465**	253	0.41	20950	34.20
372	98	0.16	4194	6.85	**419**	175	0.29	10286	16.79	**466**	246	0.40	21196	34.60
373	95	0.16	4289	7.00	**420**	176	0.29	10462	17.08	**467**	286	0.47	21482	35.07

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Table 168. Mathematics Grade 4 Scale Score Distribution (continued))

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
468	292	0.48	21774	35.54	**515**	322	0.53	36632	59.80	**562**	216	0.35	50155	81.87
469	280	0.46	22054	36.00	**516**	357	0.58	36989	60.38	**563**	255	0.42	50410	82.29
470	305	0.50	22359	36.50	**517**	309	0.50	37298	60.89	**564**	221	0.36	50631	82.65
471	288	0.47	22647	36.97	**518**	329	0.54	37627	61.42	**565**	212	0.35	50843	83.00
472	258	0.42	22905	37.39	**519**	322	0.53	37949	61.95	**566**	239	0.39	51082	83.39
473	342	0.56	23247	37.95	**520**	348	0.57	38297	62.52	**567**	268	0.44	51350	83.82
474	318	0.52	23565	38.47	**521**	298	0.49	38595	63.00	**568**	197	0.32	51547	84.15
475	291	0.48	23856	38.94	**522**	320	0.52	38915	63.53	**569**	212	0.35	51759	84.49
476	269	0.44	24125	39.38	**523**	280	0.46	39195	63.98	**570**	230	0.38	51989	84.87
477	321	0.52	24446	39.91	**524**	319	0.52	39514	64.50	**571**	225	0.37	52214	85.23
478	303	0.49	24749	40.40	**525**	294	0.48	39808	64.98	**572**	206	0.34	52420	85.57
479	327	0.53	25076	40.93	**526**	301	0.49	40109	65.47	**573**	224	0.37	52644	85.94
480	305	0.50	25381	41.43	**527**	308	0.50	40417	65.98	**574**	203	0.33	52847	86.27
481	300	0.49	25681	41.92	**528**	328	0.54	40745	66.51	**575**	235	0.38	53082	86.65
482	336	0.55	26017	42.47	**529**	302	0.49	41047	67.01	**576**	198	0.32	53280	86.97
483	306	0.50	26323	42.97	**530**	326	0.53	41373	67.54	**577**	177	0.29	53457	87.26
484	314	0.51	26637	43.48	**531**	295	0.48	41668	68.02	**578**	191	0.31	53648	87.58
485	341	0.56	26978	44.04	**532**	274	0.45	41942	68.47	**579**	191	0.31	53839	87.89
486	317	0.52	27295	44.56	**533**	342	0.56	42284	69.02	**580**	186	0.30	54025	88.19
487	330	0.54	27625	45.10	**534**	288	0.47	42572	69.50	**581**	183	0.30	54208	88.49
488	315	0.51	27940	45.61	**535**	288	0.47	42860	69.97	**582**	163	0.27	54371	88.76
489	312	0.51	28252	46.12	**536**	318	0.52	43178	70.48	**583**	185	0.30	54556	89.06
490	301	0.49	28553	46.61	**537**	283	0.46	43461	70.95	**584**	183	0.30	54739	89.36
491	293	0.48	28846	47.09	**538**	309	0.50	43770	71.45	**585**	164	0.27	54903	89.62
492	326	0.53	29172	47.62	**539**	298	0.49	44068	71.94	**586**	144	0.24	55047	89.86
493	332	0.54	29504	48.16	**540**	276	0.45	44344	72.39	**587**	141	0.23	55188	90.09
494	313	0.51	29817	48.67	**541**	286	0.47	44630	72.85	**588**	165	0.27	55353	90.36
495	350	0.57	30167	49.25	**542**	306	0.50	44936	73.35	**589**	135	0.22	55488	90.58
496	310	0.51	30477	49.75	**543**	285	0.47	45221	73.82	**590**	154	0.25	55642	90.83
497	326	0.53	30803	50.28	**544**	285	0.47	45506	74.28	**591**	138	0.23	55780	91.06
498	333	0.54	31136	50.83	**545**	289	0.47	45795	74.76	**592**	145	0.24	55925	91.29
499	350	0.57	31486	51.40	**546**	274	0.45	46069	75.20	**593**	130	0.21	56055	91.50
500	342	0.56	31828	51.96	**547**	301	0.49	46370	75.69	**594**	121	0.20	56176	91.70
501	329	0.54	32157	52.49	**548**	283	0.46	46653	76.16	**595**	124	0.20	56300	91.90
502	323	0.53	32480	53.02	**549**	271	0.44	46924	76.60	**596**	145	0.24	56445	92.14
503	287	0.47	32767	53.49	**550**	267	0.44	47191	77.04	**597**	143	0.23	56588	92.37
504	323	0.53	33090	54.02	**551**	257	0.42	47448	77.45	**598**	130	0.21	56718	92.59
505	335	0.55	33425	54.56	**552**	247	0.40	47695	77.86	**599**	94	0.15	56812	92.74
506	321	0.52	33746	55.09	**553**	239	0.39	47934	78.25	**600**	124	0.20	56936	92.94
507	315	0.51	34061	55.60	**554**	253	0.41	48187	78.66	**601**	126	0.21	57062	93.15
508	344	0.56	34405	56.16	**555**	258	0.42	48445	79.08	**602**	116	0.19	57178	93.34
509	349	0.57	34754	56.73	**556**	250	0.41	48695	79.49	**603**	116	0.19	57294	93.53
510	318	0.52	35072	57.25	**557**	257	0.42	48952	79.91	**604**	108	0.18	57402	93.70
511	329	0.54	35401	57.79	**558**	258	0.42	49210	80.33	**605**	123	0.20	57525	93.90
512	283	0.46	35684	58.25	**559**	251	0.41	49461	80.74	**606**	106	0.17	57631	94.08
513	320	0.52	36004	58.77	**560**	250	0.41	49711	81.15	**607**	94	0.15	57725	94.23
514	306	0.50	36310	59.27	**561**	228	0.37	49939	81.52	**608**	93	0.15	57818	94.38

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Table 168. Mathematics Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
609	96	0.16	57914	94.54	**656**	28	0.05	60361	98.53	**703**	14	0.02	61008	99.59
610	83	0.14	57997	94.68	**657**	34	0.06	60395	98.59	**704**	6	0.01	61014	99.60
611	95	0.16	58092	94.83	**658**	28	0.05	60423	98.64	**705**	12	0.02	61026	99.62
612	91	0.15	58183	94.98	**659**	28	0.05	60451	98.68	**706**	1	0.00	61027	99.62
613	93	0.15	58276	95.13	**660**	28	0.05	60479	98.73	**707**	2	0.00	61029	99.62
614	84	0.14	58360	95.27	**661**	21	0.03	60500	98.76	**708**	2	0.00	61031	99.63
615	79	0.13	58439	95.40	**662**	21	0.03	60521	98.80	**709**	6	0.01	61037	99.64
616	76	0.12	58515	95.52	**663**	16	0.03	60537	98.82	**710**	11	0.02	61048	99.66
617	56	0.09	58571	95.61	**664**	20	0.03	60557	98.85	**711**	13	0.02	61061	99.68
618	77	0.13	58648	95.74	**665**	19	0.03	60576	98.89	**712**	16	0.03	61077	99.70
619	63	0.10	58711	95.84	**666**	12	0.02	60588	98.90	**713**	2	0.00	61079	99.71
620	70	0.11	58781	95.95	**667**	21	0.03	60609	98.94	**714**	3	0.00	61082	99.71
621	74	0.12	58855	96.08	**668**	25	0.04	60634	98.98	**715**	4	0.01	61086	99.72
622	55	0.09	58910	96.17	**669**	16	0.03	60650	99.01	**716**	3	0.00	61089	99.72
623	72	0.12	58982	96.28	**670**	11	0.02	60661	99.02	**717**	1	0.00	61090	99.72
624	66	0.11	59048	96.39	**671**	17	0.03	60678	99.05	**719**	5	0.01	61095	99.73
625	62	0.10	59110	96.49	**672**	13	0.02	60691	99.07	**724**	3	0.00	61098	99.74
626	61	0.10	59171	96.59	**673**	14	0.02	60705	99.10	**728**	4	0.01	61102	99.74
627	58	0.09	59229	96.69	**674**	22	0.04	60727	99.13	**729**	2	0.00	61104	99.75
628	63	0.10	59292	96.79	**675**	4	0.01	60731	99.14	**731**	2	0.00	61106	99.75
629	59	0.10	59351	96.89	**676**	12	0.02	60743	99.16	**741**	24	0.04	61130	99.79
630	61	0.10	59412	96.98	**677**	9	0.01	60752	99.17	**743**	2	0.00	61132	99.79
631	42	0.07	59454	97.05	**678**	24	0.04	60776	99.21	**745**	13	0.02	61145	99.81
632	61	0.10	59515	97.15	**679**	16	0.03	60792	99.24	**746**	18	0.03	61163	99.84
633	53	0.09	59568	97.24	**680**	18	0.03	60810	99.27	**748**	1	0.00	61164	99.84
634	49	0.08	59617	97.32	**681**	10	0.02	60820	99.28	**754**	4	0.01	61168	99.85
635	48	0.08	59665	97.40	**682**	9	0.01	60829	99.30	**756**	1	0.00	61169	99.85
636	38	0.06	59703	97.46	**683**	12	0.02	60841	99.32	**758**	3	0.00	61172	99.86
637	47	0.08	59750	97.54	**684**	11	0.02	60852	99.34	**759**	7	0.01	61179	99.87
638	43	0.07	59793	97.61	**685**	6	0.01	60858	99.35	**761**	16	0.03	61195	99.90
639	37	0.06	59830	97.67	**686**	9	0.01	60867	99.36	**763**	3	0.00	61198	99.90
640	40	0.07	59870	97.73	**687**	6	0.01	60873	99.37	**767**	1	0.00	61199	99.90
641	39	0.06	59909	97.80	**688**	8	0.01	60881	99.38	**770**	1	0.00	61200	99.90
642	33	0.05	59942	97.85	**689**	7	0.01	60888	99.39	**780**	59	0.10	61259	100
643	37	0.06	59979	97.91	**690**	4	0.01	60892	99.40					
644	30	0.05	60009	97.96	**691**	4	0.01	60896	99.41					
645	29	0.05	60038	98.01	**692**	5	0.01	60901	99.42					
646	32	0.05	60070	98.06	**693**	11	0.02	60912	99.43					
647	25	0.04	60095	98.10	**694**	6	0.01	60918	99.44					
648	32	0.05	60127	98.15	**695**	17	0.03	60935	99.47					
649	33	0.05	60160	98.21	**696**	5	0.01	60940	99.48					
650	34	0.06	60194	98.26	**697**	13	0.02	60953	99.50					
651	20	0.03	60214	98.29	**698**	1	0.00	60954	99.50					
652	34	0.06	60248	98.35	**699**	9	0.01	60963	99.52					
653	36	0.06	60284	98.41	**700**	4	0.01	60967	99.52					
654	24	0.04	60308	98.45	**701**	7	0.01	60974	99.53					
655	25	0.04	60333	98.49	**702**	20	0.03	60994	99.57					

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Table 169. Reading Grade 5 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
220	247	0.41	247	0.41	**331**	2	0.00	325	0.54	**381**	6	0.01	455	0.76
251	2	0.00	249	0.42	**332**	2	0.00	327	0.55	**382**	2	0.00	457	0.76
262	1	0.00	250	0.42	**334**	1	0.00	328	0.55	**383**	5	0.01	462	0.77
265	2	0.00	252	0.42	**335**	1	0.00	329	0.55	**384**	8	0.01	470	0.79
270	1	0.00	253	0.42	**336**	1	0.00	330	0.55	**385**	7	0.01	477	0.80
271	1	0.00	254	0.42	**337**	1	0.00	331	0.55	**386**	8	0.01	485	0.81
274	1	0.00	255	0.43	**338**	3	0.01	334	0.56	**387**	4	0.01	489	0.82
275	1	0.00	256	0.43	**339**	2	0.00	336	0.56	**388**	1	0.00	490	0.82
277	2	0.00	258	0.43	**341**	2	0.00	338	0.57	**389**	7	0.01	497	0.83
279	1	0.00	259	0.43	**342**	1	0.00	339	0.57	**390**	2	0.00	499	0.83
282	1	0.00	260	0.43	**343**	4	0.01	343	0.57	**391**	1	0.00	500	0.84
283	1	0.00	261	0.44	**344**	2	0.00	345	0.58	**392**	4	0.01	504	0.84
284	2	0.00	263	0.44	**345**	4	0.01	349	0.58	**393**	5	0.01	509	0.85
285	2	0.00	265	0.44	**346**	5	0.01	354	0.59	**394**	7	0.01	516	0.86
288	4	0.01	269	0.45	**347**	1	0.00	355	0.59	**395**	2	0.00	518	0.87
289	2	0.00	271	0.45	**348**	2	0.00	357	0.60	**396**	4	0.01	522	0.87
290	2	0.00	273	0.46	**349**	2	0.00	359	0.60	**397**	4	0.01	526	0.88
292	1	0.00	274	0.46	**350**	3	0.01	362	0.61	**398**	2	0.00	528	0.88
293	2	0.00	276	0.46	**351**	1	0.00	363	0.61	**399**	7	0.01	535	0.89
295	1	0.00	277	0.46	**352**	2	0.00	365	0.61	**400**	7	0.01	542	0.91
296	1	0.00	278	0.46	**353**	3	0.01	368	0.62	**401**	6	0.01	548	0.92
297	2	0.00	280	0.47	**354**	2	0.00	370	0.62	**402**	3	0.01	551	0.92
298	1	0.00	281	0.47	**355**	6	0.01	376	0.63	**403**	6	0.01	557	0.93
299	1	0.00	282	0.47	**356**	1	0.00	377	0.63	**404**	8	0.01	565	0.94
301	1	0.00	283	0.47	**357**	2	0.00	379	0.63	**405**	9	0.02	574	0.96
302	1	0.00	284	0.47	**358**	2	0.00	381	0.64	**406**	16	0.03	590	0.99
303	1	0.00	285	0.48	**359**	3	0.01	384	0.64	**407**	10	0.02	600	1.00
304	1	0.00	286	0.48	**361**	3	0.01	387	0.65	**408**	10	0.02	610	1.02
306	1	0.00	287	0.48	**362**	4	0.01	391	0.65	**409**	4	0.01	614	1.03
307	2	0.00	289	0.48	**363**	1	0.00	392	0.66	**410**	7	0.01	621	1.04
309	1	0.00	290	0.48	**364**	4	0.01	396	0.66	**411**	4	0.01	625	1.04
310	2	0.00	292	0.49	**365**	2	0.00	398	0.67	**412**	2	0.00	627	1.05
313	2	0.00	294	0.49	**366**	3	0.01	401	0.67	**413**	5	0.01	632	1.06
315	3	0.01	297	0.50	**367**	2	0.00	403	0.67	**414**	9	0.02	641	1.07
317	1	0.00	298	0.50	**368**	3	0.01	406	0.68	**415**	8	0.01	649	1.09
318	1	0.00	299	0.50	**369**	1	0.00	407	0.68	**416**	3	0.01	652	1.09
319	3	0.01	302	0.50	**370**	3	0.01	410	0.69	**417**	3	0.01	655	1.10
320	1	0.00	303	0.51	**371**	4	0.01	414	0.69	**418**	9	0.02	664	1.11
321	3	0.01	306	0.51	**372**	3	0.01	417	0.70	**419**	13	0.02	677	1.13
322	4	0.01	310	0.52	**373**	3	0.01	420	0.70	**420**	4	0.01	681	1.14
323	1	0.00	311	0.52	**374**	4	0.01	424	0.71	**421**	5	0.01	686	1.15
324	1	0.00	312	0.52	**375**	3	0.01	427	0.71	**422**	13	0.02	699	1.17
325	1	0.00	313	0.52	**376**	5	0.01	432	0.72	**423**	9	0.02	708	1.18
326	4	0.01	317	0.53	**377**	2	0.00	434	0.73	**424**	12	0.02	720	1.20
327	2	0.00	319	0.53	**378**	2	0.00	436	0.73	**425**	11	0.02	731	1.22
328	3	0.01	322	0.54	**379**	10	0.02	446	0.75	**426**	10	0.02	741	1.24
330	1	0.00	323	0.54	**380**	3	0.01	449	0.75	**427**	13	0.02	754	1.26

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Table 169. Reading Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
428	8	0.01	762	1.27	**475**	35	0.06	1865	3.12	**522**	93	0.16	5004	8.37
429	14	0.02	776	1.30	**476**	38	0.06	1903	3.18	**523**	93	0.16	5097	8.52
430	19	0.03	795	1.33	**477**	44	0.07	1947	3.26	**524**	94	0.16	5191	8.68
431	9	0.02	804	1.34	**478**	45	0.08	1992	3.33	**525**	103	0.17	5294	8.85
432	13	0.02	817	1.37	**479**	35	0.06	2027	3.39	**526**	137	0.23	5431	9.08
433	19	0.03	836	1.40	**480**	53	0.09	2080	3.48	**527**	97	0.16	5528	9.24
434	14	0.02	850	1.42	**481**	45	0.08	2125	3.55	**528**	141	0.24	5669	9.48
435	16	0.03	866	1.45	**482**	39	0.07	2164	3.62	**529**	112	0.19	5781	9.67
436	15	0.03	881	1.47	**483**	48	0.08	2212	3.70	**530**	110	0.18	5891	9.85
437	17	0.03	898	1.50	**484**	54	0.09	2266	3.79	**531**	109	0.18	6000	10.03
438	14	0.02	912	1.52	**485**	54	0.09	2320	3.88	**532**	138	0.23	6138	10.26
439	4	0.01	916	1.53	**486**	46	0.08	2366	3.96	**533**	123	0.21	6261	10.47
440	15	0.03	931	1.56	**487**	40	0.07	2406	4.02	**534**	124	0.21	6385	10.68
441	12	0.02	943	1.58	**488**	59	0.10	2465	4.12	**535**	122	0.20	6507	10.88
442	12	0.02	955	1.60	**489**	52	0.09	2517	4.21	**536**	132	0.22	6639	11.10
443	31	0.05	986	1.65	**490**	49	0.08	2566	4.29	**537**	127	0.21	6766	11.31
444	17	0.03	1003	1.68	**491**	52	0.09	2618	4.38	**538**	136	0.23	6902	11.54
445	19	0.03	1022	1.71	**492**	53	0.09	2671	4.47	**539**	138	0.23	7040	11.77
446	23	0.04	1045	1.75	**493**	55	0.09	2726	4.56	**540**	138	0.23	7178	12.00
447	20	0.03	1065	1.78	**494**	51	0.09	2777	4.64	**541**	172	0.29	7350	12.29
448	16	0.03	1081	1.81	**495**	51	0.09	2828	4.73	**542**	170	0.28	7520	12.57
449	21	0.04	1102	1.84	**496**	53	0.09	2881	4.82	**543**	160	0.27	7680	12.84
450	18	0.03	1120	1.87	**497**	64	0.11	2945	4.92	**544**	162	0.27	7842	13.11
451	22	0.04	1142	1.91	**498**	63	0.11	3008	5.03	**545**	140	0.23	7982	13.35
452	22	0.04	1164	1.95	**499**	68	0.11	3076	5.14	**546**	172	0.29	8154	13.63
453	19	0.03	1183	1.98	**500**	75	0.13	3151	5.27	**547**	176	0.29	8330	13.93
454	22	0.04	1205	2.01	**501**	76	0.13	3227	5.40	**548**	175	0.29	8505	14.22
455	29	0.05	1234	2.06	**502**	64	0.11	3291	5.50	**549**	178	0.30	8683	14.52
456	24	0.04	1258	2.10	**503**	63	0.11	3354	5.61	**550**	183	0.31	8866	14.82
457	26	0.04	1284	2.15	**504**	74	0.12	3428	5.73	**551**	176	0.29	9042	15.12
458	28	0.05	1312	2.19	**505**	78	0.13	3506	5.86	**552**	176	0.29	9218	15.41
459	27	0.05	1339	2.24	**506**	64	0.11	3570	5.97	**553**	169	0.28	9387	15.69
460	31	0.05	1370	2.29	**507**	81	0.14	3651	6.10	**554**	218	0.36	9605	16.06
461	28	0.05	1398	2.34	**508**	75	0.13	3726	6.23	**555**	189	0.32	9794	16.38
462	22	0.04	1420	2.37	**509**	62	0.10	3788	6.33	**556**	189	0.32	9983	16.69
463	39	0.07	1459	2.44	**510**	83	0.14	3871	6.47	**557**	190	0.32	10173	17.01
464	23	0.04	1482	2.48	**511**	78	0.13	3949	6.60	**558**	199	0.33	10372	17.34
465	35	0.06	1517	2.54	**512**	96	0.16	4045	6.76	**559**	199	0.33	10571	17.67
466	40	0.07	1557	2.60	**513**	86	0.14	4131	6.91	**560**	201	0.34	10772	18.01
467	34	0.06	1591	2.66	**514**	88	0.15	4219	7.05	**561**	206	0.34	10978	18.36
468	34	0.06	1625	2.72	**515**	80	0.13	4299	7.19	**562**	213	0.36	11191	18.71
469	33	0.06	1658	2.77	**516**	99	0.17	4398	7.35	**563**	251	0.42	11442	19.13
470	30	0.05	1688	2.82	**517**	93	0.16	4491	7.51	**564**	230	0.38	11672	19.52
471	34	0.06	1722	2.88	**518**	85	0.14	4576	7.65	**565**	207	0.35	11879	19.86
472	40	0.07	1762	2.95	**519**	108	0.18	4684	7.83	**566**	244	0.41	12123	20.27
473	26	0.04	1788	2.99	**520**	117	0.20	4801	8.03	**567**	226	0.38	12349	20.65
474	42	0.07	1830	3.06	**521**	110	0.18	4911	8.21	**568**	249	0.42	12598	21.06

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Table 169. Reading Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
569	223	0.37	12821	21.44	**616**	417	0.70	28572	47.77	**663**	294	0.49	47507	79.43
570	222	0.37	13043	21.81	**617**	414	0.69	28986	48.46	**664**	313	0.52	47820	79.95
571	219	0.37	13262	22.17	**618**	411	0.69	29397	49.15	**665**	313	0.52	48133	80.48
572	250	0.42	13512	22.59	**619**	397	0.66	29794	49.82	**666**	322	0.54	48455	81.02
573	270	0.45	13782	23.04	**620**	437	0.73	30231	50.55	**667**	309	0.52	48764	81.53
574	284	0.47	14066	23.52	**621**	437	0.73	30668	51.28	**668**	304	0.51	49068	82.04
575	270	0.45	14336	23.97	**622**	447	0.75	31115	52.02	**669**	301	0.50	49369	82.54
576	258	0.43	14594	24.40	**623**	456	0.76	31571	52.79	**670**	283	0.47	49652	83.02
577	278	0.46	14872	24.87	**624**	446	0.75	32017	53.53	**671**	324	0.54	49976	83.56
578	281	0.47	15153	25.34	**625**	414	0.69	32431	54.22	**672**	293	0.49	50269	84.05
579	296	0.49	15449	25.83	**626**	435	0.73	32866	54.95	**673**	302	0.50	50571	84.55
580	297	0.50	15746	26.33	**627**	437	0.73	33303	55.68	**674**	312	0.52	50883	85.08
581	304	0.51	16050	26.84	**628**	405	0.68	33708	56.36	**675**	259	0.43	51142	85.51
582	299	0.50	16349	27.34	**629**	411	0.69	34119	57.05	**676**	231	0.39	51373	85.90
583	327	0.55	16676	27.88	**630**	406	0.68	34525	57.73	**677**	255	0.43	51628	86.32
584	308	0.51	16984	28.40	**631**	426	0.71	34951	58.44	**678**	257	0.43	51885	86.75
585	291	0.49	17275	28.88	**632**	441	0.74	35392	59.18	**679**	267	0.45	52152	87.20
586	307	0.51	17582	29.40	**633**	461	0.77	35853	59.95	**680**	251	0.42	52403	87.62
587	314	0.53	17896	29.92	**634**	447	0.75	36300	60.69	**681**	220	0.37	52623	87.99
588	332	0.56	18228	30.48	**635**	433	0.72	36733	61.42	**682**	239	0.40	52862	88.38
589	324	0.54	18552	31.02	**636**	390	0.65	37123	62.07	**683**	225	0.38	53087	88.76
590	322	0.54	18874	31.56	**637**	402	0.67	37525	62.74	**684**	223	0.37	53310	89.13
591	322	0.54	19196	32.10	**638**	412	0.69	37937	63.43	**685**	203	0.34	53513	89.47
592	343	0.57	19539	32.67	**639**	459	0.77	38396	64.20	**686**	192	0.32	53705	89.79
593	302	0.50	19841	33.17	**640**	426	0.71	38822	64.91	**687**	219	0.37	53924	90.16
594	316	0.53	20157	33.70	**641**	406	0.68	39228	65.59	**688**	182	0.30	54106	90.46
595	357	0.60	20514	34.30	**642**	394	0.66	39622	66.25	**689**	193	0.32	54299	90.79
596	354	0.59	20868	34.89	**643**	420	0.70	40042	66.95	**690**	198	0.33	54497	91.12
597	361	0.60	21229	35.49	**644**	386	0.65	40428	67.60	**691**	189	0.32	54686	91.43
598	421	0.70	21650	36.20	**645**	418	0.70	40846	68.29	**692**	193	0.32	54879	91.76
599	373	0.62	22023	36.82	**646**	420	0.70	41266	69.00	**693**	168	0.28	55047	92.04
600	366	0.61	22389	37.43	**647**	393	0.66	41659	69.65	**694**	168	0.28	55215	92.32
601	329	0.55	22718	37.98	**648**	390	0.65	42049	70.31	**695**	189	0.32	55404	92.63
602	362	0.61	23080	38.59	**649**	382	0.64	42431	70.94	**696**	178	0.30	55582	92.93
603	388	0.65	23468	39.24	**650**	393	0.66	42824	71.60	**697**	172	0.29	55754	93.22
604	377	0.63	23845	39.87	**651**	392	0.66	43216	72.26	**698**	143	0.24	55897	93.46
605	354	0.59	24199	40.46	**652**	391	0.65	43607	72.91	**699**	133	0.22	56030	93.68
606	418	0.70	24617	41.16	**653**	362	0.61	43969	73.52	**700**	150	0.25	56180	93.93
607	399	0.67	25016	41.83	**654**	377	0.63	44346	74.15	**701**	140	0.23	56320	94.17
608	390	0.65	25406	42.48	**655**	355	0.59	44701	74.74	**702**	124	0.21	56444	94.37
609	384	0.64	25790	43.12	**656**	363	0.61	45064	75.35	**703**	106	0.18	56550	94.55
610	367	0.61	26157	43.73	**657**	356	0.60	45420	75.94	**704**	119	0.20	56669	94.75
611	381	0.64	26538	44.37	**658**	392	0.66	45812	76.60	**705**	107	0.18	56776	94.93
612	393	0.66	26931	45.03	**659**	353	0.59	46165	77.19	**706**	117	0.20	56893	95.12
613	417	0.70	27348	45.73	**660**	355	0.59	46520	77.78	**707**	142	0.24	57035	95.36
614	396	0.66	27744	46.39	**661**	338	0.57	46858	78.35	**708**	96	0.16	57131	95.52
615	411	0.69	28155	47.07	**662**	355	0.59	47213	78.94	**709**	94	0.16	57225	95.68

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Table 169. Reading Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
710	102	0.17	57327	95.85	**757**	13	0.02	59560	99.58	**813**	3	0.01	59797	99.98
711	102	0.17	57429	96.02	**758**	14	0.02	59574	99.61	**816**	1	0.00	59798	99.98
712	102	0.17	57531	96.19	**759**	12	0.02	59586	99.63	**819**	1	0.00	59799	99.98
713	86	0.14	57617	96.33	**760**	11	0.02	59597	99.65	**822**	2	0.00	59801	99.99
714	94	0.16	57711	96.49	**761**	13	0.02	59610	99.67	**823**	2	0.00	59803	99.99
715	87	0.15	57798	96.64	**762**	6	0.01	59616	99.68	**824**	1	0.00	59804	99.99
716	95	0.16	57893	96.80	**763**	16	0.03	59632	99.70	**827**	1	0.00	59805	99.99
717	91	0.15	57984	96.95	**764**	11	0.02	59643	99.72	**835**	1	0.00	59806	99.99
718	74	0.12	58058	97.07	**765**	9	0.02	59652	99.74	**841**	1	0.00	59807	100
719	85	0.14	58143	97.21	**766**	7	0.01	59659	99.75	**844**	1	0.00	59808	100
720	83	0.14	58226	97.35	**767**	4	0.01	59663	99.76	**855**	1	0.00	59809	100
721	68	0.11	58294	97.47	**768**	11	0.02	59674	99.77					
722	73	0.12	58367	97.59	**769**	10	0.02	59684	99.79					
723	71	0.12	58438	97.71	**770**	4	0.01	59688	99.80					
724	67	0.11	58505	97.82	**771**	4	0.01	59692	99.80					
725	58	0.10	58563	97.92	**772**	5	0.01	59697	99.81					
726	54	0.09	58617	98.01	**773**	5	0.01	59702	99.82					
727	48	0.08	58665	98.09	**774**	2	0.00	59704	99.82					
728	63	0.11	58728	98.19	**775**	9	0.02	59713	99.84					
729	57	0.10	58785	98.29	**776**	5	0.01	59718	99.85					
730	44	0.07	58829	98.36	**777**	7	0.01	59725	99.86					
731	42	0.07	58871	98.43	**778**	5	0.01	59730	99.87					
732	47	0.08	58918	98.51	**779**	8	0.01	59738	99.88					
733	53	0.09	58971	98.60	**780**	6	0.01	59744	99.89					
734	52	0.09	59023	98.69	**781**	6	0.01	59750	99.90					
735	51	0.09	59074	98.77	**782**	3	0.01	59753	99.91					
736	41	0.07	59115	98.84	**783**	4	0.01	59757	99.91					
737	31	0.05	59146	98.89	**784**	2	0.00	59759	99.92					
738	41	0.07	59187	98.96	**785**	1	0.00	59760	99.92					
739	31	0.05	59218	99.01	**786**	2	0.00	59762	99.92					
740	37	0.06	59255	99.07	**787**	1	0.00	59763	99.92					
741	25	0.04	59280	99.12	**788**	1	0.00	59764	99.92					
742	29	0.05	59309	99.16	**789**	3	0.01	59767	99.93					
743	33	0.06	59342	99.22	**790**	2	0.00	59769	99.93					
744	23	0.04	59365	99.26	**791**	2	0.00	59771	99.94					
745	18	0.03	59383	99.29	**792**	4	0.01	59775	99.94					
746	28	0.05	59411	99.33	**793**	3	0.01	59778	99.95					
747	17	0.03	59428	99.36	**795**	1	0.00	59779	99.95					
748	19	0.03	59447	99.39	**796**	3	0.01	59782	99.95					
749	9	0.02	59456	99.41	**798**	3	0.01	59785	99.96					
750	11	0.02	59467	99.43	**799**	1	0.00	59786	99.96					
751	20	0.03	59487	99.46	**800**	2	0.00	59788	99.96					
752	12	0.02	59499	99.48	**802**	1	0.00	59789	99.97					
753	15	0.03	59514	99.51	**803**	1	0.00	59790	99.97					
754	9	0.02	59523	99.52	**806**	1	0.00	59791	99.97					
755	10	0.02	59533	99.54	**807**	1	0.00	59792	99.97					
756	14	0.02	59547	99.56	**809**	2	0.00	59794	99.97					

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Table 170. Writing Grade 5 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
220	13	0.02	13	0.02	**309**	3	0.01	78	0.13	**357**	14	0.02	327	0.55
222	1	0.00	14	0.02	**310**	2	0.00	80	0.13	**358**	13	0.02	340	0.57
223	1	0.00	15	0.03	**311**	2	0.00	82	0.14	**359**	9	0.02	349	0.58
226	1	0.00	16	0.03	**312**	3	0.01	85	0.14	**360**	14	0.02	363	0.61
228	1	0.00	17	0.03	**313**	1	0.00	86	0.14	**361**	16	0.03	379	0.63
229	1	0.00	18	0.03	**314**	2	0.00	88	0.15	**362**	13	0.02	392	0.66
230	1	0.00	19	0.03	**315**	1	0.00	89	0.15	**363**	13	0.02	405	0.68
231	1	0.00	20	0.03	**316**	2	0.00	91	0.15	**364**	17	0.03	422	0.71
233	1	0.00	21	0.04	**317**	5	0.01	96	0.16	**365**	10	0.02	432	0.72
238	1	0.00	22	0.04	**318**	1	0.00	97	0.16	**366**	20	0.03	452	0.76
241	1	0.00	23	0.04	**319**	5	0.01	102	0.17	**367**	26	0.04	478	0.80
242	1	0.00	24	0.04	**320**	4	0.01	106	0.18	**368**	20	0.03	498	0.83
243	1	0.00	25	0.04	**321**	2	0.00	108	0.18	**369**	21	0.04	519	0.87
244	1	0.00	26	0.04	**322**	9	0.02	117	0.20	**370**	19	0.03	538	0.90
247	1	0.00	27	0.05	**324**	6	0.01	123	0.21	**371**	25	0.04	563	0.94
256	1	0.00	28	0.05	**325**	2	0.00	125	0.21	**372**	23	0.04	586	0.98
261	1	0.00	29	0.05	**326**	2	0.00	127	0.21	**373**	20	0.03	606	1.01
262	1	0.00	30	0.05	**327**	1	0.00	128	0.21	**374**	28	0.05	634	1.06
263	1	0.00	31	0.05	**328**	4	0.01	132	0.22	**375**	31	0.05	665	1.11
266	1	0.00	32	0.05	**329**	5	0.01	137	0.23	**376**	25	0.04	690	1.15
270	1	0.00	33	0.06	**330**	1	0.00	138	0.23	**377**	23	0.04	713	1.19
272	1	0.00	34	0.06	**331**	5	0.01	143	0.24	**378**	33	0.06	746	1.25
273	1	0.00	35	0.06	**332**	4	0.01	147	0.25	**379**	32	0.05	778	1.30
276	1	0.00	36	0.06	**333**	1	0.00	148	0.25	**380**	34	0.06	812	1.36
277	1	0.00	37	0.06	**334**	6	0.01	154	0.26	**381**	27	0.05	839	1.40
279	1	0.00	38	0.06	**335**	5	0.01	159	0.27	**382**	30	0.05	869	1.45
280	1	0.00	39	0.07	**336**	2	0.00	161	0.27	**383**	29	0.05	898	1.50
282	1	0.00	40	0.07	**337**	6	0.01	167	0.28	**384**	40	0.07	938	1.57
284	1	0.00	41	0.07	**338**	6	0.01	173	0.29	**385**	32	0.05	970	1.62
285	1	0.00	42	0.07	**339**	5	0.01	178	0.30	**386**	25	0.04	995	1.67
286	1	0.00	43	0.07	**340**	5	0.01	183	0.31	**387**	40	0.07	1035	1.73
288	5	0.01	48	0.08	**341**	11	0.02	194	0.32	**388**	39	0.07	1074	1.80
289	1	0.00	49	0.08	**342**	3	0.01	197	0.33	**389**	35	0.06	1109	1.86
290	2	0.00	51	0.09	**343**	6	0.01	203	0.34	**390**	48	0.08	1157	1.94
292	2	0.00	53	0.09	**344**	10	0.02	213	0.36	**391**	52	0.09	1209	2.02
293	1	0.00	54	0.09	**345**	7	0.01	220	0.37	**392**	65	0.11	1274	2.13
294	2	0.00	56	0.09	**346**	6	0.01	226	0.38	**393**	62	0.10	1336	2.24
296	2	0.00	58	0.10	**347**	5	0.01	231	0.39	**394**	44	0.07	1380	2.31
297	2	0.00	60	0.10	**348**	7	0.01	238	0.40	**395**	59	0.10	1439	2.41
299	2	0.00	62	0.10	**349**	4	0.01	242	0.41	**396**	58	0.10	1497	2.51
300	2	0.00	64	0.11	**350**	8	0.01	250	0.42	**397**	63	0.11	1560	2.61
303	1	0.00	65	0.11	**351**	11	0.02	261	0.44	**398**	59	0.10	1619	2.71
304	1	0.00	66	0.11	**352**	7	0.01	268	0.45	**399**	61	0.10	1680	2.81
305	3	0.01	69	0.12	**353**	11	0.02	279	0.47	**400**	57	0.10	1737	2.91
306	1	0.00	70	0.12	**354**	13	0.02	292	0.49	**401**	63	0.11	1800	3.01
307	3	0.01	73	0.12	**355**	12	0.02	304	0.51	**402**	61	0.10	1861	3.11
308	2	0.00	75	0.13	**356**	9	0.02	313	0.52	**403**	63	0.11	1924	3.22

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Table 170. Writing Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
404	76	0.13	2000	3.35	**451**	245	0.41	8938	14.96	**498**	406	0.68	25580	42.82
405	81	0.14	2081	3.48	**452**	250	0.42	9188	15.38	**499**	448	0.75	26028	43.57
406	68	0.11	2149	3.60	**453**	275	0.46	9463	15.84	**500**	443	0.74	26471	44.31
407	89	0.15	2238	3.75	**454**	263	0.44	9726	16.28	**501**	432	0.72	26903	45.03
408	85	0.14	2323	3.89	**455**	244	0.41	9970	16.69	**502**	479	0.80	27382	45.83
409	71	0.12	2394	4.01	**456**	254	0.43	10224	17.11	**503**	496	0.83	27878	46.66
410	97	0.16	2491	4.17	**457**	245	0.41	10469	17.52	**504**	437	0.73	28315	47.39
411	93	0.16	2584	4.33	**458**	282	0.47	10751	17.99	**505**	437	0.73	28752	48.12
412	72	0.12	2656	4.45	**459**	275	0.46	11026	18.46	**506**	448	0.75	29200	48.87
413	78	0.13	2734	4.58	**460**	286	0.48	11312	18.93	**507**	447	0.75	29647	49.62
414	104	0.17	2838	4.75	**461**	282	0.47	11594	19.41	**508**	481	0.81	30128	50.43
415	92	0.15	2930	4.90	**462**	321	0.54	11915	19.94	**509**	500	0.84	30628	51.26
416	105	0.18	3035	5.08	**463**	326	0.55	12241	20.49	**510**	460	0.77	31088	52.03
417	113	0.19	3148	5.27	**464**	289	0.48	12530	20.97	**511**	406	0.68	31494	52.71
418	107	0.18	3255	5.45	**465**	299	0.50	12829	21.47	**512**	456	0.76	31950	53.48
419	105	0.18	3360	5.62	**466**	309	0.52	13138	21.99	**513**	464	0.78	32414	54.25
420	134	0.22	3494	5.85	**467**	323	0.54	13461	22.53	**514**	505	0.85	32919	55.10
421	112	0.19	3606	6.04	**468**	319	0.53	13780	23.06	**515**	469	0.79	33388	55.88
422	126	0.21	3732	6.25	**469**	352	0.59	14132	23.65	**516**	463	0.77	33851	56.66
423	130	0.22	3862	6.46	**470**	324	0.54	14456	24.20	**517**	441	0.74	34292	57.40
424	135	0.23	3997	6.69	**471**	353	0.59	14809	24.79	**518**	464	0.78	34756	58.17
425	127	0.21	4124	6.90	**472**	358	0.60	15167	25.39	**519**	468	0.78	35224	58.96
426	137	0.23	4261	7.13	**473**	341	0.57	15508	25.96	**520**	466	0.78	35690	59.74
427	149	0.25	4410	7.38	**474**	368	0.62	15876	26.57	**521**	450	0.75	36140	60.49
428	130	0.22	4540	7.60	**475**	351	0.59	16227	27.16	**522**	464	0.78	36604	61.27
429	146	0.24	4686	7.84	**476**	369	0.62	16596	27.78	**523**	419	0.70	37023	61.97
430	151	0.25	4837	8.10	**477**	376	0.63	16972	28.41	**524**	450	0.75	37473	62.72
431	165	0.28	5002	8.37	**478**	367	0.61	17339	29.02	**525**	467	0.78	37940	63.50
432	170	0.28	5172	8.66	**479**	392	0.66	17731	29.68	**526**	430	0.72	38370	64.22
433	162	0.27	5334	8.93	**480**	399	0.67	18130	30.35	**527**	425	0.71	38795	64.93
434	162	0.27	5496	9.20	**481**	371	0.62	18501	30.97	**528**	411	0.69	39206	65.62
435	158	0.26	5654	9.46	**482**	372	0.62	18873	31.59	**529**	410	0.69	39616	66.31
436	172	0.29	5826	9.75	**483**	399	0.67	19272	32.26	**530**	418	0.70	40034	67.01
437	175	0.29	6001	10.04	**484**	391	0.65	19663	32.91	**531**	418	0.70	40452	67.71
438	167	0.28	6168	10.32	**485**	436	0.73	20099	33.64	**532**	422	0.71	40874	68.41
439	199	0.33	6367	10.66	**486**	411	0.69	20510	34.33	**533**	404	0.68	41278	69.09
440	172	0.29	6539	10.94	**487**	401	0.67	20911	35.00	**534**	402	0.67	41680	69.76
441	197	0.33	6736	11.27	**488**	387	0.65	21298	35.65	**535**	451	0.75	42131	70.52
442	199	0.33	6935	11.61	**489**	407	0.68	21705	36.33	**536**	451	0.75	42582	71.27
443	222	0.37	7157	11.98	**490**	414	0.69	22119	37.02	**537**	397	0.66	42979	71.94
444	209	0.35	7366	12.33	**491**	449	0.75	22568	37.77	**538**	379	0.63	43358	72.57
445	204	0.34	7570	12.67	**492**	404	0.68	22972	38.45	**539**	403	0.67	43761	73.25
446	215	0.36	7785	13.03	**493**	415	0.69	23387	39.14	**540**	360	0.60	44121	73.85
447	213	0.36	7998	13.39	**494**	452	0.76	23839	39.90	**541**	404	0.68	44525	74.53
448	206	0.34	8204	13.73	**495**	456	0.76	24295	40.66	**542**	400	0.67	44925	75.19
449	237	0.40	8441	14.13	**496**	436	0.73	24731	41.39	**543**	362	0.61	45287	75.80
450	252	0.42	8693	14.55	**497**	443	0.74	25174	42.14	**544**	336	0.56	45623	76.36

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Table 170. Writing Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
545	362	0.61	45985	76.97	**592**	95	0.16	56487	94.55	**639**	22	0.04	59117	98.95
546	348	0.58	46333	77.55	**593**	125	0.21	56612	94.76	**640**	22	0.04	59139	98.99
547	326	0.55	46659	78.10	**594**	101	0.17	56713	94.93	**641**	24	0.04	59163	99.03
548	314	0.53	46973	78.62	**595**	88	0.15	56801	95.07	**642**	36	0.06	59199	99.09
549	319	0.53	47292	79.16	**596**	88	0.15	56889	95.22	**643**	13	0.02	59212	99.11
550	327	0.55	47619	79.70	**597**	100	0.17	56989	95.39	**644**	7	0.01	59219	99.12
551	314	0.53	47933	80.23	**598**	114	0.19	57103	95.58	**645**	9	0.02	59228	99.13
552	334	0.56	48267	80.79	**599**	102	0.17	57205	95.75	**646**	15	0.03	59243	99.16
553	304	0.51	48571	81.30	**600**	88	0.15	57293	95.90	**647**	8	0.01	59251	99.17
554	281	0.47	48852	81.77	**601**	132	0.22	57425	96.12	**648**	14	0.02	59265	99.20
555	301	0.50	49153	82.27	**602**	73	0.12	57498	96.24	**649**	17	0.03	59282	99.23
556	292	0.49	49445	82.76	**603**	83	0.14	57581	96.38	**650**	14	0.02	59296	99.25
557	282	0.47	49727	83.23	**604**	74	0.12	57655	96.50	**651**	12	0.02	59308	99.27
558	322	0.54	50049	83.77	**605**	61	0.10	57716	96.60	**652**	19	0.03	59327	99.30
559	254	0.43	50303	84.20	**606**	56	0.09	57772	96.70	**653**	7	0.01	59334	99.31
560	260	0.44	50563	84.63	**607**	65	0.11	57837	96.81	**654**	24	0.04	59358	99.35
561	249	0.42	50812	85.05	**608**	55	0.09	57892	96.90	**655**	4	0.01	59362	99.36
562	267	0.45	51079	85.50	**609**	49	0.08	57941	96.98	**656**	43	0.07	59405	99.43
563	275	0.46	51354	85.96	**610**	50	0.08	57991	97.06	**657**	6	0.01	59411	99.44
564	262	0.44	51616	86.39	**611**	45	0.08	58036	97.14	**658**	1	0.00	59412	99.44
565	246	0.41	51862	86.81	**612**	107	0.18	58143	97.32	**659**	13	0.02	59425	99.46
566	248	0.42	52110	87.22	**613**	58	0.10	58201	97.42	**660**	8	0.01	59433	99.48
567	255	0.43	52365	87.65	**614**	56	0.09	58257	97.51	**661**	18	0.03	59451	99.51
568	234	0.39	52599	88.04	**615**	42	0.07	58299	97.58	**662**	4	0.01	59455	99.51
569	200	0.33	52799	88.37	**616**	66	0.11	58365	97.69	**663**	9	0.02	59464	99.53
570	228	0.38	53027	88.76	**617**	34	0.06	58399	97.75	**664**	3	0.01	59467	99.53
571	213	0.36	53240	89.11	**618**	31	0.05	58430	97.80	**665**	3	0.01	59470	99.54
572	187	0.31	53427	89.43	**619**	28	0.05	58458	97.85	**666**	10	0.02	59480	99.56
573	190	0.32	53617	89.74	**620**	43	0.07	58501	97.92	**667**	3	0.01	59483	99.56
574	203	0.34	53820	90.08	**621**	36	0.06	58537	97.98	**668**	4	0.01	59487	99.57
575	182	0.30	54002	90.39	**622**	51	0.09	58588	98.06	**669**	5	0.01	59492	99.58
576	188	0.31	54190	90.70	**623**	30	0.05	58618	98.11	**670**	12	0.02	59504	99.60
577	183	0.31	54373	91.01	**624**	39	0.07	58657	98.18	**671**	6	0.01	59510	99.61
578	182	0.30	54555	91.31	**625**	58	0.10	58715	98.28	**672**	6	0.01	59516	99.62
579	146	0.24	54701	91.56	**626**	29	0.05	58744	98.32	**673**	6	0.01	59522	99.63
580	156	0.26	54857	91.82	**627**	45	0.08	58789	98.40	**674**	9	0.02	59531	99.64
581	148	0.25	55005	92.07	**628**	31	0.05	58820	98.45	**675**	4	0.01	59535	99.65
582	177	0.30	55182	92.36	**629**	35	0.06	58855	98.51	**676**	3	0.01	59538	99.65
583	160	0.27	55342	92.63	**630**	33	0.06	58888	98.57	**677**	10	0.02	59548	99.67
584	147	0.25	55489	92.88	**631**	29	0.05	58917	98.61	**678**	4	0.01	59552	99.68
585	136	0.23	55625	93.10	**632**	21	0.04	58938	98.65	**679**	1	0.00	59553	99.68
586	134	0.22	55759	93.33	**633**	31	0.05	58969	98.70	**680**	36	0.06	59589	99.74
587	136	0.23	55895	93.56	**634**	27	0.05	58996	98.75	**681**	10	0.02	59599	99.76
588	130	0.22	56025	93.77	**635**	16	0.03	59012	98.77	**682**	1	0.00	59600	99.76
589	126	0.21	56151	93.98	**636**	38	0.06	59050	98.84	**684**	18	0.03	59618	99.79
590	130	0.22	56281	94.20	**637**	20	0.03	59070	98.87	**685**	2	0.00	59620	99.79
591	111	0.19	56392	94.39	**638**	25	0.04	59095	98.91	**686**	2	0.00	59622	99.79

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Table 170. Writing Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
687	4	0.01	59626	99.80
688	4	0.01	59630	99.81
690	4	0.01	59634	99.81
691	1	0.00	59635	99.82
692	1	0.00	59636	99.82
694	4	0.01	59640	99.82
695	3	0.01	59643	99.83
699	4	0.01	59647	99.84
700	1	0.00	59648	99.84
701	1	0.00	59649	99.84
704	2	0.00	59651	99.84
707	2	0.00	59653	99.85
708	1	0.00	59654	99.85
709	1	0.00	59655	99.85
710	2	0.00	59657	99.85
711	3	0.01	59660	99.86
713	3	0.01	59663	99.86
715	1	0.00	59664	99.86
718	13	0.02	59677	99.89
719	14	0.02	59691	99.91
724	17	0.03	59708	99.94
726	7	0.01	59715	99.95
733	6	0.01	59721	99.96
747	2	0.00	59723	99.96
780	22	0.04	59745	100

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Table 171. Mathematics Grade 5 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
220	48	0.08	48	0.08	**277**	3	0.01	146	0.24	**325**	9	0.02	461	0.77
221	4	0.01	52	0.09	**278**	3	0.01	149	0.25	**326**	13	0.02	474	0.79
224	1	0.00	53	0.09	**279**	6	0.01	155	0.26	**327**	14	0.02	488	0.82
226	1	0.00	54	0.09	**280**	1	0.00	156	0.26	**328**	14	0.02	502	0.84
227	1	0.00	55	0.09	**281**	3	0.01	159	0.27	**329**	16	0.03	518	0.87
228	1	0.00	56	0.09	**282**	4	0.01	163	0.27	**330**	11	0.02	529	0.88
229	1	0.00	57	0.10	**283**	1	0.00	164	0.27	**331**	11	0.02	540	0.90
230	3	0.01	60	0.10	**284**	4	0.01	168	0.28	**332**	16	0.03	556	0.93
232	1	0.00	61	0.10	**285**	11	0.02	179	0.30	**333**	18	0.03	574	0.96
234	2	0.00	63	0.11	**286**	3	0.01	182	0.30	**334**	13	0.02	587	0.98
235	2	0.00	65	0.11	**288**	1	0.00	183	0.31	**335**	13	0.02	600	1.00
236	1	0.00	66	0.11	**289**	3	0.01	186	0.31	**336**	22	0.04	622	1.04
237	2	0.00	68	0.11	**290**	4	0.01	190	0.32	**337**	12	0.02	634	1.06
238	1	0.00	69	0.12	**291**	5	0.01	195	0.33	**338**	11	0.02	645	1.08
239	2	0.00	71	0.12	**292**	3	0.01	198	0.33	**339**	19	0.03	664	1.11
241	2	0.00	73	0.12	**293**	2	0.00	200	0.33	**340**	19	0.03	683	1.14
242	2	0.00	75	0.13	**294**	4	0.01	204	0.34	**341**	27	0.05	710	1.19
243	1	0.00	76	0.13	**295**	4	0.01	208	0.35	**342**	20	0.03	730	1.22
244	2	0.00	78	0.13	**296**	6	0.01	214	0.36	**343**	19	0.03	749	1.25
245	1	0.00	79	0.13	**297**	7	0.01	221	0.37	**344**	14	0.02	763	1.27
246	1	0.00	80	0.13	**298**	4	0.01	225	0.38	**345**	13	0.02	776	1.30
247	1	0.00	81	0.14	**299**	2	0.00	227	0.38	**346**	29	0.05	805	1.34
248	1	0.00	82	0.14	**300**	4	0.01	231	0.39	**347**	23	0.04	828	1.38
250	1	0.00	83	0.14	**301**	7	0.01	238	0.40	**348**	27	0.05	855	1.43
251	2	0.00	85	0.14	**302**	7	0.01	245	0.41	**349**	25	0.04	880	1.47
252	2	0.00	87	0.15	**303**	9	0.02	254	0.42	**350**	29	0.05	909	1.52
254	2	0.00	89	0.15	**304**	5	0.01	259	0.43	**351**	17	0.03	926	1.55
255	1	0.00	90	0.15	**305**	11	0.02	270	0.45	**352**	25	0.04	951	1.59
256	3	0.01	93	0.16	**306**	10	0.02	280	0.47	**353**	26	0.04	977	1.63
257	2	0.00	95	0.16	**307**	9	0.02	289	0.48	**354**	20	0.03	997	1.67
258	3	0.01	98	0.16	**308**	7	0.01	296	0.49	**355**	27	0.05	1024	1.71
259	1	0.00	99	0.17	**309**	13	0.02	309	0.52	**356**	37	0.06	1061	1.77
260	4	0.01	103	0.17	**310**	13	0.02	322	0.54	**357**	25	0.04	1086	1.81
261	6	0.01	109	0.18	**311**	7	0.01	329	0.55	**358**	27	0.05	1113	1.86
262	5	0.01	114	0.19	**312**	8	0.01	337	0.56	**359**	27	0.05	1140	1.90
263	4	0.01	118	0.20	**313**	13	0.02	350	0.58	**360**	29	0.05	1169	1.95
264	1	0.00	119	0.20	**314**	8	0.01	358	0.60	**361**	32	0.05	1201	2.01
265	2	0.00	121	0.20	**315**	9	0.02	367	0.61	**362**	23	0.04	1224	2.04
266	1	0.00	122	0.20	**316**	8	0.01	375	0.63	**363**	37	0.06	1261	2.11
268	1	0.00	123	0.21	**317**	12	0.02	387	0.65	**364**	41	0.07	1302	2.17
269	4	0.01	127	0.21	**318**	3	0.01	390	0.65	**365**	36	0.06	1338	2.24
270	1	0.00	128	0.21	**319**	10	0.02	400	0.67	**366**	34	0.06	1372	2.29
272	4	0.01	132	0.22	**320**	7	0.01	407	0.68	**367**	44	0.07	1416	2.37
273	4	0.01	136	0.23	**321**	13	0.02	420	0.70	**368**	39	0.07	1455	2.43
274	1	0.00	137	0.23	**322**	11	0.02	431	0.72	**369**	39	0.07	1494	2.50
275	5	0.01	142	0.24	**323**	13	0.02	444	0.74	**370**	35	0.06	1529	2.55
276	1	0.00	143	0.24	**324**	8	0.01	452	0.76	**371**	31	0.05	1560	2.61

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Table 171. Mathematics Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
372	42	0.07	1602	2.68	**419**	104	0.17	5011	8.37	**466**	221	0.37	13122	21.92
373	49	0.08	1651	2.76	**420**	133	0.22	5144	8.59	**467**	244	0.41	13366	22.33
374	41	0.07	1692	2.83	**421**	126	0.21	5270	8.80	**468**	234	0.39	13600	22.72
375	40	0.07	1732	2.89	**422**	116	0.19	5386	9.00	**469**	254	0.42	13854	23.14
376	61	0.10	1793	3.00	**423**	120	0.20	5506	9.20	**470**	237	0.40	14091	23.54
377	48	0.08	1841	3.08	**424**	122	0.20	5628	9.40	**471**	247	0.41	14338	23.95
378	41	0.07	1882	3.14	**425**	131	0.22	5759	9.62	**472**	256	0.43	14594	24.38
379	38	0.06	1920	3.21	**426**	112	0.19	5871	9.81	**473**	281	0.47	14875	24.85
380	52	0.09	1972	3.29	**427**	118	0.20	5989	10.00	**474**	261	0.44	15136	25.28
381	57	0.10	2029	3.39	**428**	143	0.24	6132	10.24	**475**	242	0.40	15378	25.69
382	58	0.10	2087	3.49	**429**	136	0.23	6268	10.47	**476**	245	0.41	15623	26.10
383	52	0.09	2139	3.57	**430**	140	0.23	6408	10.70	**477**	246	0.41	15869	26.51
384	49	0.08	2188	3.66	**431**	138	0.23	6546	10.93	**478**	272	0.45	16141	26.96
385	43	0.07	2231	3.73	**432**	144	0.24	6690	11.18	**479**	242	0.40	16383	27.37
386	60	0.10	2291	3.83	**433**	147	0.25	6837	11.42	**480**	263	0.44	16646	27.81
387	50	0.08	2341	3.91	**434**	129	0.22	6966	11.64	**481**	319	0.53	16965	28.34
388	49	0.08	2390	3.99	**435**	159	0.27	7125	11.90	**482**	271	0.45	17236	28.79
389	70	0.12	2460	4.11	**436**	147	0.25	7272	12.15	**483**	299	0.50	17535	29.29
390	67	0.11	2527	4.22	**437**	157	0.26	7429	12.41	**484**	278	0.46	17813	29.76
391	64	0.11	2591	4.33	**438**	171	0.29	7600	12.70	**485**	242	0.40	18055	30.16
392	64	0.11	2655	4.44	**439**	183	0.31	7783	13.00	**486**	298	0.50	18353	30.66
393	78	0.13	2733	4.57	**440**	154	0.26	7937	13.26	**487**	267	0.45	18620	31.10
394	59	0.10	2792	4.66	**441**	165	0.28	8102	13.53	**488**	296	0.49	18916	31.60
395	50	0.08	2842	4.75	**442**	171	0.29	8273	13.82	**489**	284	0.47	19200	32.07
396	81	0.14	2923	4.88	**443**	176	0.29	8449	14.11	**490**	301	0.50	19501	32.58
397	67	0.11	2990	4.99	**444**	187	0.31	8636	14.43	**491**	292	0.49	19793	33.06
398	67	0.11	3057	5.11	**445**	185	0.31	8821	14.74	**492**	296	0.49	20089	33.56
399	85	0.14	3142	5.25	**446**	174	0.29	8995	15.03	**493**	298	0.50	20387	34.06
400	77	0.13	3219	5.38	**447**	174	0.29	9169	15.32	**494**	297	0.50	20684	34.55
401	83	0.14	3302	5.52	**448**	184	0.31	9353	15.62	**495**	277	0.46	20961	35.01
402	111	0.19	3413	5.70	**449**	190	0.32	9543	15.94	**496**	318	0.53	21279	35.55
403	68	0.11	3481	5.81	**450**	185	0.31	9728	16.25	**497**	286	0.48	21565	36.02
404	86	0.14	3567	5.96	**451**	204	0.34	9932	16.59	**498**	304	0.51	21869	36.53
405	81	0.14	3648	6.09	**452**	187	0.31	10119	16.90	**499**	300	0.50	22169	37.03
406	82	0.14	3730	6.23	**453**	167	0.28	10286	17.18	**500**	298	0.50	22467	37.53
407	79	0.13	3809	6.36	**454**	211	0.35	10497	17.54	**501**	303	0.51	22770	38.04
408	83	0.14	3892	6.50	**455**	194	0.32	10691	17.86	**502**	351	0.59	23121	38.62
409	85	0.14	3977	6.64	**456**	195	0.33	10886	18.18	**503**	310	0.52	23431	39.14
410	92	0.15	4069	6.80	**457**	206	0.34	11092	18.53	**504**	323	0.54	23754	39.68
411	91	0.15	4160	6.95	**458**	214	0.36	11306	18.89	**505**	323	0.54	24077	40.22
412	105	0.18	4265	7.12	**459**	237	0.40	11543	19.28	**506**	307	0.51	24384	40.73
413	106	0.18	4371	7.30	**460**	218	0.36	11761	19.65	**507**	329	0.55	24713	41.28
414	93	0.16	4464	7.46	**461**	250	0.42	12011	20.06	**508**	304	0.51	25017	41.79
415	88	0.15	4552	7.60	**462**	219	0.37	12230	20.43	**509**	269	0.45	25286	42.24
416	109	0.18	4661	7.79	**463**	210	0.35	12440	20.78	**510**	311	0.52	25597	42.76
417	110	0.18	4771	7.97	**464**	222	0.37	12662	21.15	**511**	318	0.53	25915	43.29
418	136	0.23	4907	8.20	**465**	239	0.40	12901	21.55	**512**	352	0.59	26267	43.88

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Table 171. Mathematics Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
513	341	0.57	26608	44.45	**560**	317	0.53	42499	70.99	**607**	192	0.32	53930	90.09
514	365	0.61	26973	45.06	**561**	299	0.50	42798	71.49	**608**	145	0.24	54075	90.33
515	355	0.59	27328	45.65	**562**	307	0.51	43105	72.01	**609**	178	0.30	54253	90.63
516	334	0.56	27662	46.21	**563**	323	0.54	43428	72.55	**610**	154	0.26	54407	90.89
517	354	0.59	28016	46.80	**564**	286	0.48	43714	73.02	**611**	164	0.27	54571	91.16
518	334	0.56	28350	47.36	**565**	294	0.49	44008	73.51	**612**	136	0.23	54707	91.39
519	330	0.55	28680	47.91	**566**	285	0.48	44293	73.99	**613**	136	0.23	54843	91.61
520	341	0.57	29021	48.48	**567**	320	0.53	44613	74.53	**614**	138	0.23	54981	91.84
521	331	0.55	29352	49.03	**568**	271	0.45	44884	74.98	**615**	152	0.25	55133	92.10
522	340	0.57	29692	49.60	**569**	276	0.46	45160	75.44	**616**	142	0.24	55275	92.34
523	323	0.54	30015	50.14	**570**	284	0.47	45444	75.91	**617**	128	0.21	55403	92.55
524	326	0.54	30341	50.68	**571**	296	0.49	45740	76.41	**618**	134	0.22	55537	92.77
525	339	0.57	30680	51.25	**572**	272	0.45	46012	76.86	**619**	122	0.20	55659	92.98
526	342	0.57	31022	51.82	**573**	296	0.49	46308	77.36	**620**	154	0.26	55813	93.23
527	333	0.56	31355	52.38	**574**	269	0.45	46577	77.81	**621**	118	0.20	55931	93.43
528	361	0.60	31716	52.98	**575**	284	0.47	46861	78.28	**622**	109	0.18	56040	93.61
529	371	0.62	32087	53.60	**576**	241	0.40	47102	78.68	**623**	96	0.16	56136	93.77
530	341	0.57	32428	54.17	**577**	286	0.48	47388	79.16	**624**	105	0.18	56241	93.95
531	342	0.57	32770	54.74	**578**	259	0.43	47647	79.59	**625**	89	0.15	56330	94.10
532	336	0.56	33106	55.30	**579**	286	0.48	47933	80.07	**626**	104	0.17	56434	94.27
533	344	0.57	33450	55.88	**580**	241	0.40	48174	80.47	**627**	108	0.18	56542	94.45
534	322	0.54	33772	56.42	**581**	260	0.43	48434	80.91	**628**	101	0.17	56643	94.62
535	372	0.62	34144	57.04	**582**	263	0.44	48697	81.35	**629**	98	0.16	56741	94.78
536	358	0.60	34502	57.63	**583**	270	0.45	48967	81.80	**630**	93	0.16	56834	94.94
537	365	0.61	34867	58.24	**584**	283	0.47	49250	82.27	**631**	98	0.16	56932	95.10
538	345	0.58	35212	58.82	**585**	229	0.38	49479	82.65	**632**	105	0.18	57037	95.28
539	354	0.59	35566	59.41	**586**	249	0.42	49728	83.07	**633**	86	0.14	57123	95.42
540	368	0.61	35934	60.03	**587**	235	0.39	49963	83.46	**634**	74	0.12	57197	95.55
541	336	0.56	36270	60.59	**588**	213	0.36	50176	83.82	**635**	83	0.14	57280	95.69
542	326	0.54	36596	61.13	**589**	240	0.40	50416	84.22	**636**	79	0.13	57359	95.82
543	336	0.56	36932	61.69	**590**	203	0.34	50619	84.56	**637**	100	0.17	57459	95.98
544	352	0.59	37284	62.28	**591**	226	0.38	50845	84.94	**638**	64	0.11	57523	96.09
545	326	0.54	37610	62.83	**592**	220	0.37	51065	85.30	**639**	64	0.11	57587	96.20
546	357	0.60	37967	63.42	**593**	208	0.35	51273	85.65	**640**	71	0.12	57658	96.32
547	337	0.56	38304	63.99	**594**	185	0.31	51458	85.96	**641**	68	0.11	57726	96.43
548	336	0.56	38640	64.55	**595**	214	0.36	51672	86.32	**642**	64	0.11	57790	96.54
549	330	0.55	38970	65.10	**596**	210	0.35	51882	86.67	**643**	72	0.12	57862	96.66
550	328	0.55	39298	65.65	**597**	216	0.36	52098	87.03	**644**	61	0.10	57923	96.76
551	313	0.52	39611	66.17	**598**	199	0.33	52297	87.36	**645**	70	0.12	57993	96.88
552	325	0.54	39936	66.71	**599**	188	0.31	52485	87.68	**646**	67	0.11	58060	96.99
553	323	0.54	40259	67.25	**600**	199	0.33	52684	88.01	**647**	46	0.08	58106	97.06
554	344	0.57	40603	67.83	**601**	206	0.34	52890	88.35	**648**	55	0.09	58161	97.16
555	319	0.53	40922	68.36	**602**	177	0.30	53067	88.65	**649**	38	0.06	58199	97.22
556	305	0.51	41227	68.87	**603**	155	0.26	53222	88.91	**650**	51	0.09	58250	97.31
557	308	0.51	41535	69.38	**604**	172	0.29	53394	89.19	**651**	51	0.09	58301	97.39
558	322	0.54	41857	69.92	**605**	166	0.28	53560	89.47	**652**	45	0.08	58346	97.47
559	325	0.54	42182	70.46	**606**	178	0.30	53738	89.77	**653**	59	0.10	58405	97.56

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Table 171. Mathematics Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
654	54	0.09	58459	97.65	**701**	9	0.02	59539	99.46	**764**	2	0.00	59775	99.85
655	40	0.07	58499	97.72	**702**	9	0.02	59548	99.47	**765**	3	0.01	59778	99.86
656	48	0.08	58547	97.80	**703**	16	0.03	59564	99.50	**766**	4	0.01	59782	99.86
657	27	0.05	58574	97.85	**704**	14	0.02	59578	99.52	**768**	4	0.01	59786	99.87
658	48	0.08	58622	97.93	**705**	4	0.01	59582	99.53	**770**	5	0.01	59791	99.88
659	50	0.08	58672	98.01	**706**	13	0.02	59595	99.55	**771**	7	0.01	59798	99.89
660	48	0.08	58720	98.09	**707**	15	0.03	59610	99.58	**775**	6	0.01	59804	99.90
661	35	0.06	58755	98.15	**708**	13	0.02	59623	99.60	**777**	2	0.00	59806	99.90
662	37	0.06	58792	98.21	**709**	8	0.01	59631	99.61	**778**	15	0.03	59821	99.93
663	38	0.06	58830	98.27	**710**	3	0.01	59634	99.62	**790**	12	0.02	59833	99.95
664	24	0.04	58854	98.31	**711**	8	0.01	59642	99.63	**800**	30	0.05	59863	100
665	27	0.05	58881	98.36	**712**	4	0.01	59646	99.64					
666	24	0.04	58905	98.40	**713**	6	0.01	59652	99.65					
667	27	0.05	58932	98.44	**714**	7	0.01	59659	99.66					
668	33	0.06	58965	98.50	**715**	4	0.01	59663	99.67					
669	23	0.04	58988	98.54	**716**	5	0.01	59668	99.67					
670	32	0.05	59020	98.59	**718**	4	0.01	59672	99.68					
671	23	0.04	59043	98.63	**719**	1	0.00	59673	99.68					
672	29	0.05	59072	98.68	**720**	3	0.01	59676	99.69					
673	29	0.05	59101	98.73	**721**	5	0.01	59681	99.70					
674	20	0.03	59121	98.76	**722**	1	0.00	59682	99.70					
675	26	0.04	59147	98.80	**723**	1	0.00	59683	99.70					
676	18	0.03	59165	98.83	**724**	3	0.01	59686	99.70					
677	22	0.04	59187	98.87	**725**	4	0.01	59690	99.71					
678	18	0.03	59205	98.90	**726**	5	0.01	59695	99.72					
679	20	0.03	59225	98.93	**727**	8	0.01	59703	99.73					
680	20	0.03	59245	98.97	**728**	12	0.02	59715	99.75					
681	21	0.04	59266	99.00	**729**	6	0.01	59721	99.76					
682	18	0.03	59284	99.03	**730**	1	0.00	59722	99.76					
683	11	0.02	59295	99.05	**731**	1	0.00	59723	99.77					
684	17	0.03	59312	99.08	**732**	4	0.01	59727	99.77					
685	16	0.03	59328	99.11	**733**	2	0.00	59729	99.78					
686	29	0.05	59357	99.15	**734**	1	0.00	59730	99.78					
687	11	0.02	59368	99.17	**735**	4	0.01	59734	99.78					
688	16	0.03	59384	99.20	**736**	4	0.01	59738	99.79					
689	9	0.02	59393	99.21	**738**	1	0.00	59739	99.79					
690	23	0.04	59416	99.25	**739**	2	0.00	59741	99.80					
691	8	0.01	59424	99.27	**741**	8	0.01	59749	99.81					
692	14	0.02	59438	99.29	**742**	1	0.00	59750	99.81					
693	16	0.03	59454	99.32	**743**	3	0.01	59753	99.82					
694	11	0.02	59465	99.34	**745**	7	0.01	59760	99.83					
695	24	0.04	59489	99.38	**746**	5	0.01	59765	99.84					
696	10	0.02	59499	99.39	**754**	1	0.00	59766	99.84					
697	12	0.02	59511	99.41	**755**	2	0.00	59768	99.84					
698	4	0.01	59515	99.42	**756**	1	0.00	59769	99.84					
699	7	0.01	59522	99.43	**758**	3	0.01	59772	99.85					
700	8	0.01	59530	99.44	**761**	1	0.00	59773	99.85					

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Table 172. Science Grade 5 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	311	0.52	311	0.52	**347**	20	0.03	955	1.59	**394**	87	0.14	3504	5.84
301	8	0.01	319	0.53	**348**	33	0.05	988	1.65	**395**	100	0.17	3604	6.00
302	3	0.00	322	0.54	**349**	34	0.06	1022	1.70	**396**	87	0.14	3691	6.15
303	6	0.01	328	0.55	**350**	29	0.05	1051	1.75	**397**	97	0.16	3788	6.31
304	9	0.01	337	0.56	**351**	32	0.05	1083	1.80	**398**	94	0.16	3882	6.47
305	7	0.01	344	0.57	**352**	31	0.05	1114	1.86	**399**	104	0.17	3986	6.64
306	5	0.01	349	0.58	**353**	27	0.04	1141	1.90	**400**	91	0.15	4077	6.79
307	5	0.01	354	0.59	**354**	51	0.08	1192	1.99	**401**	103	0.17	4180	6.96
308	6	0.01	360	0.60	**355**	34	0.06	1226	2.04	**402**	98	0.16	4278	7.12
309	7	0.01	367	0.61	**356**	33	0.05	1259	2.10	**403**	108	0.18	4386	7.30
310	7	0.01	374	0.62	**357**	27	0.04	1286	2.14	**404**	92	0.15	4478	7.46
311	9	0.01	383	0.64	**358**	26	0.04	1312	2.19	**405**	133	0.22	4611	7.68
312	16	0.03	399	0.66	**359**	32	0.05	1344	2.24	**406**	133	0.22	4744	7.90
313	7	0.01	406	0.68	**360**	36	0.06	1380	2.30	**407**	140	0.23	4884	8.13
314	12	0.02	418	0.70	**361**	39	0.06	1419	2.36	**408**	102	0.17	4986	8.30
315	5	0.01	423	0.70	**362**	44	0.07	1463	2.44	**409**	132	0.22	5118	8.52
316	10	0.02	433	0.72	**363**	36	0.06	1499	2.50	**410**	161	0.27	5279	8.79
317	17	0.03	450	0.75	**364**	44	0.07	1543	2.57	**411**	121	0.20	5400	8.99
318	12	0.02	462	0.77	**365**	54	0.09	1597	2.66	**412**	121	0.20	5521	9.20
319	10	0.02	472	0.79	**366**	50	0.08	1647	2.74	**413**	134	0.22	5655	9.42
320	5	0.01	477	0.79	**367**	38	0.06	1685	2.81	**414**	135	0.22	5790	9.64
321	7	0.01	484	0.81	**368**	56	0.09	1741	2.90	**415**	148	0.25	5938	9.89
322	9	0.01	493	0.82	**369**	37	0.06	1778	2.96	**416**	142	0.24	6080	10.13
323	12	0.02	505	0.84	**370**	51	0.08	1829	3.05	**417**	141	0.23	6221	10.36
324	17	0.03	522	0.87	**371**	42	0.07	1871	3.12	**418**	166	0.28	6387	10.64
325	15	0.02	537	0.89	**372**	48	0.08	1919	3.20	**419**	168	0.28	6555	10.92
326	14	0.02	551	0.92	**373**	58	0.10	1977	3.29	**420**	155	0.26	6710	11.18
327	12	0.02	563	0.94	**374**	48	0.08	2025	3.37	**421**	145	0.24	6855	11.42
328	5	0.01	568	0.95	**375**	47	0.08	2072	3.45	**422**	168	0.28	7023	11.70
329	12	0.02	580	0.97	**376**	52	0.09	2124	3.54	**423**	183	0.30	7206	12.00
330	25	0.04	605	1.01	**377**	57	0.09	2181	3.63	**424**	162	0.27	7368	12.27
331	12	0.02	617	1.03	**378**	51	0.08	2232	3.72	**425**	196	0.33	7564	12.60
332	16	0.03	633	1.05	**379**	58	0.10	2290	3.81	**426**	175	0.29	7739	12.89
333	20	0.03	653	1.09	**380**	65	0.11	2355	3.92	**427**	185	0.31	7924	13.20
334	19	0.03	672	1.12	**381**	59	0.10	2414	4.02	**428**	197	0.33	8121	13.53
335	16	0.03	688	1.15	**382**	68	0.11	2482	4.13	**429**	212	0.35	8333	13.88
336	25	0.04	713	1.19	**383**	76	0.13	2558	4.26	**430**	164	0.27	8497	14.15
337	22	0.04	735	1.22	**384**	74	0.12	2632	4.38	**431**	189	0.31	8686	14.47
338	27	0.04	762	1.27	**385**	68	0.11	2700	4.50	**432**	202	0.34	8888	14.80
339	21	0.03	783	1.30	**386**	94	0.16	2794	4.65	**433**	210	0.35	9098	15.15
340	15	0.02	798	1.33	**387**	80	0.13	2874	4.79	**434**	204	0.34	9302	15.49
341	15	0.02	813	1.35	**388**	87	0.14	2961	4.93	**435**	185	0.31	9487	15.80
342	28	0.05	841	1.40	**389**	80	0.13	3041	5.06	**436**	229	0.38	9716	16.18
343	21	0.03	862	1.44	**390**	84	0.14	3125	5.20	**437**	207	0.34	9923	16.53
344	20	0.03	882	1.47	**391**	98	0.16	3223	5.37	**438**	196	0.33	10119	16.85
345	30	0.05	912	1.52	**392**	93	0.15	3316	5.52	**439**	225	0.37	10344	17.23
346	23	0.04	935	1.56	**393**	101	0.17	3417	5.69	**440**	214	0.36	10558	17.58

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Table 172. Science Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
441	248	0.41	10806	18.00	**488**	341	0.57	24721	41.17	**535**	353	0.59	42306	70.46
442	232	0.39	11038	18.38	**489**	351	0.58	25072	41.76	**536**	358	0.60	42664	71.06
443	211	0.35	11249	18.73	**490**	343	0.57	25415	42.33	**537**	331	0.55	42995	71.61
444	232	0.39	11481	19.12	**491**	335	0.56	25750	42.89	**538**	345	0.57	43340	72.18
445	252	0.42	11733	19.54	**492**	385	0.64	26135	43.53	**539**	340	0.57	43680	72.75
446	232	0.39	11965	19.93	**493**	376	0.63	26511	44.15	**540**	340	0.57	44020	73.31
447	237	0.39	12202	20.32	**494**	371	0.62	26882	44.77	**541**	346	0.58	44366	73.89
448	250	0.42	12452	20.74	**495**	380	0.63	27262	45.40	**542**	352	0.59	44718	74.48
449	280	0.47	12732	21.20	**496**	405	0.67	27667	46.08	**543**	350	0.58	45068	75.06
450	256	0.43	12988	21.63	**497**	375	0.62	28042	46.70	**544**	371	0.62	45439	75.68
451	276	0.46	13264	22.09	**498**	425	0.71	28467	47.41	**545**	323	0.54	45762	76.22
452	267	0.44	13531	22.54	**499**	375	0.62	28842	48.04	**546**	316	0.53	46078	76.74
453	268	0.45	13799	22.98	**500**	389	0.65	29231	48.68	**547**	303	0.50	46381	77.25
454	284	0.47	14083	23.45	**501**	377	0.63	29608	49.31	**548**	308	0.51	46689	77.76
455	274	0.46	14357	23.91	**502**	372	0.62	29980	49.93	**549**	347	0.58	47036	78.34
456	288	0.48	14645	24.39	**503**	395	0.66	30375	50.59	**550**	302	0.50	47338	78.84
457	278	0.46	14923	24.85	**504**	349	0.58	30724	51.17	**551**	313	0.52	47651	79.36
458	278	0.46	15201	25.32	**505**	386	0.64	31110	51.81	**552**	318	0.53	47969	79.89
459	274	0.46	15475	25.77	**506**	400	0.67	31510	52.48	**553**	296	0.49	48265	80.38
460	275	0.46	15750	26.23	**507**	401	0.67	31911	53.15	**554**	290	0.48	48555	80.87
461	319	0.53	16069	26.76	**508**	375	0.62	32286	53.77	**555**	290	0.48	48845	81.35
462	294	0.49	16363	27.25	**509**	357	0.59	32643	54.37	**556**	288	0.48	49133	81.83
463	304	0.51	16667	27.76	**510**	377	0.63	33020	54.99	**557**	296	0.49	49429	82.32
464	288	0.48	16955	28.24	**511**	363	0.60	33383	55.60	**558**	300	0.50	49729	82.82
465	290	0.48	17245	28.72	**512**	398	0.66	33781	56.26	**559**	286	0.48	50015	83.30
466	302	0.50	17547	29.22	**513**	353	0.59	34134	56.85	**560**	262	0.44	50277	83.73
467	285	0.47	17832	29.70	**514**	357	0.59	34491	57.44	**561**	287	0.48	50564	84.21
468	298	0.50	18130	30.20	**515**	402	0.67	34893	58.11	**562**	268	0.45	50832	84.66
469	294	0.49	18424	30.68	**516**	396	0.66	35289	58.77	**563**	245	0.41	51077	85.07
470	327	0.54	18751	31.23	**517**	370	0.62	35659	59.39	**564**	252	0.42	51329	85.49
471	312	0.52	19063	31.75	**518**	365	0.61	36024	60.00	**565**	269	0.45	51598	85.94
472	307	0.51	19370	32.26	**519**	386	0.64	36410	60.64	**566**	252	0.42	51850	86.35
473	332	0.55	19702	32.81	**520**	366	0.61	36776	61.25	**567**	253	0.42	52103	86.78
474	302	0.50	20004	33.32	**521**	384	0.64	37160	61.89	**568**	232	0.39	52335	87.16
475	307	0.51	20311	33.83	**522**	366	0.61	37526	62.50	**569**	241	0.40	52576	87.56
476	316	0.53	20627	34.35	**523**	365	0.61	37891	63.11	**570**	230	0.38	52806	87.95
477	330	0.55	20957	34.90	**524**	378	0.63	38269	63.74	**571**	213	0.35	53019	88.30
478	326	0.54	21283	35.45	**525**	364	0.61	38633	64.34	**572**	191	0.32	53210	88.62
479	325	0.54	21608	35.99	**526**	360	0.60	38993	64.94	**573**	208	0.35	53418	88.97
480	332	0.55	21940	36.54	**527**	380	0.63	39373	65.57	**574**	217	0.36	53635	89.33
481	348	0.58	22288	37.12	**528**	366	0.61	39739	66.18	**575**	199	0.33	53834	89.66
482	350	0.58	22638	37.70	**529**	396	0.66	40135	66.84	**576**	212	0.35	54046	90.01
483	358	0.60	22996	38.30	**530**	377	0.63	40512	67.47	**577**	206	0.34	54252	90.36
484	330	0.55	23326	38.85	**531**	375	0.62	40887	68.10	**578**	197	0.33	54449	90.68
485	339	0.56	23665	39.41	**532**	373	0.62	41260	68.72	**579**	201	0.33	54650	91.02
486	360	0.60	24025	40.01	**533**	364	0.61	41624	69.32	**580**	144	0.24	54794	91.26
487	355	0.59	24380	40.60	**534**	329	0.55	41953	69.87	**581**	168	0.28	54962	91.54

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Table 172. Science Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
582	182	0.30	55144	91.84	**629**	29	0.05	59467	99.04	**677**	2	0.00	60005	99.94
583	162	0.27	55306	92.11	**630**	33	0.05	59500	99.10	**678**	1	0.00	60006	99.94
584	179	0.30	55485	92.41	**631**	38	0.06	59538	99.16	**679**	3	0.00	60009	99.94
585	168	0.28	55653	92.69	**632**	33	0.05	59571	99.21	**680**	3	0.00	60012	99.95
586	180	0.30	55833	92.99	**633**	22	0.04	59593	99.25	**681**	2	0.00	60014	99.95
587	168	0.28	56001	93.27	**634**	26	0.04	59619	99.29	**682**	1	0.00	60015	99.95
588	168	0.28	56169	93.55	**635**	25	0.04	59644	99.34	**683**	1	0.00	60016	99.96
589	160	0.27	56329	93.81	**636**	20	0.03	59664	99.37	**684**	1	0.00	60017	99.96
590	154	0.26	56483	94.07	**637**	22	0.04	59686	99.41	**686**	1	0.00	60018	99.96
591	135	0.22	56618	94.30	**638**	12	0.02	59698	99.43	**687**	1	0.00	60019	99.96
592	129	0.21	56747	94.51	**639**	16	0.03	59714	99.45	**688**	2	0.00	60021	99.96
593	109	0.18	56856	94.69	**640**	16	0.03	59730	99.48	**689**	1	0.00	60022	99.97
594	99	0.16	56955	94.86	**641**	17	0.03	59747	99.51	**690**	2	0.00	60024	99.97
595	108	0.18	57063	95.04	**642**	10	0.02	59757	99.52	**691**	1	0.00	60025	99.97
596	128	0.21	57191	95.25	**643**	23	0.04	59780	99.56	**692**	2	0.00	60027	99.97
597	115	0.19	57306	95.44	**644**	11	0.02	59791	99.58	**698**	2	0.00	60029	99.98
598	120	0.20	57426	95.64	**645**	9	0.01	59800	99.60	**699**	1	0.00	60030	99.98
599	98	0.16	57524	95.80	**646**	14	0.02	59814	99.62	**701**	1	0.00	60031	99.98
600	111	0.18	57635	95.99	**647**	16	0.03	59830	99.65	**703**	1	0.00	60032	99.98
601	110	0.18	57745	96.17	**648**	9	0.01	59839	99.66	**704**	1	0.00	60033	99.98
602	78	0.13	57823	96.30	**649**	12	0.02	59851	99.68	**705**	1	0.00	60034	99.99
603	96	0.16	57919	96.46	**650**	10	0.02	59861	99.70	**709**	1	0.00	60035	99.99
604	101	0.17	58020	96.63	**651**	7	0.01	59868	99.71	**714**	1	0.00	60036	99.99
605	105	0.17	58125	96.81	**652**	7	0.01	59875	99.72	**718**	1	0.00	60037	99.99
606	84	0.14	58209	96.95	**653**	4	0.01	59879	99.73	**719**	1	0.00	60038	99.99
607	101	0.17	58310	97.11	**654**	7	0.01	59886	99.74	**734**	1	0.00	60039	99.99
608	81	0.13	58391	97.25	**655**	12	0.02	59898	99.76	**735**	1	0.00	60040	100
609	79	0.13	58470	97.38	**656**	12	0.02	59910	99.78	**746**	1	0.00	60041	100
610	84	0.14	58554	97.52	**657**	11	0.02	59921	99.80	**764**	1	0.00	60042	100
611	68	0.11	58622	97.63	**658**	9	0.01	59930	99.81	**900**	1	0.00	60043	100
612	69	0.11	58691	97.75	**659**	4	0.01	59934	99.82					
613	64	0.11	58755	97.85	**660**	5	0.01	59939	99.83					
614	60	0.10	58815	97.95	**661**	7	0.01	59946	99.84					
615	48	0.08	58863	98.03	**662**	7	0.01	59953	99.85					
616	67	0.11	58930	98.15	**663**	4	0.01	59957	99.86					
617	45	0.07	58975	98.22	**664**	6	0.01	59963	99.87					
618	52	0.09	59027	98.31	**665**	5	0.01	59968	99.88					
619	47	0.08	59074	98.39	**666**	3	0.00	59971	99.88					
620	45	0.07	59119	98.46	**667**	3	0.00	59974	99.89					
621	38	0.06	59157	98.52	**668**	5	0.01	59979	99.89					
622	56	0.09	59213	98.62	**669**	2	0.00	59981	99.90					
623	51	0.08	59264	98.70	**670**	6	0.01	59987	99.91					
624	42	0.07	59306	98.77	**671**	2	0.00	59989	99.91					
625	42	0.07	59348	98.84	**672**	2	0.00	59991	99.91					
626	26	0.04	59374	98.89	**674**	1	0.00	59992	99.92					
627	33	0.05	59407	98.94	**675**	4	0.01	59996	99.92					
628	31	0.05	59438	98.99	**676**	7	0.01	60003	99.93					

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Table 173. Reading Grade 6 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
260	254	0.43	254	0.43	**381**	1	0.00	354	0.60	**429**	9	0.02	613	1.04
306	1	0.00	255	0.43	**383**	1	0.00	355	0.60	**430**	5	0.01	618	1.05
315	1	0.00	256	0.44	**384**	4	0.01	359	0.61	**431**	9	0.02	627	1.07
317	1	0.00	257	0.44	**385**	3	0.01	362	0.62	**432**	8	0.01	635	1.08
321	1	0.00	258	0.44	**386**	1	0.00	363	0.62	**433**	15	0.03	650	1.11
324	1	0.00	259	0.44	**387**	3	0.01	366	0.62	**434**	5	0.01	655	1.11
325	2	0.00	261	0.44	**388**	1	0.00	367	0.62	**435**	13	0.02	668	1.14
330	1	0.00	262	0.45	**389**	3	0.01	370	0.63	**436**	9	0.02	677	1.15
334	1	0.00	263	0.45	**390**	4	0.01	374	0.64	**437**	12	0.02	689	1.17
336	1	0.00	264	0.45	**391**	3	0.01	377	0.64	**438**	11	0.02	700	1.19
338	1	0.00	265	0.45	**392**	8	0.01	385	0.65	**439**	12	0.02	712	1.21
339	3	0.01	268	0.46	**393**	6	0.01	391	0.66	**440**	8	0.01	720	1.22
341	1	0.00	269	0.46	**394**	2	0.00	393	0.67	**441**	12	0.02	732	1.24
342	1	0.00	270	0.46	**395**	1	0.00	394	0.67	**442**	16	0.03	748	1.27
343	2	0.00	272	0.46	**396**	3	0.01	397	0.67	**443**	13	0.02	761	1.29
344	1	0.00	273	0.46	**397**	4	0.01	401	0.68	**444**	17	0.03	778	1.32
345	2	0.00	275	0.47	**398**	8	0.01	409	0.70	**445**	11	0.02	789	1.34
346	3	0.01	278	0.47	**399**	1	0.00	410	0.70	**446**	14	0.02	803	1.37
347	3	0.01	281	0.48	**400**	4	0.01	414	0.70	**447**	14	0.02	817	1.39
349	4	0.01	285	0.48	**401**	6	0.01	420	0.71	**448**	18	0.03	835	1.42
350	3	0.01	288	0.49	**402**	3	0.01	423	0.72	**449**	14	0.02	849	1.44
351	1	0.00	289	0.49	**403**	6	0.01	429	0.73	**450**	20	0.03	869	1.48
352	1	0.00	290	0.49	**404**	4	0.01	433	0.74	**451**	21	0.04	890	1.51
353	1	0.00	291	0.49	**405**	7	0.01	440	0.75	**452**	15	0.03	905	1.54
354	2	0.00	293	0.50	**406**	3	0.01	443	0.75	**453**	20	0.03	925	1.57
356	1	0.00	294	0.50	**407**	7	0.01	450	0.77	**454**	17	0.03	942	1.60
357	1	0.00	295	0.50	**408**	9	0.02	459	0.78	**455**	25	0.04	967	1.64
358	1	0.00	296	0.50	**409**	3	0.01	462	0.79	**456**	21	0.04	988	1.68
359	4	0.01	300	0.51	**410**	8	0.01	470	0.80	**457**	16	0.03	1004	1.71
361	3	0.01	303	0.52	**411**	5	0.01	475	0.81	**458**	10	0.02	1014	1.72
363	3	0.01	306	0.52	**412**	5	0.01	480	0.82	**459**	27	0.05	1041	1.77
364	2	0.00	308	0.52	**413**	7	0.01	487	0.83	**460**	22	0.04	1063	1.81
365	4	0.01	312	0.53	**414**	8	0.01	495	0.84	**461**	25	0.04	1088	1.85
366	3	0.01	315	0.54	**415**	10	0.02	505	0.86	**462**	19	0.03	1107	1.88
367	3	0.01	318	0.54	**416**	8	0.01	513	0.87	**463**	18	0.03	1125	1.91
368	2	0.00	320	0.54	**417**	3	0.01	516	0.88	**464**	16	0.03	1141	1.94
369	5	0.01	325	0.55	**418**	4	0.01	520	0.88	**465**	25	0.04	1166	1.98
370	2	0.00	327	0.56	**419**	10	0.02	530	0.90	**466**	27	0.05	1193	2.03
371	2	0.00	329	0.56	**420**	5	0.01	535	0.91	**467**	21	0.04	1214	2.06
372	4	0.01	333	0.57	**421**	6	0.01	541	0.92	**468**	19	0.03	1233	2.10
373	2	0.00	335	0.57	**422**	9	0.02	550	0.94	**469**	25	0.04	1258	2.14
375	1	0.00	336	0.57	**423**	11	0.02	561	0.95	**470**	28	0.05	1286	2.19
376	5	0.01	341	0.58	**424**	1	0.00	562	0.96	**471**	31	0.05	1317	2.24
377	4	0.01	345	0.59	**425**	10	0.02	572	0.97	**472**	31	0.05	1348	2.29
378	3	0.01	348	0.59	**426**	10	0.02	582	0.99	**473**	31	0.05	1379	2.34
379	2	0.00	350	0.60	**427**	11	0.02	593	1.01	**474**	34	0.06	1413	2.40
380	3	0.01	353	0.60	**428**	11	0.02	604	1.03	**475**	26	0.04	1439	2.45

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Table 173. Reading Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
476	26	0.04	1465	2.49	**523**	54	0.09	3724	6.33	**570**	172	0.29	9283	15.78
477	33	0.06	1498	2.55	**524**	78	0.13	3802	6.46	**571**	184	0.31	9467	16.10
478	32	0.05	1530	2.60	**525**	86	0.15	3888	6.61	**572**	193	0.33	9660	16.42
479	37	0.06	1567	2.66	**526**	82	0.14	3970	6.75	**573**	189	0.32	9849	16.75
480	29	0.05	1596	2.71	**527**	80	0.14	4050	6.89	**574**	172	0.29	10021	17.04
481	34	0.06	1630	2.77	**528**	74	0.13	4124	7.01	**575**	174	0.30	10195	17.33
482	33	0.06	1663	2.83	**529**	85	0.14	4209	7.16	**576**	197	0.33	10392	17.67
483	27	0.05	1690	2.87	**530**	88	0.15	4297	7.31	**577**	197	0.33	10589	18.00
484	25	0.04	1715	2.92	**531**	72	0.12	4369	7.43	**578**	210	0.36	10799	18.36
485	39	0.07	1754	2.98	**532**	65	0.11	4434	7.54	**579**	236	0.40	11035	18.76
486	39	0.07	1793	3.05	**533**	99	0.17	4533	7.71	**580**	205	0.35	11240	19.11
487	43	0.07	1836	3.12	**534**	83	0.14	4616	7.85	**581**	211	0.36	11451	19.47
488	28	0.05	1864	3.17	**535**	98	0.17	4714	8.01	**582**	201	0.34	11652	19.81
489	47	0.08	1911	3.25	**536**	98	0.17	4812	8.18	**583**	213	0.36	11865	20.17
490	24	0.04	1935	3.29	**537**	89	0.15	4901	8.33	**584**	220	0.37	12085	20.55
491	43	0.07	1978	3.36	**538**	98	0.17	4999	8.50	**585**	236	0.40	12321	20.95
492	29	0.05	2007	3.41	**539**	89	0.15	5088	8.65	**586**	239	0.41	12560	21.35
493	37	0.06	2044	3.48	**540**	109	0.19	5197	8.84	**587**	260	0.44	12820	21.80
494	50	0.09	2094	3.56	**541**	76	0.13	5273	8.97	**588**	253	0.43	13073	22.23
495	37	0.06	2131	3.62	**542**	91	0.15	5364	9.12	**589**	277	0.47	13350	22.70
496	54	0.09	2185	3.71	**543**	116	0.20	5480	9.32	**590**	245	0.42	13595	23.11
497	51	0.09	2236	3.80	**544**	109	0.19	5589	9.50	**591**	262	0.45	13857	23.56
498	50	0.09	2286	3.89	**545**	109	0.19	5698	9.69	**592**	254	0.43	14111	23.99
499	43	0.07	2329	3.96	**546**	121	0.21	5819	9.89	**593**	256	0.44	14367	24.43
500	52	0.09	2381	4.05	**547**	114	0.19	5933	10.09	**594**	249	0.42	14616	24.85
501	45	0.08	2426	4.12	**548**	112	0.19	6045	10.28	**595**	274	0.47	14890	25.32
502	49	0.08	2475	4.21	**549**	105	0.18	6150	10.46	**596**	286	0.49	15176	25.80
503	48	0.08	2523	4.29	**550**	121	0.21	6271	10.66	**597**	273	0.46	15449	26.27
504	49	0.08	2572	4.37	**551**	110	0.19	6381	10.85	**598**	279	0.47	15728	26.74
505	56	0.10	2628	4.47	**552**	126	0.21	6507	11.06	**599**	281	0.48	16009	27.22
506	51	0.09	2679	4.55	**553**	132	0.22	6639	11.29	**600**	323	0.55	16332	27.77
507	46	0.08	2725	4.63	**554**	118	0.20	6757	11.49	**601**	337	0.57	16669	28.34
508	53	0.09	2778	4.72	**555**	141	0.24	6898	11.73	**602**	262	0.45	16931	28.79
509	65	0.11	2843	4.83	**556**	134	0.23	7032	11.96	**603**	322	0.55	17253	29.33
510	52	0.09	2895	4.92	**557**	134	0.23	7166	12.18	**604**	297	0.50	17550	29.84
511	62	0.11	2957	5.03	**558**	144	0.24	7310	12.43	**605**	303	0.52	17853	30.35
512	72	0.12	3029	5.15	**559**	145	0.25	7455	12.68	**606**	337	0.57	18190	30.93
513	54	0.09	3083	5.24	**560**	148	0.25	7603	12.93	**607**	345	0.59	18535	31.51
514	51	0.09	3134	5.33	**561**	169	0.29	7772	13.21	**608**	327	0.56	18862	32.07
515	54	0.09	3188	5.42	**562**	154	0.26	7926	13.48	**609**	323	0.55	19185	32.62
516	62	0.11	3250	5.53	**563**	177	0.30	8103	13.78	**610**	306	0.52	19491	33.14
517	62	0.11	3312	5.63	**564**	163	0.28	8266	14.05	**611**	339	0.58	19830	33.72
518	64	0.11	3376	5.74	**565**	152	0.26	8418	14.31	**612**	349	0.59	20179	34.31
519	68	0.12	3444	5.86	**566**	171	0.29	8589	14.60	**613**	356	0.61	20535	34.91
520	68	0.12	3512	5.97	**567**	187	0.32	8776	14.92	**614**	360	0.61	20895	35.53
521	75	0.13	3587	6.10	**568**	164	0.28	8940	15.20	**615**	341	0.58	21236	36.11
522	83	0.14	3670	6.24	**569**	171	0.29	9111	15.49	**616**	358	0.61	21594	36.71

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Table 173. Reading Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
617	408	0.69	22002	37.41	**664**	387	0.66	41299	70.22	**711**	174	0.30	54408	92.51
618	387	0.66	22389	38.07	**665**	396	0.67	41695	70.89	**712**	146	0.25	54554	92.75
619	370	0.63	22759	38.70	**666**	416	0.71	42111	71.60	**713**	138	0.23	54692	92.99
620	368	0.63	23127	39.32	**667**	407	0.69	42518	72.29	**714**	149	0.25	54841	93.24
621	402	0.68	23529	40.00	**668**	349	0.59	42867	72.88	**715**	151	0.26	54992	93.50
622	385	0.65	23914	40.66	**669**	369	0.63	43236	73.51	**716**	137	0.23	55129	93.73
623	403	0.69	24317	41.34	**670**	344	0.58	43580	74.10	**717**	135	0.23	55264	93.96
624	407	0.69	24724	42.04	**671**	344	0.58	43924	74.68	**718**	136	0.23	55400	94.19
625	375	0.64	25099	42.67	**672**	357	0.61	44281	75.29	**719**	143	0.24	55543	94.44
626	422	0.72	25521	43.39	**673**	339	0.58	44620	75.86	**720**	127	0.22	55670	94.65
627	394	0.67	25915	44.06	**674**	329	0.56	44949	76.42	**721**	132	0.22	55802	94.88
628	395	0.67	26310	44.73	**675**	354	0.60	45303	77.02	**722**	131	0.22	55933	95.10
629	389	0.66	26699	45.39	**676**	347	0.59	45650	77.61	**723**	106	0.18	56039	95.28
630	426	0.72	27125	46.12	**677**	335	0.57	45985	78.18	**724**	118	0.20	56157	95.48
631	429	0.73	27554	46.85	**678**	344	0.58	46329	78.77	**725**	114	0.19	56271	95.67
632	425	0.72	27979	47.57	**679**	354	0.60	46683	79.37	**726**	108	0.18	56379	95.86
633	419	0.71	28398	48.28	**680**	298	0.51	46981	79.88	**727**	107	0.18	56486	96.04
634	410	0.70	28808	48.98	**681**	297	0.50	47278	80.38	**728**	97	0.16	56583	96.20
635	463	0.79	29271	49.77	**682**	305	0.52	47583	80.90	**729**	91	0.15	56674	96.36
636	395	0.67	29666	50.44	**683**	344	0.58	47927	81.49	**730**	82	0.14	56756	96.50
637	422	0.72	30088	51.16	**684**	286	0.49	48213	81.97	**731**	71	0.12	56827	96.62
638	432	0.73	30520	51.89	**685**	285	0.48	48498	82.46	**732**	101	0.17	56928	96.79
639	419	0.71	30939	52.60	**686**	294	0.50	48792	82.96	**733**	86	0.15	57014	96.94
640	444	0.75	31383	53.36	**687**	302	0.51	49094	83.47	**734**	68	0.12	57082	97.05
641	398	0.68	31781	54.03	**688**	272	0.46	49366	83.93	**735**	68	0.12	57150	97.17
642	442	0.75	32223	54.79	**689**	265	0.45	49631	84.38	**736**	69	0.12	57219	97.28
643	456	0.78	32679	55.56	**690**	275	0.47	49906	84.85	**737**	68	0.12	57287	97.40
644	449	0.76	33128	56.32	**691**	269	0.46	50175	85.31	**738**	45	0.08	57332	97.48
645	420	0.71	33548	57.04	**692**	240	0.41	50415	85.72	**739**	62	0.11	57394	97.58
646	431	0.73	33979	57.77	**693**	267	0.45	50682	86.17	**740**	73	0.12	57467	97.71
647	441	0.75	34420	58.52	**694**	266	0.45	50948	86.62	**741**	53	0.09	57520	97.80
648	444	0.75	34864	59.28	**695**	228	0.39	51176	87.01	**742**	57	0.10	57577	97.89
649	386	0.66	35250	59.93	**696**	245	0.42	51421	87.43	**743**	45	0.08	57622	97.97
650	439	0.75	35689	60.68	**697**	221	0.38	51642	87.80	**744**	45	0.08	57667	98.05
651	400	0.68	36089	61.36	**698**	237	0.40	51879	88.21	**745**	47	0.08	57714	98.13
652	437	0.74	36526	62.10	**699**	225	0.38	52104	88.59	**746**	41	0.07	57755	98.20
653	410	0.70	36936	62.80	**700**	217	0.37	52321	88.96	**747**	40	0.07	57795	98.26
654	408	0.69	37344	63.49	**701**	219	0.37	52540	89.33	**748**	36	0.06	57831	98.33
655	413	0.70	37757	64.20	**702**	189	0.32	52729	89.65	**749**	42	0.07	57873	98.40
656	391	0.66	38148	64.86	**703**	208	0.35	52937	90.00	**750**	36	0.06	57909	98.46
657	379	0.64	38527	65.50	**704**	179	0.30	53116	90.31	**751**	43	0.07	57952	98.53
658	414	0.70	38941	66.21	**705**	224	0.38	53340	90.69	**752**	40	0.07	57992	98.60
659	418	0.71	39359	66.92	**706**	182	0.31	53522	91.00	**753**	37	0.06	58029	98.66
660	376	0.64	39735	67.56	**707**	203	0.35	53725	91.34	**754**	40	0.07	58069	98.73
661	395	0.67	40130	68.23	**708**	162	0.28	53887	91.62	**755**	29	0.05	58098	98.78
662	391	0.66	40521	68.89	**709**	164	0.28	54051	91.90	**756**	39	0.07	58137	98.85
663	391	0.66	40912	69.56	**710**	183	0.31	54234	92.21	**757**	40	0.07	58177	98.91

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Table 173. Reading Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
758	25	0.04	58202	98.96	**804**	2	0.00	58739	99.87
759	34	0.06	58236	99.01	**805**	4	0.01	58743	99.88
760	31	0.05	58267	99.07	**806**	4	0.01	58747	99.88
761	24	0.04	58291	99.11	**808**	3	0.01	58750	99.89
762	22	0.04	58313	99.14	**810**	3	0.01	58753	99.89
763	25	0.04	58338	99.19	**811**	2	0.00	58755	99.90
764	23	0.04	58361	99.23	**812**	4	0.01	58759	99.90
765	21	0.04	58382	99.26	**813**	3	0.01	58762	99.91
766	22	0.04	58404	99.30	**814**	1	0.00	58763	99.91
767	22	0.04	58426	99.34	**815**	3	0.01	58766	99.91
768	19	0.03	58445	99.37	**816**	1	0.00	58767	99.92
769	19	0.03	58464	99.40	**817**	1	0.00	58768	99.92
770	17	0.03	58481	99.43	**818**	2	0.00	58770	99.92
771	18	0.03	58499	99.46	**819**	4	0.01	58774	99.93
772	7	0.01	58506	99.47	**820**	1	0.00	58775	99.93
773	18	0.03	58524	99.50	**821**	1	0.00	58776	99.93
774	11	0.02	58535	99.52	**822**	2	0.00	58778	99.94
775	20	0.03	58555	99.56	**826**	1	0.00	58779	99.94
776	8	0.01	58563	99.57	**827**	2	0.00	58781	99.94
777	8	0.01	58571	99.58	**828**	4	0.01	58785	99.95
778	12	0.02	58583	99.60	**830**	1	0.00	58786	99.95
779	6	0.01	58589	99.61	**831**	1	0.00	58787	99.95
780	10	0.02	58599	99.63	**833**	1	0.00	58788	99.95
781	11	0.02	58610	99.65	**836**	1	0.00	58789	99.95
782	6	0.01	58616	99.66	**837**	2	0.00	58791	99.96
783	12	0.02	58628	99.68	**839**	1	0.00	58792	99.96
784	12	0.02	58640	99.70	**841**	2	0.00	58794	99.96
785	8	0.01	58648	99.71	**845**	4	0.01	58798	99.97
786	4	0.01	58652	99.72	**846**	2	0.00	58800	99.97
787	6	0.01	58658	99.73	**847**	2	0.00	58802	99.98
788	7	0.01	58665	99.74	**849**	1	0.00	58803	99.98
789	8	0.01	58673	99.76	**853**	1	0.00	58804	99.98
790	3	0.01	58676	99.76	**855**	2	0.00	58806	99.98
791	12	0.02	58688	99.78	**856**	2	0.00	58808	99.99
792	4	0.01	58692	99.79	**857**	1	0.00	58809	99.99
793	6	0.01	58698	99.80	**863**	1	0.00	58810	99.99
794	4	0.01	58702	99.81	**864**	2	0.00	58812	99.99
795	4	0.01	58706	99.81	**866**	1	0.00	58813	99.99
796	6	0.01	58712	99.82	**869**	1	0.00	58814	100
797	4	0.01	58716	99.83	**895**	1	0.00	58815	100
798	8	0.01	58724	99.84	**934**	1	0.00	58816	100
799	4	0.01	58728	99.85					
800	1	0.00	58729	99.85					
801	3	0.01	58732	99.86					
802	2	0.00	58734	99.86					
803	3	0.01	58737	99.87					

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Table 174. Writing Grade 6 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
230	16	0.03	16	0.03	**309**	2	0.00	87	0.15	**357**	9	0.02	306	0.52
231	1	0.00	17	0.03	**310**	1	0.00	88	0.15	**358**	19	0.03	325	0.55
234	1	0.00	18	0.03	**311**	1	0.00	89	0.15	**359**	11	0.02	336	0.57
239	1	0.00	19	0.03	**312**	1	0.00	90	0.15	**360**	6	0.01	342	0.58
241	1	0.00	20	0.03	**314**	3	0.01	93	0.16	**361**	6	0.01	348	0.59
243	1	0.00	21	0.04	**315**	2	0.00	95	0.16	**362**	16	0.03	364	0.62
244	1	0.00	22	0.04	**316**	2	0.00	97	0.16	**363**	12	0.02	376	0.64
245	1	0.00	23	0.04	**317**	6	0.01	103	0.18	**364**	17	0.03	393	0.67
246	2	0.00	25	0.04	**318**	2	0.00	105	0.18	**365**	12	0.02	405	0.69
249	2	0.00	27	0.05	**319**	2	0.00	107	0.18	**366**	22	0.04	427	0.73
250	2	0.00	29	0.05	**320**	3	0.01	110	0.19	**367**	19	0.03	446	0.76
251	1	0.00	30	0.05	**321**	3	0.01	113	0.19	**368**	18	0.03	464	0.79
252	2	0.00	32	0.05	**322**	1	0.00	114	0.19	**369**	21	0.04	485	0.82
254	1	0.00	33	0.06	**323**	4	0.01	118	0.20	**370**	16	0.03	501	0.85
255	1	0.00	34	0.06	**324**	2	0.00	120	0.20	**371**	19	0.03	520	0.88
259	1	0.00	35	0.06	**325**	1	0.00	121	0.21	**372**	17	0.03	537	0.91
263	1	0.00	36	0.06	**326**	2	0.00	123	0.21	**373**	23	0.04	560	0.95
264	3	0.01	39	0.07	**327**	5	0.01	128	0.22	**374**	18	0.03	578	0.98
266	1	0.00	40	0.07	**328**	4	0.01	132	0.22	**375**	17	0.03	595	1.01
269	1	0.00	41	0.07	**329**	4	0.01	136	0.23	**376**	24	0.04	619	1.05
270	1	0.00	42	0.07	**330**	4	0.01	140	0.24	**377**	28	0.05	647	1.10
271	2	0.00	44	0.07	**331**	3	0.01	143	0.24	**378**	19	0.03	666	1.13
273	2	0.00	46	0.08	**332**	4	0.01	147	0.25	**379**	24	0.04	690	1.17
275	1	0.00	47	0.08	**333**	6	0.01	153	0.26	**380**	26	0.04	716	1.22
277	1	0.00	48	0.08	**334**	1	0.00	154	0.26	**381**	23	0.04	739	1.26
279	2	0.00	50	0.08	**335**	4	0.01	158	0.27	**382**	22	0.04	761	1.29
281	1	0.00	51	0.09	**336**	3	0.01	161	0.27	**383**	26	0.04	787	1.34
282	1	0.00	52	0.09	**337**	4	0.01	165	0.28	**384**	16	0.03	803	1.36
283	1	0.00	53	0.09	**338**	2	0.00	167	0.28	**385**	25	0.04	828	1.41
284	1	0.00	54	0.09	**339**	5	0.01	172	0.29	**386**	21	0.04	849	1.44
285	1	0.00	55	0.09	**340**	5	0.01	177	0.30	**387**	37	0.06	886	1.51
287	1	0.00	56	0.10	**341**	6	0.01	183	0.31	**388**	29	0.05	915	1.55
288	1	0.00	57	0.10	**342**	3	0.01	186	0.32	**389**	29	0.05	944	1.60
289	1	0.00	58	0.10	**343**	2	0.00	188	0.32	**390**	36	0.06	980	1.67
291	2	0.00	60	0.10	**344**	7	0.01	195	0.33	**391**	37	0.06	1017	1.73
293	4	0.01	64	0.11	**345**	7	0.01	202	0.34	**392**	32	0.05	1049	1.78
294	2	0.00	66	0.11	**346**	5	0.01	207	0.35	**393**	40	0.07	1089	1.85
297	4	0.01	70	0.12	**347**	10	0.02	217	0.37	**394**	41	0.07	1130	1.92
299	3	0.01	73	0.12	**348**	6	0.01	223	0.38	**395**	46	0.08	1176	2.00
300	1	0.00	74	0.13	**349**	4	0.01	227	0.39	**396**	40	0.07	1216	2.07
301	2	0.00	76	0.13	**350**	5	0.01	232	0.39	**397**	48	0.08	1264	2.15
302	1	0.00	77	0.13	**351**	4	0.01	236	0.40	**398**	38	0.06	1302	2.21
303	1	0.00	78	0.13	**352**	7	0.01	243	0.41	**399**	41	0.07	1343	2.28
304	2	0.00	80	0.14	**353**	6	0.01	249	0.42	**400**	39	0.07	1382	2.35
305	2	0.00	82	0.14	**354**	15	0.03	264	0.45	**401**	40	0.07	1422	2.42
306	2	0.00	84	0.14	**355**	18	0.03	282	0.48	**402**	49	0.08	1471	2.50
308	1	0.00	85	0.14	**356**	15	0.03	297	0.50	**403**	40	0.07	1511	2.57

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Table 174. Writing Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
404	60	0.10	1571	2.67	**451**	170	0.29	6637	11.28	**498**	393	0.67	19437	33.02
405	46	0.08	1617	2.75	**452**	170	0.29	6807	11.57	**499**	349	0.59	19786	33.62
406	49	0.08	1666	2.83	**453**	210	0.36	7017	11.92	**500**	405	0.69	20191	34.31
407	48	0.08	1714	2.91	**454**	195	0.33	7212	12.25	**501**	398	0.68	20589	34.98
408	77	0.13	1791	3.04	**455**	194	0.33	7406	12.58	**502**	406	0.69	20995	35.67
409	55	0.09	1846	3.14	**456**	202	0.34	7608	12.93	**503**	356	0.60	21351	36.28
410	61	0.10	1907	3.24	**457**	183	0.31	7791	13.24	**504**	400	0.68	21751	36.96
411	44	0.07	1951	3.31	**458**	196	0.33	7987	13.57	**505**	400	0.68	22151	37.64
412	73	0.12	2024	3.44	**459**	209	0.36	8196	13.93	**506**	392	0.67	22543	38.30
413	62	0.11	2086	3.54	**460**	212	0.36	8408	14.29	**507**	383	0.65	22926	38.95
414	67	0.11	2153	3.66	**461**	207	0.35	8615	14.64	**508**	427	0.73	23353	39.68
415	73	0.12	2226	3.78	**462**	209	0.36	8824	14.99	**509**	403	0.68	23756	40.36
416	80	0.14	2306	3.92	**463**	209	0.36	9033	15.35	**510**	388	0.66	24144	41.02
417	92	0.16	2398	4.07	**464**	209	0.36	9242	15.70	**511**	409	0.69	24553	41.72
418	89	0.15	2487	4.23	**465**	220	0.37	9462	16.08	**512**	375	0.64	24928	42.35
419	84	0.14	2571	4.37	**466**	232	0.39	9694	16.47	**513**	365	0.62	25293	42.97
420	90	0.15	2661	4.52	**467**	255	0.43	9949	16.90	**514**	446	0.76	25739	43.73
421	87	0.15	2748	4.67	**468**	242	0.41	10191	17.32	**515**	409	0.69	26148	44.43
422	71	0.12	2819	4.79	**469**	229	0.39	10420	17.70	**516**	410	0.70	26558	45.12
423	77	0.13	2896	4.92	**470**	234	0.40	10654	18.10	**517**	426	0.72	26984	45.85
424	106	0.18	3002	5.10	**471**	274	0.47	10928	18.57	**518**	413	0.70	27397	46.55
425	97	0.16	3099	5.27	**472**	270	0.46	11198	19.03	**519**	413	0.70	27810	47.25
426	102	0.17	3201	5.44	**473**	273	0.46	11471	19.49	**520**	431	0.73	28241	47.98
427	88	0.15	3289	5.59	**474**	280	0.48	11751	19.97	**521**	428	0.73	28669	48.71
428	112	0.19	3401	5.78	**475**	254	0.43	12005	20.40	**522**	419	0.71	29088	49.42
429	122	0.21	3523	5.99	**476**	260	0.44	12265	20.84	**523**	430	0.73	29518	50.15
430	115	0.20	3638	6.18	**477**	274	0.47	12539	21.30	**524**	418	0.71	29936	50.86
431	118	0.20	3756	6.38	**478**	295	0.50	12834	21.81	**525**	415	0.71	30351	51.57
432	112	0.19	3868	6.57	**479**	259	0.44	13093	22.25	**526**	393	0.67	30744	52.24
433	125	0.21	3993	6.78	**480**	316	0.54	13409	22.78	**527**	417	0.71	31161	52.94
434	134	0.23	4127	7.01	**481**	295	0.50	13704	23.28	**528**	429	0.73	31590	53.67
435	119	0.20	4246	7.21	**482**	291	0.49	13995	23.78	**529**	402	0.68	31992	54.36
436	134	0.23	4380	7.44	**483**	290	0.49	14285	24.27	**530**	430	0.73	32422	55.09
437	131	0.22	4511	7.66	**484**	294	0.50	14579	24.77	**531**	401	0.68	32823	55.77
438	140	0.24	4651	7.90	**485**	321	0.55	14900	25.32	**532**	416	0.71	33239	56.48
439	112	0.19	4763	8.09	**486**	323	0.55	15223	25.86	**533**	432	0.73	33671	57.21
440	136	0.23	4899	8.32	**487**	313	0.53	15536	26.40	**534**	395	0.67	34066	57.88
441	160	0.27	5059	8.60	**488**	315	0.54	15851	26.93	**535**	381	0.65	34447	58.53
442	145	0.25	5204	8.84	**489**	323	0.55	16174	27.48	**536**	374	0.64	34821	59.16
443	132	0.22	5336	9.07	**490**	344	0.58	16518	28.07	**537**	392	0.67	35213	59.83
444	140	0.24	5476	9.30	**491**	327	0.56	16845	28.62	**538**	408	0.69	35621	60.52
445	145	0.25	5621	9.55	**492**	348	0.59	17193	29.21	**539**	394	0.67	36015	61.19
446	183	0.31	5804	9.86	**493**	373	0.63	17566	29.85	**540**	371	0.63	36386	61.82
447	148	0.25	5952	10.11	**494**	360	0.61	17926	30.46	**541**	436	0.74	36822	62.56
448	169	0.29	6121	10.40	**495**	385	0.65	18311	31.11	**542**	369	0.63	37191	63.19
449	180	0.31	6301	10.71	**496**	365	0.62	18676	31.73	**543**	381	0.65	37572	63.84
450	166	0.28	6467	10.99	**497**	368	0.63	19044	32.36	**544**	394	0.67	37966	64.51

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Table 174. Writing Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
545	378	0.64	38344	65.15	**592**	174	0.30	51752	87.93	**639**	41	0.07	57062	96.95
546	398	0.68	38742	65.83	**593**	161	0.27	51913	88.20	**640**	92	0.16	57154	97.11
547	387	0.66	39129	66.48	**594**	198	0.34	52111	88.54	**641**	55	0.09	57209	97.20
548	393	0.67	39522	67.15	**595**	191	0.32	52302	88.86	**642**	43	0.07	57252	97.27
549	363	0.62	39885	67.77	**596**	184	0.31	52486	89.18	**643**	41	0.07	57293	97.34
550	350	0.59	40235	68.36	**597**	183	0.31	52669	89.49	**644**	46	0.08	57339	97.42
551	380	0.65	40615	69.01	**598**	148	0.25	52817	89.74	**645**	37	0.06	57376	97.49
552	340	0.58	40955	69.59	**599**	178	0.30	52995	90.04	**646**	38	0.06	57414	97.55
553	364	0.62	41319	70.20	**600**	157	0.27	53152	90.31	**647**	38	0.06	57452	97.61
554	339	0.58	41658	70.78	**601**	136	0.23	53288	90.54	**648**	33	0.06	57485	97.67
555	353	0.60	42011	71.38	**602**	151	0.26	53439	90.80	**649**	36	0.06	57521	97.73
556	351	0.60	42362	71.98	**603**	131	0.22	53570	91.02	**650**	44	0.07	57565	97.81
557	325	0.55	42687	72.53	**604**	150	0.25	53720	91.27	**651**	33	0.06	57598	97.86
558	341	0.58	43028	73.11	**605**	136	0.23	53856	91.50	**652**	32	0.05	57630	97.92
559	329	0.56	43357	73.67	**606**	148	0.25	54004	91.76	**653**	88	0.15	57718	98.07
560	305	0.52	43662	74.18	**607**	134	0.23	54138	91.98	**654**	48	0.08	57766	98.15
561	351	0.60	44013	74.78	**608**	128	0.22	54266	92.20	**655**	30	0.05	57796	98.20
562	356	0.60	44369	75.39	**609**	150	0.25	54416	92.46	**656**	25	0.04	57821	98.24
563	303	0.51	44672	75.90	**610**	114	0.19	54530	92.65	**657**	18	0.03	57839	98.27
564	300	0.51	44972	76.41	**611**	150	0.25	54680	92.90	**658**	23	0.04	57862	98.31
565	282	0.48	45254	76.89	**612**	136	0.23	54816	93.14	**659**	25	0.04	57887	98.35
566	312	0.53	45566	77.42	**613**	116	0.20	54932	93.33	**660**	24	0.04	57911	98.39
567	315	0.54	45881	77.95	**614**	106	0.18	55038	93.51	**661**	13	0.02	57924	98.42
568	264	0.45	46145	78.40	**615**	112	0.19	55150	93.70	**662**	21	0.04	57945	98.45
569	281	0.48	46426	78.88	**616**	124	0.21	55274	93.91	**663**	33	0.06	57978	98.51
570	295	0.50	46721	79.38	**617**	125	0.21	55399	94.13	**664**	25	0.04	58003	98.55
571	265	0.45	46986	79.83	**618**	100	0.17	55499	94.30	**665**	19	0.03	58022	98.58
572	274	0.47	47260	80.30	**619**	99	0.17	55598	94.46	**666**	25	0.04	58047	98.63
573	272	0.46	47532	80.76	**620**	100	0.17	55698	94.63	**667**	19	0.03	58066	98.66
574	241	0.41	47773	81.17	**621**	94	0.16	55792	94.79	**668**	53	0.09	58119	98.75
575	259	0.44	48032	81.61	**622**	93	0.16	55885	94.95	**669**	20	0.03	58139	98.78
576	241	0.41	48273	82.02	**623**	84	0.14	55969	95.09	**670**	24	0.04	58163	98.82
577	242	0.41	48515	82.43	**624**	76	0.13	56045	95.22	**671**	10	0.02	58173	98.84
578	249	0.42	48764	82.85	**625**	67	0.11	56112	95.34	**672**	11	0.02	58184	98.86
579	230	0.39	48994	83.24	**626**	85	0.14	56197	95.48	**673**	14	0.02	58198	98.88
580	251	0.43	49245	83.67	**627**	90	0.15	56287	95.64	**674**	16	0.03	58214	98.91
581	238	0.40	49483	84.07	**628**	84	0.14	56371	95.78	**675**	10	0.02	58224	98.93
582	234	0.40	49717	84.47	**629**	104	0.18	56475	95.95	**676**	23	0.04	58247	98.97
583	238	0.40	49955	84.88	**630**	80	0.14	56555	96.09	**677**	13	0.02	58260	98.99
584	222	0.38	50177	85.25	**631**	62	0.11	56617	96.20	**678**	10	0.02	58270	99.00
585	220	0.37	50397	85.63	**632**	50	0.08	56667	96.28	**679**	20	0.03	58290	99.04
586	209	0.36	50606	85.98	**633**	65	0.11	56732	96.39	**680**	20	0.03	58310	99.07
587	210	0.36	50816	86.34	**634**	65	0.11	56797	96.50	**681**	27	0.05	58337	99.12
588	208	0.35	51024	86.69	**635**	55	0.09	56852	96.60	**682**	21	0.04	58358	99.15
589	181	0.31	51205	87.00	**636**	50	0.08	56902	96.68	**683**	12	0.02	58370	99.17
590	184	0.31	51389	87.31	**637**	72	0.12	56974	96.80	**684**	8	0.01	58378	99.19
591	189	0.32	51578	87.63	**638**	47	0.08	57021	96.88	**685**	15	0.03	58393	99.21

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Table 174. Writing Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
686	9	0.02	58402	99.23	**738**	2	0.00	58760	99.84
687	15	0.03	58417	99.25	**739**	8	0.01	58768	99.85
688	10	0.02	58427	99.27	**740**	3	0.01	58771	99.86
689	15	0.03	58442	99.30	**744**	2	0.00	58773	99.86
690	6	0.01	58448	99.31	**746**	1	0.00	58774	99.86
691	7	0.01	58455	99.32	**747**	2	0.00	58776	99.86
692	8	0.01	58463	99.33	**750**	3	0.01	58779	99.87
693	7	0.01	58470	99.34	**752**	3	0.01	58782	99.87
694	7	0.01	58477	99.36	**753**	1	0.00	58783	99.88
695	16	0.03	58493	99.38	**756**	1	0.00	58784	99.88
696	2	0.00	58495	99.39	**757**	2	0.00	58786	99.88
697	13	0.02	58508	99.41	**758**	2	0.00	58788	99.88
698	11	0.02	58519	99.43	**759**	1	0.00	58789	99.89
699	6	0.01	58525	99.44	**769**	2	0.00	58791	99.89
700	4	0.01	58529	99.44	**774**	5	0.01	58796	99.90
701	12	0.02	58541	99.46	**775**	4	0.01	58800	99.90
702	22	0.04	58563	99.50	**776**	2	0.00	58802	99.91
703	9	0.02	58572	99.52	**778**	6	0.01	58808	99.92
704	21	0.04	58593	99.55	**783**	3	0.01	58811	99.92
705	8	0.01	58601	99.57	**784**	6	0.01	58817	99.93
706	5	0.01	58606	99.58	**801**	18	0.03	58835	99.96
707	2	0.00	58608	99.58	**805**	1	0.00	58836	99.97
708	2	0.00	58610	99.58	**811**	4	0.01	58840	99.97
709	3	0.01	58613	99.59	**840**	16	0.03	58856	100
710	9	0.02	58622	99.60					
711	13	0.02	58635	99.62					
712	11	0.02	58646	99.64					
713	7	0.01	58653	99.66					
714	4	0.01	58657	99.66					
715	10	0.02	58667	99.68					
716	3	0.01	58670	99.68					
717	2	0.00	58672	99.69					
718	1	0.00	58673	99.69					
721	2	0.00	58675	99.69					
723	5	0.01	58680	99.70					
724	12	0.02	58692	99.72					
725	4	0.01	58696	99.73					
726	3	0.01	58699	99.73					
727	4	0.01	58703	99.74					
728	4	0.01	58707	99.75					
729	2	0.00	58709	99.75					
730	3	0.01	58712	99.76					
731	1	0.00	58713	99.76					
734	22	0.04	58735	99.79					
735	4	0.01	58739	99.80					
736	17	0.03	58756	99.83					
737	2	0.00	58758	99.83					

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Table 175. Mathematics Grade 6 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
240	140	0.24	140	0.24	**288**	1	0.00	296	0.50	**335**	13	0.02	711	1.21
241	3	0.01	143	0.24	**289**	4	0.01	300	0.51	**336**	13	0.02	724	1.23
242	2	0.00	145	0.25	**290**	5	0.01	305	0.52	**337**	12	0.02	736	1.25
243	3	0.01	148	0.25	**291**	4	0.01	309	0.52	**338**	11	0.02	747	1.27
244	4	0.01	152	0.26	**292**	8	0.01	317	0.54	**339**	8	0.01	755	1.28
245	2	0.00	154	0.26	**293**	7	0.01	324	0.55	**340**	14	0.02	769	1.31
246	1	0.00	155	0.26	**294**	6	0.01	330	0.56	**341**	10	0.02	779	1.32
247	3	0.01	158	0.27	**295**	8	0.01	338	0.57	**342**	12	0.02	791	1.34
248	2	0.00	160	0.27	**296**	7	0.01	345	0.59	**343**	14	0.02	805	1.37
249	3	0.01	163	0.28	**297**	5	0.01	350	0.59	**344**	7	0.01	812	1.38
250	3	0.01	166	0.28	**298**	1	0.00	351	0.60	**345**	12	0.02	824	1.40
251	1	0.00	167	0.28	**299**	9	0.02	360	0.61	**346**	10	0.02	834	1.42
252	2	0.00	169	0.29	**300**	7	0.01	367	0.62	**347**	12	0.02	846	1.44
253	1	0.00	170	0.29	**301**	9	0.02	376	0.64	**348**	24	0.04	870	1.48
254	2	0.00	172	0.29	**302**	4	0.01	380	0.65	**349**	18	0.03	888	1.51
255	2	0.00	174	0.30	**303**	9	0.02	389	0.66	**350**	14	0.02	902	1.53
256	6	0.01	180	0.31	**304**	10	0.02	399	0.68	**351**	16	0.03	918	1.56
257	3	0.01	183	0.31	**305**	13	0.02	412	0.70	**352**	12	0.02	930	1.58
258	1	0.00	184	0.31	**306**	5	0.01	417	0.71	**353**	19	0.03	949	1.61
260	2	0.00	186	0.32	**307**	10	0.02	427	0.72	**354**	22	0.04	971	1.65
261	5	0.01	191	0.32	**308**	11	0.02	438	0.74	**355**	15	0.03	986	1.67
262	4	0.01	195	0.33	**309**	6	0.01	444	0.75	**356**	22	0.04	1008	1.71
263	2	0.00	197	0.33	**310**	14	0.02	458	0.78	**357**	22	0.04	1030	1.75
264	2	0.00	199	0.34	**311**	9	0.02	467	0.79	**358**	30	0.05	1060	1.80
265	3	0.01	202	0.34	**312**	4	0.01	471	0.80	**359**	18	0.03	1078	1.83
266	1	0.00	203	0.34	**313**	9	0.02	480	0.81	**360**	20	0.03	1098	1.86
267	2	0.00	205	0.35	**314**	4	0.01	484	0.82	**361**	26	0.04	1124	1.91
268	3	0.01	208	0.35	**315**	10	0.02	494	0.84	**362**	26	0.04	1150	1.95
269	6	0.01	214	0.36	**316**	9	0.02	503	0.85	**363**	23	0.04	1173	1.99
270	2	0.00	216	0.37	**317**	12	0.02	515	0.87	**364**	21	0.04	1194	2.03
271	2	0.00	218	0.37	**318**	3	0.01	518	0.88	**365**	23	0.04	1217	2.07
272	6	0.01	224	0.38	**319**	14	0.02	532	0.90	**366**	30	0.05	1247	2.12
273	2	0.00	226	0.38	**320**	14	0.02	546	0.93	**367**	25	0.04	1272	2.16
274	2	0.00	228	0.39	**321**	8	0.01	554	0.94	**368**	20	0.03	1292	2.19
275	6	0.01	234	0.40	**322**	7	0.01	561	0.95	**369**	28	0.05	1320	2.24
276	5	0.01	239	0.41	**323**	9	0.02	570	0.97	**370**	27	0.05	1347	2.29
277	7	0.01	246	0.42	**324**	12	0.02	582	0.99	**371**	25	0.04	1372	2.33
278	4	0.01	250	0.42	**325**	15	0.03	597	1.01	**372**	35	0.06	1407	2.39
279	5	0.01	255	0.43	**326**	5	0.01	602	1.02	**373**	26	0.04	1433	2.43
280	3	0.01	258	0.44	**327**	8	0.01	610	1.04	**374**	17	0.03	1450	2.46
281	5	0.01	263	0.45	**328**	7	0.01	617	1.05	**375**	24	0.04	1474	2.50
282	6	0.01	269	0.46	**329**	14	0.02	631	1.07	**376**	35	0.06	1509	2.56
283	9	0.02	278	0.47	**330**	14	0.02	645	1.10	**377**	33	0.06	1542	2.62
284	3	0.01	281	0.48	**331**	12	0.02	657	1.12	**378**	40	0.07	1582	2.69
285	6	0.01	287	0.49	**332**	12	0.02	669	1.14	**379**	29	0.05	1611	2.73
286	6	0.01	293	0.50	**333**	14	0.02	683	1.16	**380**	37	0.06	1648	2.80
287	2	0.00	295	0.50	**334**	15	0.03	698	1.18	**381**	38	0.06	1686	2.86

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Table 175. Mathematics Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
382	28	0.05	1714	2.91	**429**	96	0.16	4558	7.74	**476**	199	0.34	11307	19.20
383	28	0.05	1742	2.96	**430**	88	0.15	4646	7.89	**477**	184	0.31	11491	19.51
384	30	0.05	1772	3.01	**431**	97	0.16	4743	8.05	**478**	210	0.36	11701	19.86
385	44	0.07	1816	3.08	**432**	92	0.16	4835	8.21	**479**	216	0.37	11917	20.23
386	35	0.06	1851	3.14	**433**	115	0.20	4950	8.40	**480**	219	0.37	12136	20.60
387	40	0.07	1891	3.21	**434**	96	0.16	5046	8.57	**481**	229	0.39	12365	20.99
388	41	0.07	1932	3.28	**435**	107	0.18	5153	8.75	**482**	204	0.35	12569	21.34
389	59	0.10	1991	3.38	**436**	99	0.17	5252	8.92	**483**	229	0.39	12798	21.73
390	36	0.06	2027	3.44	**437**	107	0.18	5359	9.10	**484**	224	0.38	13022	22.11
391	50	0.08	2077	3.53	**438**	111	0.19	5470	9.29	**485**	258	0.44	13280	22.55
392	45	0.08	2122	3.60	**439**	88	0.15	5558	9.44	**486**	254	0.43	13534	22.98
393	35	0.06	2157	3.66	**440**	102	0.17	5660	9.61	**487**	223	0.38	13757	23.35
394	37	0.06	2194	3.72	**441**	123	0.21	5783	9.82	**488**	220	0.37	13977	23.73
395	44	0.07	2238	3.80	**442**	121	0.21	5904	10.02	**489**	227	0.39	14204	24.11
396	56	0.10	2294	3.89	**443**	133	0.23	6037	10.25	**490**	234	0.40	14438	24.51
397	52	0.09	2346	3.98	**444**	153	0.26	6190	10.51	**491**	229	0.39	14667	24.90
398	47	0.08	2393	4.06	**445**	127	0.22	6317	10.72	**492**	271	0.46	14938	25.36
399	50	0.08	2443	4.15	**446**	120	0.20	6437	10.93	**493**	237	0.40	15175	25.76
400	66	0.11	2509	4.26	**447**	117	0.20	6554	11.13	**494**	259	0.44	15434	26.20
401	59	0.10	2568	4.36	**448**	141	0.24	6695	11.37	**495**	280	0.48	15714	26.68
402	51	0.09	2619	4.45	**449**	117	0.20	6812	11.56	**496**	238	0.40	15952	27.08
403	61	0.10	2680	4.55	**450**	141	0.24	6953	11.80	**497**	259	0.44	16211	27.52
404	68	0.12	2748	4.67	**451**	150	0.25	7103	12.06	**498**	236	0.40	16447	27.92
405	58	0.10	2806	4.76	**452**	138	0.23	7241	12.29	**499**	249	0.42	16696	28.34
406	57	0.10	2863	4.86	**453**	143	0.24	7384	12.54	**500**	242	0.41	16938	28.76
407	61	0.10	2924	4.96	**454**	140	0.24	7524	12.77	**501**	240	0.41	17178	29.16
408	57	0.10	2981	5.06	**455**	156	0.26	7680	13.04	**502**	283	0.48	17461	29.64
409	57	0.10	3038	5.16	**456**	135	0.23	7815	13.27	**503**	267	0.45	17728	30.10
410	68	0.12	3106	5.27	**457**	164	0.28	7979	13.55	**504**	276	0.47	18004	30.56
411	55	0.09	3161	5.37	**458**	128	0.22	8107	13.76	**505**	304	0.52	18308	31.08
412	70	0.12	3231	5.49	**459**	139	0.24	8246	14.00	**506**	304	0.52	18612	31.60
413	52	0.09	3283	5.57	**460**	160	0.27	8406	14.27	**507**	318	0.54	18930	32.14
414	65	0.11	3348	5.68	**461**	166	0.28	8572	14.55	**508**	300	0.51	19230	32.65
415	78	0.13	3426	5.82	**462**	183	0.31	8755	14.86	**509**	275	0.47	19505	33.11
416	57	0.10	3483	5.91	**463**	160	0.27	8915	15.13	**510**	258	0.44	19763	33.55
417	80	0.14	3563	6.05	**464**	166	0.28	9081	15.42	**511**	290	0.49	20053	34.04
418	74	0.13	3637	6.17	**465**	146	0.25	9227	15.66	**512**	295	0.50	20348	34.54
419	58	0.10	3695	6.27	**466**	160	0.27	9387	15.94	**513**	298	0.51	20646	35.05
420	73	0.12	3768	6.40	**467**	191	0.32	9578	16.26	**514**	311	0.53	20957	35.58
421	79	0.13	3847	6.53	**468**	170	0.29	9748	16.55	**515**	275	0.47	21232	36.05
422	92	0.16	3939	6.69	**469**	193	0.33	9941	16.88	**516**	304	0.52	21536	36.56
423	71	0.12	4010	6.81	**470**	177	0.30	10118	17.18	**517**	299	0.51	21835	37.07
424	86	0.15	4096	6.95	**471**	204	0.35	10322	17.52	**518**	281	0.48	22116	37.55
425	83	0.14	4179	7.09	**472**	200	0.34	10522	17.86	**519**	307	0.52	22423	38.07
426	97	0.16	4276	7.26	**473**	209	0.35	10731	18.22	**520**	301	0.51	22724	38.58
427	87	0.15	4363	7.41	**474**	168	0.29	10899	18.50	**521**	308	0.52	23032	39.10
428	99	0.17	4462	7.58	**475**	209	0.35	11108	18.86	**522**	310	0.53	23342	39.63

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Table 175. Mathematics Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
523	335	0.57	23677	40.20	**570**	312	0.53	38932	66.09	**617**	198	0.34	51148	86.83
524	276	0.47	23953	40.66	**571**	315	0.53	39247	66.63	**618**	174	0.30	51322	87.13
525	330	0.56	24283	41.22	**572**	309	0.52	39556	67.15	**619**	177	0.30	51499	87.43
526	310	0.53	24593	41.75	**573**	336	0.57	39892	67.72	**620**	197	0.33	51696	87.76
527	322	0.55	24915	42.30	**574**	295	0.50	40187	68.22	**621**	195	0.33	51891	88.09
528	356	0.60	25271	42.90	**575**	308	0.52	40495	68.75	**622**	200	0.34	52091	88.43
529	322	0.55	25593	43.45	**576**	315	0.53	40810	69.28	**623**	173	0.29	52264	88.73
530	335	0.57	25928	44.02	**577**	303	0.51	41113	69.80	**624**	178	0.30	52442	89.03
531	328	0.56	26256	44.57	**578**	297	0.50	41410	70.30	**625**	173	0.29	52615	89.32
532	334	0.57	26590	45.14	**579**	297	0.50	41707	70.81	**626**	166	0.28	52781	89.61
533	319	0.54	26909	45.68	**580**	248	0.42	41955	71.23	**627**	153	0.26	52934	89.86
534	329	0.56	27238	46.24	**581**	292	0.50	42247	71.72	**628**	170	0.29	53104	90.15
535	327	0.56	27565	46.80	**582**	266	0.45	42513	72.17	**629**	181	0.31	53285	90.46
536	345	0.59	27910	47.38	**583**	273	0.46	42786	72.64	**630**	163	0.28	53448	90.74
537	362	0.61	28272	48.00	**584**	268	0.45	43054	73.09	**631**	144	0.24	53592	90.98
538	291	0.49	28563	48.49	**585**	283	0.48	43337	73.57	**632**	159	0.27	53751	91.25
539	328	0.56	28891	49.05	**586**	282	0.48	43619	74.05	**633**	146	0.25	53897	91.50
540	325	0.55	29216	49.60	**587**	283	0.48	43902	74.53	**634**	160	0.27	54057	91.77
541	347	0.59	29563	50.19	**588**	264	0.45	44166	74.98	**635**	147	0.25	54204	92.02
542	326	0.55	29889	50.74	**589**	254	0.43	44420	75.41	**636**	137	0.23	54341	92.25
543	318	0.54	30207	51.28	**590**	268	0.45	44688	75.87	**637**	143	0.24	54484	92.50
544	327	0.56	30534	51.84	**591**	299	0.51	44987	76.37	**638**	126	0.21	54610	92.71
545	343	0.58	30877	52.42	**592**	277	0.47	45264	76.84	**639**	142	0.24	54752	92.95
546	324	0.55	31201	52.97	**593**	254	0.43	45518	77.27	**640**	129	0.22	54881	93.17
547	358	0.61	31559	53.58	**594**	255	0.43	45773	77.71	**641**	134	0.23	55015	93.40
548	315	0.53	31874	54.11	**595**	252	0.43	46025	78.14	**642**	118	0.20	55133	93.60
549	306	0.52	32180	54.63	**596**	262	0.44	46287	78.58	**643**	118	0.20	55251	93.80
550	307	0.52	32487	55.15	**597**	259	0.44	46546	79.02	**644**	99	0.17	55350	93.97
551	334	0.57	32821	55.72	**598**	250	0.42	46796	79.44	**645**	114	0.19	55464	94.16
552	323	0.55	33144	56.27	**599**	270	0.46	47066	79.90	**646**	102	0.17	55566	94.33
553	336	0.57	33480	56.84	**600**	236	0.40	47302	80.30	**647**	88	0.15	55654	94.48
554	293	0.50	33773	57.34	**601**	209	0.35	47511	80.66	**648**	119	0.20	55773	94.68
555	333	0.57	34106	57.90	**602**	254	0.43	47765	81.09	**649**	96	0.16	55869	94.85
556	309	0.52	34415	58.43	**603**	277	0.47	48042	81.56	**650**	104	0.18	55973	95.02
557	316	0.54	34731	58.96	**604**	224	0.38	48266	81.94	**651**	100	0.17	56073	95.19
558	330	0.56	35061	59.52	**605**	246	0.42	48512	82.36	**652**	95	0.16	56168	95.36
559	351	0.60	35412	60.12	**606**	261	0.44	48773	82.80	**653**	105	0.18	56273	95.53
560	327	0.56	35739	60.67	**607**	236	0.40	49009	83.20	**654**	84	0.14	56357	95.68
561	328	0.56	36067	61.23	**608**	212	0.36	49221	83.56	**655**	75	0.13	56432	95.80
562	303	0.51	36370	61.74	**609**	251	0.43	49472	83.99	**656**	97	0.16	56529	95.97
563	312	0.53	36682	62.27	**610**	216	0.37	49688	84.35	**657**	84	0.14	56613	96.11
564	320	0.54	37002	62.82	**611**	210	0.36	49898	84.71	**658**	94	0.16	56707	96.27
565	310	0.53	37312	63.34	**612**	197	0.33	50095	85.05	**659**	70	0.12	56777	96.39
566	334	0.57	37646	63.91	**613**	221	0.38	50316	85.42	**660**	67	0.11	56844	96.50
567	329	0.56	37975	64.47	**614**	190	0.32	50506	85.74	**661**	74	0.13	56918	96.63
568	312	0.53	38287	65.00	**615**	225	0.38	50731	86.12	**662**	64	0.11	56982	96.74
569	333	0.57	38620	65.56	**616**	219	0.37	50950	86.50	**663**	69	0.12	57051	96.85

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Table 175. Mathematics Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
664	81	0.14	57132	96.99	**711**	6	0.01	58624	99.52	**764**	2	0.00	58868	99.94
665	65	0.11	57197	97.10	**712**	11	0.02	58635	99.54	**768**	4	0.01	58872	99.95
666	57	0.10	57254	97.20	**713**	6	0.01	58641	99.55	**773**	1	0.00	58873	99.95
667	79	0.13	57333	97.33	**714**	5	0.01	58646	99.56	**776**	2	0.00	58875	99.95
668	58	0.10	57391	97.43	**715**	7	0.01	58653	99.57	**777**	1	0.00	58876	99.95
669	53	0.09	57444	97.52	**716**	23	0.04	58676	99.61	**781**	3	0.01	58879	99.96
670	60	0.10	57504	97.62	**717**	15	0.03	58691	99.64	**785**	2	0.00	58881	99.96
671	54	0.09	57558	97.71	**718**	6	0.01	58697	99.65	**808**	7	0.01	58888	99.97
672	51	0.09	57609	97.80	**719**	9	0.02	58706	99.66	**810**	8	0.01	58896	99.99
673	59	0.10	57668	97.90	**720**	9	0.02	58715	99.68	**811**	1	0.00	58897	99.99
674	57	0.10	57725	98.00	**721**	3	0.01	58718	99.68	**812**	3	0.01	58900	99.99
675	47	0.08	57772	98.08	**722**	8	0.01	58726	99.70	**830**	4	0.01	58904	100.00
676	36	0.06	57808	98.14	**723**	2	0.00	58728	99.70					
677	57	0.10	57865	98.24	**724**	5	0.01	58733	99.71					
678	35	0.06	57900	98.30	**725**	6	0.01	58739	99.72					
679	37	0.06	57937	98.36	**726**	6	0.01	58745	99.73					
680	41	0.07	57978	98.43	**727**	4	0.01	58749	99.74					
681	36	0.06	58014	98.49	**728**	3	0.01	58752	99.74					
682	43	0.07	58057	98.56	**729**	4	0.01	58756	99.75					
683	27	0.05	58084	98.61	**730**	4	0.01	58760	99.76					
684	28	0.05	58112	98.66	**731**	1	0.00	58761	99.76					
685	33	0.06	58145	98.71	**732**	5	0.01	58766	99.77					
686	28	0.05	58173	98.76	**733**	8	0.01	58774	99.78					
687	27	0.05	58200	98.80	**734**	4	0.01	58778	99.79					
688	29	0.05	58229	98.85	**735**	15	0.03	58793	99.81					
689	25	0.04	58254	98.90	**736**	5	0.01	58798	99.82					
690	30	0.05	58284	98.95	**737**	3	0.01	58801	99.83					
691	29	0.05	58313	99.00	**738**	3	0.01	58804	99.83					
692	23	0.04	58336	99.04	**739**	3	0.01	58807	99.84					
693	13	0.02	58349	99.06	**740**	5	0.01	58812	99.84					
694	17	0.03	58366	99.09	**742**	1	0.00	58813	99.85					
695	25	0.04	58391	99.13	**743**	7	0.01	58820	99.86					
696	14	0.02	58405	99.15	**745**	2	0.00	58822	99.86					
697	17	0.03	58422	99.18	**747**	4	0.01	58826	99.87					
698	26	0.04	58448	99.23	**748**	2	0.00	58828	99.87					
699	20	0.03	58468	99.26	**749**	2	0.00	58830	99.87					
700	17	0.03	58485	99.29	**751**	1	0.00	58831	99.88					
701	11	0.02	58496	99.31	**752**	1	0.00	58832	99.88					
702	17	0.03	58513	99.34	**753**	1	0.00	58833	99.88					
703	18	0.03	58531	99.37	**754**	1	0.00	58834	99.88					
704	16	0.03	58547	99.39	**755**	2	0.00	58836	99.88					
705	8	0.01	58555	99.41	**756**	1	0.00	58837	99.89					
706	11	0.02	58566	99.43	**759**	15	0.03	58852	99.91					
707	13	0.02	58579	99.45	**760**	3	0.01	58855	99.92					
708	9	0.02	58588	99.46	**761**	4	0.01	58859	99.92					
709	15	0.03	58603	99.49	**762**	3	0.01	58862	99.93					
710	15	0.03	58618	99.51	**763**	4	0.01	58866	99.94					

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Table 176. Reading Grade 7 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	208	0.36	208	0.36	**381**	1	0.00	290	0.50	**433**	4	0.01	480	0.83
304	1	0.00	209	0.36	**382**	3	0.01	293	0.51	**434**	6	0.01	486	0.84
306	1	0.00	210	0.36	**383**	4	0.01	297	0.51	**435**	2	0.00	488	0.84
315	1	0.00	211	0.37	**384**	2	0.00	299	0.52	**436**	4	0.01	492	0.85
316	1	0.00	212	0.37	**386**	5	0.01	304	0.53	**437**	4	0.01	496	0.86
320	1	0.00	213	0.37	**387**	5	0.01	309	0.53	**438**	3	0.01	499	0.86
322	2	0.00	215	0.37	**388**	3	0.01	312	0.54	**439**	2	0.00	501	0.87
323	2	0.00	217	0.38	**389**	2	0.00	314	0.54	**440**	6	0.01	507	0.88
326	1	0.00	218	0.38	**392**	3	0.01	317	0.55	**441**	12	0.02	519	0.90
331	2	0.00	220	0.38	**393**	2	0.00	319	0.55	**442**	8	0.01	527	0.91
334	2	0.00	222	0.38	**394**	3	0.01	322	0.56	**443**	6	0.01	533	0.92
335	1	0.00	223	0.39	**395**	1	0.00	323	0.56	**444**	10	0.02	543	0.94
338	2	0.00	225	0.39	**396**	4	0.01	327	0.57	**445**	10	0.02	553	0.96
341	1	0.00	226	0.39	**397**	5	0.01	332	0.57	**446**	12	0.02	565	0.98
343	1	0.00	227	0.39	**398**	5	0.01	337	0.58	**447**	10	0.02	575	1.00
344	2	0.00	229	0.40	**400**	2	0.00	339	0.59	**448**	13	0.02	588	1.02
345	1	0.00	230	0.40	**401**	2	0.00	341	0.59	**449**	9	0.02	597	1.03
346	1	0.00	231	0.40	**402**	3	0.01	344	0.60	**450**	13	0.02	610	1.06
348	1	0.00	232	0.40	**403**	3	0.01	347	0.60	**451**	5	0.01	615	1.06
350	2	0.00	234	0.41	**404**	3	0.01	350	0.61	**452**	9	0.02	624	1.08
351	5	0.01	239	0.41	**405**	6	0.01	356	0.62	**453**	12	0.02	636	1.10
352	1	0.00	240	0.42	**406**	4	0.01	360	0.62	**454**	12	0.02	648	1.12
353	1	0.00	241	0.42	**407**	4	0.01	364	0.63	**455**	8	0.01	656	1.14
354	1	0.00	242	0.42	**408**	4	0.01	368	0.64	**456**	11	0.02	667	1.15
355	4	0.01	246	0.43	**409**	3	0.01	371	0.64	**457**	10	0.02	677	1.17
356	3	0.01	249	0.43	**411**	5	0.01	376	0.65	**458**	12	0.02	689	1.19
357	2	0.00	251	0.43	**412**	2	0.00	378	0.65	**459**	9	0.02	698	1.21
358	1	0.00	252	0.44	**413**	1	0.00	379	0.66	**460**	14	0.02	712	1.23
359	2	0.00	254	0.44	**414**	6	0.01	385	0.67	**461**	9	0.02	721	1.25
360	1	0.00	255	0.44	**415**	7	0.01	392	0.68	**462**	12	0.02	733	1.27
361	2	0.00	257	0.44	**416**	4	0.01	396	0.69	**463**	10	0.02	743	1.29
362	2	0.00	259	0.45	**417**	1	0.00	397	0.69	**464**	9	0.02	752	1.30
363	1	0.00	260	0.45	**418**	2	0.00	399	0.69	**465**	11	0.02	763	1.32
364	4	0.01	264	0.46	**419**	1	0.00	400	0.69	**466**	20	0.03	783	1.36
365	1	0.00	265	0.46	**420**	2	0.00	402	0.70	**467**	6	0.01	789	1.37
367	2	0.00	267	0.46	**421**	6	0.01	408	0.71	**468**	13	0.02	802	1.39
368	1	0.00	268	0.46	**422**	4	0.01	412	0.71	**469**	11	0.02	813	1.41
369	2	0.00	270	0.47	**423**	6	0.01	418	0.72	**470**	14	0.02	827	1.43
370	4	0.01	274	0.47	**424**	5	0.01	423	0.73	**471**	21	0.04	848	1.47
372	1	0.00	275	0.48	**425**	6	0.01	429	0.74	**472**	20	0.03	868	1.50
373	1	0.00	276	0.48	**426**	12	0.02	441	0.76	**473**	17	0.03	885	1.53
374	4	0.01	280	0.48	**427**	4	0.01	445	0.77	**474**	15	0.03	900	1.56
375	1	0.00	281	0.49	**428**	6	0.01	451	0.78	**475**	19	0.03	919	1.59
376	2	0.00	283	0.49	**429**	12	0.02	463	0.80	**476**	17	0.03	936	1.62
377	3	0.01	286	0.50	**430**	5	0.01	468	0.81	**477**	19	0.03	955	1.65
379	1	0.00	287	0.50	**431**	7	0.01	475	0.82	**478**	24	0.04	979	1.69
380	2	0.00	289	0.50	**432**	1	0.00	476	0.82	**479**	17	0.03	996	1.72

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Table 176. Reading Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
480	22	0.04	1018	1.76	**527**	60	0.10	2821	4.88	**574**	174	0.30	7459	12.91
481	20	0.03	1038	1.80	**528**	58	0.10	2879	4.98	**575**	136	0.24	7595	13.15
482	23	0.04	1061	1.84	**529**	48	0.08	2927	5.07	**576**	147	0.25	7742	13.40
483	25	0.04	1086	1.88	**530**	51	0.09	2978	5.16	**577**	142	0.25	7884	13.65
484	33	0.06	1119	1.94	**531**	63	0.11	3041	5.26	**578**	184	0.32	8068	13.97
485	25	0.04	1144	1.98	**532**	55	0.10	3096	5.36	**579**	171	0.30	8239	14.26
486	26	0.05	1170	2.03	**533**	69	0.12	3165	5.48	**580**	169	0.29	8408	14.56
487	32	0.06	1202	2.08	**534**	64	0.11	3229	5.59	**581**	166	0.29	8574	14.84
488	24	0.04	1226	2.12	**535**	76	0.13	3305	5.72	**582**	171	0.30	8745	15.14
489	34	0.06	1260	2.18	**536**	78	0.14	3383	5.86	**583**	183	0.32	8928	15.46
490	36	0.06	1296	2.24	**537**	71	0.12	3454	5.98	**584**	184	0.32	9112	15.77
491	21	0.04	1317	2.28	**538**	72	0.12	3526	6.10	**585**	195	0.34	9307	16.11
492	26	0.05	1343	2.32	**539**	75	0.13	3601	6.23	**586**	169	0.29	9476	16.40
493	36	0.06	1379	2.39	**540**	78	0.14	3679	6.37	**587**	191	0.33	9667	16.73
494	33	0.06	1412	2.44	**541**	76	0.13	3755	6.50	**588**	195	0.34	9862	17.07
495	32	0.06	1444	2.50	**542**	61	0.11	3816	6.61	**589**	202	0.35	10064	17.42
496	31	0.05	1475	2.55	**543**	85	0.15	3901	6.75	**590**	227	0.39	10291	17.81
497	38	0.07	1513	2.62	**544**	71	0.12	3972	6.88	**591**	199	0.34	10490	18.16
498	30	0.05	1543	2.67	**545**	79	0.14	4051	7.01	**592**	201	0.35	10691	18.51
499	22	0.04	1565	2.71	**546**	87	0.15	4138	7.16	**593**	210	0.36	10901	18.87
500	32	0.06	1597	2.76	**547**	82	0.14	4220	7.31	**594**	250	0.43	11151	19.30
501	37	0.06	1634	2.83	**548**	78	0.14	4298	7.44	**595**	254	0.44	11405	19.74
502	50	0.09	1684	2.92	**549**	93	0.16	4391	7.60	**596**	228	0.39	11633	20.14
503	34	0.06	1718	2.97	**550**	80	0.14	4471	7.74	**597**	238	0.41	11871	20.55
504	36	0.06	1754	3.04	**551**	94	0.16	4565	7.90	**598**	253	0.44	12124	20.99
505	51	0.09	1805	3.12	**552**	95	0.16	4660	8.07	**599**	242	0.42	12366	21.41
506	41	0.07	1846	3.20	**553**	92	0.16	4752	8.23	**600**	262	0.45	12628	21.86
507	42	0.07	1888	3.27	**554**	107	0.19	4859	8.41	**601**	233	0.40	12861	22.26
508	32	0.06	1920	3.32	**555**	91	0.16	4950	8.57	**602**	241	0.42	13102	22.68
509	40	0.07	1960	3.39	**556**	108	0.19	5058	8.76	**603**	234	0.41	13336	23.09
510	44	0.08	2004	3.47	**557**	106	0.18	5164	8.94	**604**	244	0.42	13580	23.51
511	50	0.09	2054	3.56	**558**	140	0.24	5304	9.18	**605**	269	0.47	13849	23.97
512	38	0.07	2092	3.62	**559**	128	0.22	5432	9.40	**606**	262	0.45	14111	24.43
513	50	0.09	2142	3.71	**560**	113	0.20	5545	9.60	**607**	289	0.50	14400	24.93
514	34	0.06	2176	3.77	**561**	99	0.17	5644	9.77	**608**	314	0.54	14714	25.47
515	41	0.07	2217	3.84	**562**	138	0.24	5782	10.01	**609**	279	0.48	14993	25.95
516	44	0.08	2261	3.91	**563**	125	0.22	5907	10.23	**610**	285	0.49	15278	26.45
517	41	0.07	2302	3.99	**564**	122	0.21	6029	10.44	**611**	293	0.51	15571	26.96
518	41	0.07	2343	4.06	**565**	128	0.22	6157	10.66	**612**	312	0.54	15883	27.50
519	40	0.07	2383	4.13	**566**	128	0.22	6285	10.88	**613**	318	0.55	16201	28.05
520	52	0.09	2435	4.22	**567**	131	0.23	6416	11.11	**614**	298	0.52	16499	28.56
521	59	0.10	2494	4.32	**568**	143	0.25	6559	11.35	**615**	309	0.53	16808	29.10
522	57	0.10	2551	4.42	**569**	148	0.26	6707	11.61	**616**	325	0.56	17133	29.66
523	57	0.10	2608	4.51	**570**	123	0.21	6830	11.82	**617**	326	0.56	17459	30.22
524	48	0.08	2656	4.60	**571**	155	0.27	6985	12.09	**618**	319	0.55	17778	30.78
525	48	0.08	2704	4.68	**572**	143	0.25	7128	12.34	**619**	304	0.53	18082	31.30
526	57	0.10	2761	4.78	**573**	157	0.27	7285	12.61	**620**	326	0.56	18408	31.87

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Table 176. Reading Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
621	299	0.52	18707	32.38	**668**	406	0.70	37589	65.07	**715**	192	0.33	52413	90.73
622	341	0.59	19048	32.97	**669**	385	0.67	37974	65.74	**716**	228	0.39	52641	91.13
623	361	0.62	19409	33.60	**670**	405	0.70	38379	66.44	**717**	197	0.34	52838	91.47
624	342	0.59	19751	34.19	**671**	418	0.72	38797	67.16	**718**	187	0.32	53025	91.79
625	357	0.62	20108	34.81	**672**	407	0.70	39204	67.87	**719**	160	0.28	53185	92.07
626	352	0.61	20460	35.42	**673**	397	0.69	39601	68.55	**720**	184	0.32	53369	92.39
627	338	0.59	20798	36.00	**674**	432	0.75	40033	69.30	**721**	182	0.32	53551	92.70
628	394	0.68	21192	36.69	**675**	379	0.66	40412	69.96	**722**	162	0.28	53713	92.98
629	388	0.67	21580	37.36	**676**	362	0.63	40774	70.58	**723**	150	0.26	53863	93.24
630	360	0.62	21940	37.98	**677**	405	0.70	41179	71.29	**724**	163	0.28	54026	93.53
631	390	0.68	22330	38.66	**678**	372	0.64	41551	71.93	**725**	147	0.25	54173	93.78
632	407	0.70	22737	39.36	**679**	346	0.60	41897	72.53	**726**	163	0.28	54336	94.06
633	398	0.69	23135	40.05	**680**	373	0.65	42270	73.17	**727**	151	0.26	54487	94.32
634	401	0.69	23536	40.74	**681**	352	0.61	42622	73.78	**728**	115	0.20	54602	94.52
635	404	0.70	23940	41.44	**682**	379	0.66	43001	74.44	**729**	116	0.20	54718	94.72
636	375	0.65	24315	42.09	**683**	362	0.63	43363	75.07	**730**	148	0.26	54866	94.98
637	382	0.66	24697	42.75	**684**	368	0.64	43731	75.70	**731**	130	0.23	54996	95.20
638	417	0.72	25114	43.48	**685**	339	0.59	44070	76.29	**732**	102	0.18	55098	95.38
639	440	0.76	25554	44.24	**686**	349	0.60	44419	76.89	**733**	110	0.19	55208	95.57
640	419	0.73	25973	44.96	**687**	352	0.61	44771	77.50	**734**	125	0.22	55333	95.79
641	426	0.74	26399	45.70	**688**	333	0.58	45104	78.08	**735**	132	0.23	55465	96.02
642	385	0.67	26784	46.37	**689**	323	0.56	45427	78.64	**736**	112	0.19	55577	96.21
643	393	0.68	27177	47.05	**690**	347	0.60	45774	79.24	**737**	111	0.19	55688	96.40
644	400	0.69	27577	47.74	**691**	334	0.58	46108	79.82	**738**	117	0.20	55805	96.61
645	424	0.73	28001	48.47	**692**	296	0.51	46404	80.33	**739**	94	0.16	55899	96.77
646	370	0.64	28371	49.11	**693**	306	0.53	46710	80.86	**740**	90	0.16	55989	96.92
647	392	0.68	28763	49.79	**694**	337	0.58	47047	81.44	**741**	76	0.13	56065	97.06
648	436	0.75	29199	50.55	**695**	277	0.48	47324	81.92	**742**	68	0.12	56133	97.17
649	385	0.67	29584	51.21	**696**	290	0.50	47614	82.43	**743**	94	0.16	56227	97.34
650	422	0.73	30006	51.94	**697**	320	0.55	47934	82.98	**744**	87	0.15	56314	97.49
651	431	0.75	30437	52.69	**698**	281	0.49	48215	83.47	**745**	77	0.13	56391	97.62
652	411	0.71	30848	53.40	**699**	291	0.50	48506	83.97	**746**	66	0.11	56457	97.73
653	394	0.68	31242	54.08	**700**	270	0.47	48776	84.44	**747**	47	0.08	56504	97.82
654	430	0.74	31672	54.83	**701**	259	0.45	49035	84.89	**748**	58	0.10	56562	97.92
655	412	0.71	32084	55.54	**702**	296	0.51	49331	85.40	**749**	56	0.10	56618	98.01
656	401	0.69	32485	56.24	**703**	276	0.48	49607	85.88	**750**	51	0.09	56669	98.10
657	438	0.76	32923	56.99	**704**	249	0.43	49856	86.31	**751**	50	0.09	56719	98.19
658	422	0.73	33345	57.72	**705**	270	0.47	50126	86.77	**752**	47	0.08	56766	98.27
659	419	0.73	33764	58.45	**706**	245	0.42	50371	87.20	**753**	46	0.08	56812	98.35
660	457	0.79	34221	59.24	**707**	250	0.43	50621	87.63	**754**	47	0.08	56859	98.43
661	443	0.77	34664	60.01	**708**	251	0.43	50872	88.07	**755**	59	0.10	56918	98.53
662	419	0.73	35083	60.73	**709**	227	0.39	51099	88.46	**756**	44	0.08	56962	98.61
663	426	0.74	35509	61.47	**710**	213	0.37	51312	88.83	**757**	44	0.08	57006	98.68
664	418	0.72	35927	62.19	**711**	250	0.43	51562	89.26	**758**	35	0.06	57041	98.74
665	437	0.76	36364	62.95	**712**	222	0.38	51784	89.64	**759**	46	0.08	57087	98.82
666	422	0.73	36786	63.68	**713**	223	0.39	52007	90.03	**760**	34	0.06	57121	98.88
667	397	0.69	37183	64.37	**714**	214	0.37	52221	90.40	**761**	29	0.05	57150	98.93

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Table 176. Reading Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
762	24	0.04	57174	98.98	**810**	3	0.01	57727	99.93
763	35	0.06	57209	99.04	**811**	1	0.00	57728	99.93
764	40	0.07	57249	99.11	**812**	4	0.01	57732	99.94
765	29	0.05	57278	99.16	**813**	4	0.01	57736	99.95
766	30	0.05	57308	99.21	**814**	1	0.00	57737	99.95
767	27	0.05	57335	99.25	**815**	2	0.00	57739	99.95
768	23	0.04	57358	99.29	**817**	2	0.00	57741	99.96
769	28	0.05	57386	99.34	**819**	1	0.00	57742	99.96
770	20	0.03	57406	99.38	**820**	2	0.00	57744	99.96
771	25	0.04	57431	99.42	**822**	1	0.00	57745	99.96
772	22	0.04	57453	99.46	**824**	1	0.00	57746	99.97
773	17	0.03	57470	99.49	**825**	2	0.00	57748	99.97
774	17	0.03	57487	99.52	**826**	1	0.00	57749	99.97
775	9	0.02	57496	99.53	**829**	3	0.01	57752	99.98
776	24	0.04	57520	99.57	**830**	2	0.00	57754	99.98
777	19	0.03	57539	99.61	**833**	1	0.00	57755	99.98
778	13	0.02	57552	99.63	**834**	2	0.00	57757	99.98
779	3	0.01	57555	99.63	**835**	1	0.00	57758	99.99
780	9	0.02	57564	99.65	**837**	1	0.00	57759	99.99
781	11	0.02	57575	99.67	**841**	1	0.00	57760	99.99
782	9	0.02	57584	99.68	**844**	1	0.00	57761	99.99
783	13	0.02	57597	99.71	**847**	1	0.00	57762	99.99
784	11	0.02	57608	99.73	**868**	1	0.00	57763	99.99
785	9	0.02	57617	99.74	**876**	1	0.00	57764	100
786	4	0.01	57621	99.75	**879**	1	0.00	57765	100
787	8	0.01	57629	99.76	**980**	1	0.00	57766	100
788	10	0.02	57639	99.78					
789	4	0.01	57643	99.79					
790	3	0.01	57646	99.79					
791	8	0.01	57654	99.81					
792	9	0.02	57663	99.82					
793	7	0.01	57670	99.83					
794	6	0.01	57676	99.84					
795	3	0.01	57679	99.85					
796	3	0.01	57682	99.85					
797	5	0.01	57687	99.86					
798	5	0.01	57692	99.87					
799	6	0.01	57698	99.88					
800	1	0.00	57699	99.88					
801	4	0.01	57703	99.89					
802	1	0.00	57704	99.89					
803	1	0.00	57705	99.89					
805	6	0.01	57711	99.90					
806	4	0.01	57715	99.91					
807	2	0.00	57717	99.92					
808	7	0.01	57724	99.93					

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Table 177. Writing Grade 7 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
240	27	0.05	27	0.05	**318**	2	0.00	111	0.19	**366**	12	0.02	398	0.69
242	2	0.00	29	0.05	**319**	4	0.01	115	0.20	**367**	17	0.03	415	0.72
246	1	0.00	30	0.05	**320**	6	0.01	121	0.21	**368**	13	0.02	428	0.74
253	1	0.00	31	0.05	**321**	4	0.01	125	0.22	**369**	13	0.02	441	0.76
254	2	0.00	33	0.06	**322**	3	0.01	128	0.22	**370**	19	0.03	460	0.80
257	1	0.00	34	0.06	**323**	4	0.01	132	0.23	**371**	21	0.04	481	0.83
258	1	0.00	35	0.06	**324**	4	0.01	136	0.24	**372**	18	0.03	499	0.86
259	1	0.00	36	0.06	**325**	3	0.01	139	0.24	**373**	15	0.03	514	0.89
263	1	0.00	37	0.06	**326**	4	0.01	143	0.25	**374**	17	0.03	531	0.92
267	1	0.00	38	0.07	**328**	1	0.00	144	0.25	**375**	14	0.02	545	0.94
270	2	0.00	40	0.07	**329**	2	0.00	146	0.25	**376**	18	0.03	563	0.97
271	2	0.00	42	0.07	**330**	5	0.01	151	0.26	**377**	17	0.03	580	1.00
273	1	0.00	43	0.07	**331**	1	0.00	152	0.26	**378**	18	0.03	598	1.04
274	2	0.00	45	0.08	**332**	4	0.01	156	0.27	**379**	12	0.02	610	1.06
278	2	0.00	47	0.08	**333**	2	0.00	158	0.27	**380**	18	0.03	628	1.09
279	2	0.00	49	0.08	**334**	2	0.00	160	0.28	**381**	16	0.03	644	1.11
281	1	0.00	50	0.09	**335**	4	0.01	164	0.28	**382**	18	0.03	662	1.15
282	1	0.00	51	0.09	**336**	3	0.01	167	0.29	**383**	14	0.02	676	1.17
283	2	0.00	53	0.09	**337**	4	0.01	171	0.30	**384**	20	0.03	696	1.20
284	3	0.01	56	0.10	**338**	9	0.02	180	0.31	**385**	23	0.04	719	1.24
285	1	0.00	57	0.10	**339**	5	0.01	185	0.32	**386**	22	0.04	741	1.28
286	1	0.00	58	0.10	**340**	6	0.01	191	0.33	**387**	22	0.04	763	1.32
288	2	0.00	60	0.10	**341**	5	0.01	196	0.34	**388**	22	0.04	785	1.36
289	1	0.00	61	0.11	**342**	9	0.02	205	0.35	**389**	18	0.03	803	1.39
290	1	0.00	62	0.11	**343**	6	0.01	211	0.37	**390**	24	0.04	827	1.43
292	1	0.00	63	0.11	**344**	8	0.01	219	0.38	**391**	22	0.04	849	1.47
293	1	0.00	64	0.11	**345**	7	0.01	226	0.39	**392**	20	0.03	869	1.50
294	4	0.01	68	0.12	**346**	4	0.01	230	0.40	**393**	23	0.04	892	1.54
295	1	0.00	69	0.12	**347**	5	0.01	235	0.41	**394**	31	0.05	923	1.60
298	1	0.00	70	0.12	**348**	3	0.01	238	0.41	**395**	31	0.05	954	1.65
299	1	0.00	71	0.12	**349**	4	0.01	242	0.42	**396**	28	0.05	982	1.70
300	2	0.00	73	0.13	**350**	10	0.02	252	0.44	**397**	25	0.04	1007	1.74
302	1	0.00	74	0.13	**351**	7	0.01	259	0.45	**398**	40	0.07	1047	1.81
303	2	0.00	76	0.13	**352**	7	0.01	266	0.46	**399**	30	0.05	1077	1.86
304	1	0.00	77	0.13	**353**	7	0.01	273	0.47	**400**	19	0.03	1096	1.90
305	2	0.00	79	0.14	**354**	5	0.01	278	0.48	**401**	48	0.08	1144	1.98
306	3	0.01	82	0.14	**355**	7	0.01	285	0.49	**402**	33	0.06	1177	2.04
307	1	0.00	83	0.14	**356**	9	0.02	294	0.51	**403**	26	0.05	1203	2.08
308	1	0.00	84	0.15	**357**	5	0.01	299	0.52	**404**	34	0.06	1237	2.14
309	3	0.01	87	0.15	**358**	9	0.02	308	0.53	**405**	24	0.04	1261	2.18
311	2	0.00	89	0.15	**359**	11	0.02	319	0.55	**406**	30	0.05	1291	2.23
312	3	0.01	92	0.16	**360**	6	0.01	325	0.56	**407**	25	0.04	1316	2.28
313	1	0.00	93	0.16	**361**	10	0.02	335	0.58	**408**	31	0.05	1347	2.33
314	4	0.01	97	0.17	**362**	9	0.02	344	0.60	**409**	33	0.06	1380	2.39
315	3	0.01	100	0.17	**363**	15	0.03	359	0.62	**410**	30	0.05	1410	2.44
316	6	0.01	106	0.18	**364**	17	0.03	376	0.65	**411**	38	0.07	1448	2.51
317	3	0.01	109	0.19	**365**	10	0.02	386	0.67	**412**	43	0.07	1491	2.58

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Table 177. Writing Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
413	51	0.09	1542	2.67	**460**	119	0.21	5277	9.13	**507**	275	0.48	14375	24.88
414	48	0.08	1590	2.75	**461**	122	0.21	5399	9.35	**508**	267	0.46	14642	25.34
415	48	0.08	1638	2.84	**462**	126	0.22	5525	9.56	**509**	291	0.50	14933	25.85
416	38	0.07	1676	2.90	**463**	151	0.26	5676	9.82	**510**	275	0.48	15208	26.32
417	41	0.07	1717	2.97	**464**	137	0.24	5813	10.06	**511**	266	0.46	15474	26.78
418	54	0.09	1771	3.07	**465**	175	0.30	5988	10.36	**512**	267	0.46	15741	27.25
419	53	0.09	1824	3.16	**466**	131	0.23	6119	10.59	**513**	296	0.51	16037	27.76
420	49	0.08	1873	3.24	**467**	126	0.22	6245	10.81	**514**	295	0.51	16332	28.27
421	49	0.08	1922	3.33	**468**	156	0.27	6401	11.08	**515**	283	0.49	16615	28.76
422	54	0.09	1976	3.42	**469**	145	0.25	6546	11.33	**516**	293	0.51	16908	29.27
423	58	0.10	2034	3.52	**470**	129	0.22	6675	11.55	**517**	315	0.55	17223	29.81
424	51	0.09	2085	3.61	**471**	152	0.26	6827	11.82	**518**	279	0.48	17502	30.29
425	40	0.07	2125	3.68	**472**	139	0.24	6966	12.06	**519**	314	0.54	17816	30.84
426	71	0.12	2196	3.80	**473**	142	0.25	7108	12.30	**520**	308	0.53	18124	31.37
427	68	0.12	2264	3.92	**474**	182	0.32	7290	12.62	**521**	279	0.48	18403	31.85
428	57	0.10	2321	4.02	**475**	149	0.26	7439	12.88	**522**	321	0.56	18724	32.41
429	67	0.12	2388	4.13	**476**	170	0.29	7609	13.17	**523**	300	0.52	19024	32.93
430	64	0.11	2452	4.24	**477**	198	0.34	7807	13.51	**524**	285	0.49	19309	33.42
431	71	0.12	2523	4.37	**478**	168	0.29	7975	13.80	**525**	317	0.55	19626	33.97
432	60	0.10	2583	4.47	**479**	187	0.32	8162	14.13	**526**	315	0.55	19941	34.52
433	77	0.13	2660	4.60	**480**	179	0.31	8341	14.44	**527**	339	0.59	20280	35.10
434	80	0.14	2740	4.74	**481**	220	0.38	8561	14.82	**528**	323	0.56	20603	35.66
435	71	0.12	2811	4.87	**482**	179	0.31	8740	15.13	**529**	312	0.54	20915	36.20
436	82	0.14	2893	5.01	**483**	202	0.35	8942	15.48	**530**	326	0.56	21241	36.77
437	74	0.13	2967	5.14	**484**	182	0.32	9124	15.79	**531**	331	0.57	21572	37.34
438	74	0.13	3041	5.26	**485**	181	0.31	9305	16.11	**532**	297	0.51	21869	37.85
439	84	0.15	3125	5.41	**486**	173	0.30	9478	16.41	**533**	336	0.58	22205	38.43
440	70	0.12	3195	5.53	**487**	199	0.34	9677	16.75	**534**	339	0.59	22544	39.02
441	73	0.13	3268	5.66	**488**	194	0.34	9871	17.09	**535**	352	0.61	22896	39.63
442	96	0.17	3364	5.82	**489**	221	0.38	10092	17.47	**536**	350	0.61	23246	40.24
443	76	0.13	3440	5.95	**490**	212	0.37	10304	17.84	**537**	310	0.54	23556	40.77
444	88	0.15	3528	6.11	**491**	219	0.38	10523	18.21	**538**	350	0.61	23906	41.38
445	100	0.17	3628	6.28	**492**	200	0.35	10723	18.56	**539**	330	0.57	24236	41.95
446	92	0.16	3720	6.44	**493**	195	0.34	10918	18.90	**540**	342	0.59	24578	42.54
447	116	0.20	3836	6.64	**494**	227	0.39	11145	19.29	**541**	348	0.60	24926	43.14
448	95	0.16	3931	6.80	**495**	230	0.40	11375	19.69	**542**	355	0.61	25281	43.76
449	122	0.21	4053	7.02	**496**	217	0.38	11592	20.06	**543**	338	0.59	25619	44.34
450	114	0.20	4167	7.21	**497**	229	0.40	11821	20.46	**544**	351	0.61	25970	44.95
451	107	0.19	4274	7.40	**498**	252	0.44	12073	20.90	**545**	341	0.59	26311	45.54
452	95	0.16	4369	7.56	**499**	262	0.45	12335	21.35	**546**	375	0.65	26686	46.19
453	128	0.22	4497	7.78	**500**	271	0.47	12606	21.82	**547**	349	0.60	27035	46.80
454	92	0.16	4589	7.94	**501**	249	0.43	12855	22.25	**548**	343	0.59	27378	47.39
455	109	0.19	4698	8.13	**502**	281	0.49	13136	22.74	**549**	342	0.59	27720	47.98
456	103	0.18	4801	8.31	**503**	219	0.38	13355	23.12	**550**	380	0.66	28100	48.64
457	115	0.20	4916	8.51	**504**	245	0.42	13600	23.54	**551**	338	0.59	28438	49.22
458	108	0.19	5024	8.70	**505**	278	0.48	13878	24.02	**552**	340	0.59	28778	49.81
459	134	0.23	5158	8.93	**506**	222	0.38	14100	24.41	**553**	322	0.56	29100	50.37

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Table 177. Writing Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
554	352	0.61	29452	50.98	**601**	277	0.48	44430	76.90	**648**	120	0.21	53247	92.17
555	393	0.68	29845	51.66	**602**	272	0.47	44702	77.38	**649**	114	0.20	53361	92.36
556	345	0.60	30190	52.26	**603**	271	0.47	44973	77.84	**650**	115	0.20	53476	92.56
557	362	0.63	30552	52.88	**604**	222	0.38	45195	78.23	**651**	102	0.18	53578	92.74
558	343	0.59	30895	53.48	**605**	246	0.43	45441	78.65	**652**	106	0.18	53684	92.92
559	344	0.60	31239	54.07	**606**	262	0.45	45703	79.11	**653**	107	0.19	53791	93.11
560	340	0.59	31579	54.66	**607**	238	0.41	45941	79.52	**654**	85	0.15	53876	93.25
561	322	0.56	31901	55.22	**608**	218	0.38	46159	79.90	**655**	90	0.16	53966	93.41
562	302	0.52	32203	55.74	**609**	238	0.41	46397	80.31	**656**	112	0.19	54078	93.60
563	375	0.65	32578	56.39	**610**	232	0.40	46629	80.71	**657**	117	0.20	54195	93.81
564	344	0.60	32922	56.99	**611**	230	0.40	46859	81.11	**658**	102	0.18	54297	93.98
565	353	0.61	33275	57.60	**612**	221	0.38	47080	81.49	**659**	101	0.17	54398	94.16
566	358	0.62	33633	58.22	**613**	222	0.38	47302	81.88	**660**	92	0.16	54490	94.32
567	376	0.65	34009	58.87	**614**	236	0.41	47538	82.28	**661**	78	0.14	54568	94.45
568	354	0.61	34363	59.48	**615**	229	0.40	47767	82.68	**662**	81	0.14	54649	94.59
569	335	0.58	34698	60.06	**616**	225	0.39	47992	83.07	**663**	77	0.13	54726	94.73
570	347	0.60	35045	60.66	**617**	221	0.38	48213	83.45	**664**	77	0.13	54803	94.86
571	304	0.53	35349	61.19	**618**	220	0.38	48433	83.83	**665**	73	0.13	54876	94.99
572	325	0.56	35674	61.75	**619**	195	0.34	48628	84.17	**666**	96	0.17	54972	95.15
573	298	0.52	35972	62.26	**620**	202	0.35	48830	84.52	**667**	98	0.17	55070	95.32
574	328	0.57	36300	62.83	**621**	181	0.31	49011	84.83	**668**	84	0.15	55154	95.47
575	347	0.60	36647	63.43	**622**	212	0.37	49223	85.20	**669**	77	0.13	55231	95.60
576	317	0.55	36964	63.98	**623**	215	0.37	49438	85.57	**670**	98	0.17	55329	95.77
577	329	0.57	37293	64.55	**624**	201	0.35	49639	85.92	**671**	50	0.09	55379	95.86
578	302	0.52	37595	65.07	**625**	177	0.31	49816	86.23	**672**	64	0.11	55443	95.97
579	306	0.53	37901	65.60	**626**	186	0.32	50002	86.55	**673**	49	0.08	55492	96.05
580	313	0.54	38214	66.15	**627**	169	0.29	50171	86.84	**674**	49	0.08	55541	96.14
581	318	0.55	38532	66.70	**628**	170	0.29	50341	87.14	**675**	65	0.11	55606	96.25
582	311	0.54	38843	67.23	**629**	184	0.32	50525	87.45	**676**	50	0.09	55656	96.34
583	336	0.58	39179	67.82	**630**	160	0.28	50685	87.73	**677**	51	0.09	55707	96.42
584	319	0.55	39498	68.37	**631**	173	0.30	50858	88.03	**678**	51	0.09	55758	96.51
585	312	0.54	39810	68.91	**632**	160	0.28	51018	88.31	**679**	82	0.14	55840	96.65
586	309	0.53	40119	69.44	**633**	169	0.29	51187	88.60	**680**	75	0.13	55915	96.78
587	311	0.54	40430	69.98	**634**	158	0.27	51345	88.87	**681**	77	0.13	55992	96.92
588	299	0.52	40729	70.50	**635**	153	0.26	51498	89.14	**682**	41	0.07	56033	96.99
589	280	0.48	41009	70.98	**636**	143	0.25	51641	89.39	**683**	57	0.10	56090	97.09
590	317	0.55	41326	71.53	**637**	147	0.25	51788	89.64	**684**	47	0.08	56137	97.17
591	306	0.53	41632	72.06	**638**	147	0.25	51935	89.89	**685**	42	0.07	56179	97.24
592	304	0.53	41936	72.59	**639**	143	0.25	52078	90.14	**686**	36	0.06	56215	97.30
593	301	0.52	42237	73.11	**640**	151	0.26	52229	90.40	**687**	36	0.06	56251	97.37
594	300	0.52	42537	73.63	**641**	147	0.25	52376	90.66	**688**	30	0.05	56281	97.42
595	288	0.50	42825	74.13	**642**	121	0.21	52497	90.87	**689**	31	0.05	56312	97.47
596	267	0.46	43092	74.59	**643**	105	0.18	52602	91.05	**690**	41	0.07	56353	97.54
597	273	0.47	43365	75.06	**644**	148	0.26	52750	91.31	**691**	32	0.06	56385	97.60
598	262	0.45	43627	75.51	**645**	132	0.23	52882	91.53	**692**	52	0.09	56437	97.69
599	273	0.47	43900	75.99	**646**	129	0.22	53011	91.76	**693**	55	0.10	56492	97.78
600	253	0.44	44153	76.42	**647**	116	0.20	53127	91.96	**694**	42	0.07	56534	97.86

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Table 177. Writing Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
695	74	0.13	56608	97.98	**742**	1	0.00	57441	99.43	**800**	1	0.00	57716	99.90
696	33	0.06	56641	98.04	**743**	1	0.00	57442	99.43	**803**	2	0.00	57718	99.90
697	37	0.06	56678	98.10	**744**	7	0.01	57449	99.44	**813**	1	0.00	57719	99.91
698	29	0.05	56707	98.15	**745**	7	0.01	57456	99.45	**820**	1	0.00	57720	99.91
699	24	0.04	56731	98.20	**746**	8	0.01	57464	99.47	**830**	4	0.01	57724	99.92
700	22	0.04	56753	98.23	**747**	10	0.02	57474	99.48	**833**	1	0.00	57725	99.92
701	21	0.04	56774	98.27	**748**	15	0.03	57489	99.51	**836**	5	0.01	57730	99.93
702	28	0.05	56802	98.32	**749**	3	0.01	57492	99.51	**839**	3	0.01	57733	99.93
703	25	0.04	56827	98.36	**750**	13	0.02	57505	99.54	**842**	8	0.01	57741	99.94
704	24	0.04	56851	98.40	**751**	43	0.07	57548	99.61	**846**	15	0.03	57756	99.97
705	24	0.04	56875	98.45	**752**	10	0.02	57558	99.63	**850**	6	0.01	57762	99.98
706	33	0.06	56908	98.50	**753**	16	0.03	57574	99.66	**853**	3	0.01	57765	99.99
707	34	0.06	56942	98.56	**754**	6	0.01	57580	99.67	**872**	1	0.00	57766	99.99
708	24	0.04	56966	98.60	**755**	3	0.01	57583	99.67	**890**	7	0.01	57773	100
709	20	0.03	56986	98.64	**756**	5	0.01	57588	99.68					
710	23	0.04	57009	98.68	**757**	9	0.02	57597	99.70					
711	35	0.06	57044	98.74	**758**	2	0.00	57599	99.70					
712	22	0.04	57066	98.78	**759**	5	0.01	57604	99.71					
713	17	0.03	57083	98.81	**760**	1	0.00	57605	99.71					
714	19	0.03	57102	98.84	**761**	1	0.00	57606	99.71					
715	18	0.03	57120	98.87	**763**	4	0.01	57610	99.72					
716	13	0.02	57133	98.89	**766**	1	0.00	57611	99.72					
717	13	0.02	57146	98.91	**767**	1	0.00	57612	99.72					
718	15	0.03	57161	98.94	**769**	1	0.00	57613	99.72					
719	7	0.01	57168	98.95	**771**	6	0.01	57619	99.73					
720	8	0.01	57176	98.97	**772**	2	0.00	57621	99.74					
721	10	0.02	57186	98.98	**773**	1	0.00	57622	99.74					
722	16	0.03	57202	99.01	**774**	2	0.00	57624	99.74					
723	30	0.05	57232	99.06	**775**	4	0.01	57628	99.75					
724	23	0.04	57255	99.10	**776**	1	0.00	57629	99.75					
725	16	0.03	57271	99.13	**777**	5	0.01	57634	99.76					
726	19	0.03	57290	99.16	**779**	8	0.01	57642	99.77					
727	20	0.03	57310	99.20	**780**	1	0.00	57643	99.77					
728	16	0.03	57326	99.23	**781**	9	0.02	57652	99.79					
729	28	0.05	57354	99.27	**782**	1	0.00	57653	99.79					
730	13	0.02	57367	99.30	**783**	18	0.03	57671	99.82					
731	10	0.02	57377	99.31	**784**	3	0.01	57674	99.83					
732	15	0.03	57392	99.34	**785**	8	0.01	57682	99.84					
733	7	0.01	57399	99.35	**786**	2	0.00	57684	99.85					
734	8	0.01	57407	99.37	**787**	2	0.00	57686	99.85					
735	4	0.01	57411	99.37	**788**	21	0.04	57707	99.89					
736	2	0.00	57413	99.38	**790**	2	0.00	57709	99.89					
737	5	0.01	57418	99.39	**791**	1	0.00	57710	99.89					
738	6	0.01	57424	99.40	**792**	1	0.00	57711	99.89					
739	6	0.01	57430	99.41	**793**	2	0.00	57713	99.90					
740	3	0.01	57433	99.41	**796**	1	0.00	57714	99.90					
741	7	0.01	57440	99.42	**797**	1	0.00	57715	99.90					

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Table 178. Mathematics Grade 7 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
280	351	0.61	351	0.61	**331**	4	0.01	540	0.93	**378**	24	0.04	1189	2.06
281	1	0.00	352	0.61	**332**	8	0.01	548	0.95	**379**	24	0.04	1213	2.10
282	2	0.00	354	0.61	**333**	6	0.01	554	0.96	**380**	24	0.04	1237	2.14
283	2	0.00	356	0.62	**334**	8	0.01	562	0.97	**381**	26	0.04	1263	2.18
284	5	0.01	361	0.62	**335**	4	0.01	566	0.98	**382**	18	0.03	1281	2.21
285	3	0.01	364	0.63	**336**	9	0.02	575	0.99	**383**	21	0.04	1302	2.25
286	1	0.00	365	0.63	**337**	10	0.02	585	1.01	**384**	28	0.05	1330	2.30
290	2	0.00	367	0.63	**338**	13	0.02	598	1.03	**385**	38	0.07	1368	2.37
291	4	0.01	371	0.64	**339**	9	0.02	607	1.05	**386**	32	0.06	1400	2.42
292	3	0.01	374	0.65	**340**	7	0.01	614	1.06	**387**	33	0.06	1433	2.48
293	2	0.00	376	0.65	**341**	6	0.01	620	1.07	**388**	22	0.04	1455	2.52
295	1	0.00	377	0.65	**342**	10	0.02	630	1.09	**389**	29	0.05	1484	2.57
296	1	0.00	378	0.65	**343**	21	0.04	651	1.13	**390**	31	0.05	1515	2.62
297	4	0.01	382	0.66	**344**	6	0.01	657	1.14	**391**	28	0.05	1543	2.67
298	2	0.00	384	0.66	**345**	7	0.01	664	1.15	**392**	32	0.06	1575	2.72
299	1	0.00	385	0.67	**346**	8	0.01	672	1.16	**393**	24	0.04	1599	2.76
300	6	0.01	391	0.68	**347**	13	0.02	685	1.18	**394**	30	0.05	1629	2.82
301	2	0.00	393	0.68	**348**	7	0.01	692	1.20	**395**	35	0.06	1664	2.88
302	6	0.01	399	0.69	**349**	5	0.01	697	1.21	**396**	36	0.06	1700	2.94
303	3	0.01	402	0.70	**350**	8	0.01	705	1.22	**397**	35	0.06	1735	3.00
304	4	0.01	406	0.70	**351**	7	0.01	712	1.23	**398**	40	0.07	1775	3.07
305	6	0.01	412	0.71	**352**	9	0.02	721	1.25	**399**	51	0.09	1826	3.16
306	2	0.00	414	0.72	**353**	11	0.02	732	1.27	**400**	33	0.06	1859	3.21
307	2	0.00	416	0.72	**354**	15	0.03	747	1.29	**401**	38	0.07	1897	3.28
308	1	0.00	417	0.72	**355**	18	0.03	765	1.32	**402**	48	0.08	1945	3.36
309	3	0.01	420	0.73	**356**	10	0.02	775	1.34	**403**	43	0.07	1988	3.44
310	4	0.01	424	0.73	**357**	15	0.03	790	1.37	**404**	56	0.10	2044	3.53
311	1	0.00	425	0.73	**358**	12	0.02	802	1.39	**405**	42	0.07	2086	3.61
312	1	0.00	426	0.74	**359**	18	0.03	820	1.42	**406**	45	0.08	2131	3.68
313	11	0.02	437	0.76	**360**	15	0.03	835	1.44	**407**	38	0.07	2169	3.75
314	5	0.01	442	0.76	**361**	9	0.02	844	1.46	**408**	56	0.10	2225	3.85
315	3	0.01	445	0.77	**362**	12	0.02	856	1.48	**409**	26	0.04	2251	3.89
316	9	0.02	454	0.78	**363**	21	0.04	877	1.52	**410**	58	0.10	2309	3.99
317	5	0.01	459	0.79	**364**	20	0.03	897	1.55	**411**	43	0.07	2352	4.07
318	5	0.01	464	0.80	**365**	14	0.02	911	1.58	**412**	49	0.08	2401	4.15
319	7	0.01	471	0.81	**366**	6	0.01	917	1.59	**413**	66	0.11	2467	4.27
320	7	0.01	478	0.83	**367**	18	0.03	935	1.62	**414**	45	0.08	2512	4.34
321	6	0.01	484	0.84	**368**	16	0.03	951	1.64	**415**	54	0.09	2566	4.44
322	3	0.01	487	0.84	**369**	22	0.04	973	1.68	**416**	67	0.12	2633	4.55
323	3	0.01	490	0.85	**370**	27	0.05	1000	1.73	**417**	57	0.10	2690	4.65
324	7	0.01	497	0.86	**371**	17	0.03	1017	1.76	**418**	46	0.08	2736	4.73
325	5	0.01	502	0.87	**372**	19	0.03	1036	1.79	**419**	54	0.09	2790	4.82
326	3	0.01	505	0.87	**373**	22	0.04	1058	1.83	**420**	42	0.07	2832	4.90
327	7	0.01	512	0.89	**374**	22	0.04	1080	1.87	**421**	61	0.11	2893	5.00
328	8	0.01	520	0.90	**375**	28	0.05	1108	1.92	**422**	52	0.09	2945	5.09
329	6	0.01	526	0.91	**376**	34	0.06	1142	1.97	**423**	56	0.10	3001	5.19
330	10	0.02	536	0.93	**377**	23	0.04	1165	2.01	**424**	60	0.10	3061	5.29

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Table 178. Mathematics Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
425	74	0.13	3135	5.42	**472**	118	0.20	7933	13.72	**519**	248	0.43	17906	30.96
426	64	0.11	3199	5.53	**473**	154	0.27	8087	13.98	**520**	273	0.47	18179	31.43
427	57	0.10	3256	5.63	**474**	149	0.26	8236	14.24	**521**	271	0.47	18450	31.90
428	63	0.11	3319	5.74	**475**	164	0.28	8400	14.52	**522**	241	0.42	18691	32.32
429	69	0.12	3388	5.86	**476**	162	0.28	8562	14.80	**523**	265	0.46	18956	32.78
430	66	0.11	3454	5.97	**477**	154	0.27	8716	15.07	**524**	268	0.46	19224	33.24
431	63	0.11	3517	6.08	**478**	160	0.28	8876	15.35	**525**	270	0.47	19494	33.71
432	73	0.13	3590	6.21	**479**	156	0.27	9032	15.62	**526**	260	0.45	19754	34.16
433	74	0.13	3664	6.34	**480**	185	0.32	9217	15.94	**527**	273	0.47	20027	34.63
434	68	0.12	3732	6.45	**481**	172	0.30	9389	16.23	**528**	296	0.51	20323	35.14
435	81	0.14	3813	6.59	**482**	186	0.32	9575	16.56	**529**	312	0.54	20635	35.68
436	66	0.11	3879	6.71	**483**	170	0.29	9745	16.85	**530**	295	0.51	20930	36.19
437	84	0.15	3963	6.85	**484**	177	0.31	9922	17.16	**531**	291	0.50	21221	36.69
438	93	0.16	4056	7.01	**485**	175	0.30	10097	17.46	**532**	290	0.50	21511	37.19
439	84	0.15	4140	7.16	**486**	203	0.35	10300	17.81	**533**	277	0.48	21788	37.67
440	73	0.13	4213	7.28	**487**	205	0.35	10505	18.16	**534**	275	0.48	22063	38.15
441	79	0.14	4292	7.42	**488**	193	0.33	10698	18.50	**535**	280	0.48	22343	38.63
442	97	0.17	4389	7.59	**489**	207	0.36	10905	18.86	**536**	304	0.53	22647	39.16
443	86	0.15	4475	7.74	**490**	184	0.32	11089	19.17	**537**	296	0.51	22943	39.67
444	74	0.13	4549	7.87	**491**	180	0.31	11269	19.48	**538**	281	0.49	23224	40.15
445	102	0.18	4651	8.04	**492**	196	0.34	11465	19.82	**539**	285	0.49	23509	40.65
446	96	0.17	4747	8.21	**493**	184	0.32	11649	20.14	**540**	328	0.57	23837	41.21
447	108	0.19	4855	8.39	**494**	206	0.36	11855	20.50	**541**	302	0.52	24139	41.74
448	120	0.21	4975	8.60	**495**	230	0.40	12085	20.90	**542**	360	0.62	24499	42.36
449	127	0.22	5102	8.82	**496**	225	0.39	12310	21.28	**543**	321	0.56	24820	42.91
450	102	0.18	5204	9.00	**497**	221	0.38	12531	21.67	**544**	287	0.50	25107	43.41
451	91	0.16	5295	9.16	**498**	222	0.38	12753	22.05	**545**	315	0.54	25422	43.96
452	108	0.19	5403	9.34	**499**	205	0.35	12958	22.40	**546**	336	0.58	25758	44.54
453	110	0.19	5513	9.53	**500**	213	0.37	13171	22.77	**547**	296	0.51	26054	45.05
454	106	0.18	5619	9.72	**501**	225	0.39	13396	23.16	**548**	314	0.54	26368	45.59
455	97	0.17	5716	9.88	**502**	246	0.43	13642	23.59	**549**	305	0.53	26673	46.12
456	131	0.23	5847	10.11	**503**	222	0.38	13864	23.97	**550**	320	0.55	26993	46.67
457	141	0.24	5988	10.35	**504**	241	0.42	14105	24.39	**551**	276	0.48	27269	47.15
458	112	0.19	6100	10.55	**505**	232	0.40	14337	24.79	**552**	332	0.57	27601	47.72
459	120	0.21	6220	10.75	**506**	229	0.40	14566	25.19	**553**	341	0.59	27942	48.31
460	115	0.20	6335	10.95	**507**	245	0.42	14811	25.61	**554**	311	0.54	28253	48.85
461	134	0.23	6469	11.19	**508**	256	0.44	15067	26.05	**555**	284	0.49	28537	49.34
462	129	0.22	6598	11.41	**509**	230	0.40	15297	26.45	**556**	302	0.52	28839	49.86
463	126	0.22	6724	11.63	**510**	278	0.48	15575	26.93	**557**	327	0.57	29166	50.43
464	126	0.22	6850	11.84	**511**	254	0.44	15829	27.37	**558**	304	0.53	29470	50.95
465	116	0.20	6966	12.04	**512**	261	0.45	16090	27.82	**559**	306	0.53	29776	51.48
466	148	0.26	7114	12.30	**513**	269	0.47	16359	28.29	**560**	301	0.52	30077	52.00
467	148	0.26	7262	12.56	**514**	257	0.44	16616	28.73	**561**	313	0.54	30390	52.55
468	134	0.23	7396	12.79	**515**	253	0.44	16869	29.17	**562**	326	0.56	30716	53.11
469	142	0.25	7538	13.03	**516**	270	0.47	17139	29.63	**563**	287	0.50	31003	53.61
470	128	0.22	7666	13.25	**517**	262	0.45	17401	30.09	**564**	335	0.58	31338	54.18
471	149	0.26	7815	13.51	**518**	257	0.44	17658	30.53	**565**	293	0.51	31631	54.69

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Table 178. Mathematics Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
566	316	0.55	31947	55.24	**613**	246	0.43	45802	79.19	**660**	121	0.21	54695	94.57
567	299	0.52	32246	55.75	**614**	251	0.43	46053	79.63	**661**	104	0.18	54799	94.75
568	304	0.53	32550	56.28	**615**	260	0.45	46313	80.08	**662**	95	0.16	54894	94.91
569	322	0.56	32872	56.84	**616**	250	0.43	46563	80.51	**663**	88	0.15	54982	95.07
570	329	0.57	33201	57.41	**617**	263	0.45	46826	80.96	**664**	109	0.19	55091	95.25
571	342	0.59	33543	58.00	**618**	218	0.38	47044	81.34	**665**	110	0.19	55201	95.44
572	335	0.58	33878	58.58	**619**	246	0.43	47290	81.77	**666**	108	0.19	55309	95.63
573	333	0.58	34211	59.15	**620**	225	0.39	47515	82.15	**667**	88	0.15	55397	95.78
574	360	0.62	34571	59.77	**621**	233	0.40	47748	82.56	**668**	93	0.16	55490	95.94
575	319	0.55	34890	60.33	**622**	265	0.46	48013	83.02	**669**	87	0.15	55577	96.09
576	338	0.58	35228	60.91	**623**	230	0.40	48243	83.41	**670**	85	0.15	55662	96.24
577	311	0.54	35539	61.45	**624**	209	0.36	48452	83.77	**671**	89	0.15	55751	96.39
578	306	0.53	35845	61.98	**625**	226	0.39	48678	84.17	**672**	60	0.10	55811	96.50
579	317	0.55	36162	62.53	**626**	210	0.36	48888	84.53	**673**	54	0.09	55865	96.59
580	303	0.52	36465	63.05	**627**	205	0.35	49093	84.88	**674**	88	0.15	55953	96.74
581	300	0.52	36765	63.57	**628**	218	0.38	49311	85.26	**675**	65	0.11	56018	96.86
582	326	0.56	37091	64.13	**629**	195	0.34	49506	85.60	**676**	80	0.14	56098	96.99
583	339	0.59	37430	64.72	**630**	230	0.40	49736	85.99	**677**	75	0.13	56173	97.12
584	325	0.56	37755	65.28	**631**	223	0.39	49959	86.38	**678**	64	0.11	56237	97.24
585	301	0.52	38056	65.80	**632**	197	0.34	50156	86.72	**679**	63	0.11	56300	97.34
586	263	0.45	38319	66.25	**633**	207	0.36	50363	87.08	**680**	54	0.09	56354	97.44
587	329	0.57	38648	66.82	**634**	194	0.34	50557	87.41	**681**	51	0.09	56405	97.53
588	260	0.45	38908	67.27	**635**	202	0.35	50759	87.76	**682**	60	0.10	56465	97.63
589	301	0.52	39209	67.79	**636**	201	0.35	50960	88.11	**683**	56	0.10	56521	97.73
590	304	0.53	39513	68.32	**637**	180	0.31	51140	88.42	**684**	59	0.10	56580	97.83
591	279	0.48	39792	68.80	**638**	180	0.31	51320	88.73	**685**	42	0.07	56622	97.90
592	317	0.55	40109	69.35	**639**	171	0.30	51491	89.03	**686**	54	0.09	56676	97.99
593	282	0.49	40391	69.84	**640**	183	0.32	51674	89.35	**687**	47	0.08	56723	98.08
594	294	0.51	40685	70.35	**641**	193	0.33	51867	89.68	**688**	47	0.08	56770	98.16
595	292	0.50	40977	70.85	**642**	176	0.30	52043	89.98	**689**	45	0.08	56815	98.23
596	310	0.54	41287	71.39	**643**	191	0.33	52234	90.31	**690**	48	0.08	56863	98.32
597	273	0.47	41560	71.86	**644**	185	0.32	52419	90.63	**691**	41	0.07	56904	98.39
598	278	0.48	41838	72.34	**645**	167	0.29	52586	90.92	**692**	32	0.06	56936	98.44
599	265	0.46	42103	72.80	**646**	165	0.29	52751	91.21	**693**	29	0.05	56965	98.49
600	280	0.48	42383	73.28	**647**	171	0.30	52922	91.50	**694**	37	0.06	57002	98.56
601	281	0.49	42664	73.77	**648**	174	0.30	53096	91.80	**695**	44	0.08	57046	98.63
602	280	0.48	42944	74.25	**649**	144	0.25	53240	92.05	**696**	40	0.07	57086	98.70
603	270	0.47	43214	74.72	**650**	157	0.27	53397	92.32	**697**	25	0.04	57111	98.75
604	293	0.51	43507	75.22	**651**	140	0.24	53537	92.57	**698**	40	0.07	57151	98.82
605	274	0.47	43781	75.70	**652**	140	0.24	53677	92.81	**699**	33	0.06	57184	98.87
606	292	0.50	44073	76.20	**653**	148	0.26	53825	93.06	**700**	24	0.04	57208	98.91
607	243	0.42	44316	76.62	**654**	142	0.25	53967	93.31	**701**	23	0.04	57231	98.95
608	233	0.40	44549	77.03	**655**	137	0.24	54104	93.55	**702**	21	0.04	57252	98.99
609	239	0.41	44788	77.44	**656**	121	0.21	54225	93.76	**703**	30	0.05	57282	99.04
610	238	0.41	45026	77.85	**657**	107	0.19	54332	93.94	**704**	24	0.04	57306	99.08
611	269	0.47	45295	78.32	**658**	131	0.23	54463	94.17	**705**	16	0.03	57322	99.11
612	261	0.45	45556	78.77	**659**	111	0.19	54574	94.36	**706**	23	0.04	57345	99.15

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Table 178. Mathematics Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
707	20	0.03	57365	99.19	**754**	2	0.00	57776	99.90
708	22	0.04	57387	99.22	**755**	3	0.01	57779	99.90
709	20	0.03	57407	99.26	**758**	2	0.00	57781	99.90
710	22	0.04	57429	99.30	**759**	7	0.01	57788	99.92
711	23	0.04	57452	99.34	**760**	3	0.01	57791	99.92
712	18	0.03	57470	99.37	**761**	1	0.00	57792	99.92
713	15	0.03	57485	99.39	**762**	2	0.00	57794	99.93
714	8	0.01	57493	99.41	**763**	2	0.00	57796	99.93
715	22	0.04	57515	99.44	**765**	1	0.00	57797	99.93
716	14	0.02	57529	99.47	**766**	2	0.00	57799	99.94
717	15	0.03	57544	99.50	**768**	3	0.01	57802	99.94
718	15	0.03	57559	99.52	**770**	1	0.00	57803	99.94
719	10	0.02	57569	99.54	**771**	2	0.00	57805	99.95
720	10	0.02	57579	99.56	**772**	4	0.01	57809	99.95
721	11	0.02	57590	99.57	**773**	3	0.01	57812	99.96
722	17	0.03	57607	99.60	**774**	3	0.01	57815	99.96
723	8	0.01	57615	99.62	**776**	1	0.00	57816	99.97
724	7	0.01	57622	99.63	**777**	1	0.00	57817	99.97
725	14	0.02	57636	99.65	**780**	1	0.00	57818	99.97
726	12	0.02	57648	99.67	**781**	1	0.00	57819	99.97
727	7	0.01	57655	99.69	**782**	1	0.00	57820	99.97
728	8	0.01	57663	99.70	**784**	1	0.00	57821	99.97
729	2	0.00	57665	99.70	**785**	1	0.00	57822	99.98
730	5	0.01	57670	99.71	**787**	1	0.00	57823	99.98
731	9	0.02	57679	99.73	**788**	1	0.00	57824	99.98
732	6	0.01	57685	99.74	**797**	2	0.00	57826	99.98
733	3	0.01	57688	99.74	**799**	1	0.00	57827	99.98
734	8	0.01	57696	99.76	**806**	1	0.00	57828	99.99
735	9	0.02	57705	99.77	**816**	1	0.00	57829	99.99
736	4	0.01	57709	99.78	**820**	3	0.01	57832	99.99
737	4	0.01	57713	99.79	**841**	2	0.00	57834	100
738	3	0.01	57716	99.79	**858**	1	0.00	57835	100
739	2	0.00	57718	99.80	**860**	1	0.00	57836	100
740	6	0.01	57724	99.81					
741	4	0.01	57728	99.81					
742	4	0.01	57732	99.82					
743	7	0.01	57739	99.83					
744	3	0.01	57742	99.84					
745	6	0.01	57748	99.85					
746	6	0.01	57754	99.86					
747	3	0.01	57757	99.86					
748	3	0.01	57760	99.87					
749	1	0.00	57761	99.87					
750	6	0.01	57767	99.88					
751	3	0.01	57770	99.89					
752	1	0.00	57771	99.89					
753	3	0.01	57774	99.89					

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Table 179. Reading Grade 8 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
330	131	0.23	131	0.23	**409**	1	0.00	209	0.37	**458**	7	0.01	409	0.72
334	1	0.00	132	0.23	**410**	3	0.01	212	0.37	**459**	8	0.01	417	0.73
339	1	0.00	133	0.23	**411**	1	0.00	213	0.37	**460**	9	0.02	426	0.75
341	1	0.00	134	0.23	**412**	2	0.00	215	0.38	**461**	6	0.01	432	0.76
343	1	0.00	135	0.24	**413**	4	0.01	219	0.38	**462**	5	0.01	437	0.76
350	1	0.00	136	0.24	**414**	2	0.00	221	0.39	**463**	9	0.02	446	0.78
356	1	0.00	137	0.24	**415**	2	0.00	223	0.39	**464**	5	0.01	451	0.79
357	1	0.00	138	0.24	**416**	1	0.00	224	0.39	**465**	13	0.02	464	0.81
358	2	0.00	140	0.25	**417**	6	0.01	230	0.40	**466**	8	0.01	472	0.83
360	1	0.00	141	0.25	**418**	4	0.01	234	0.41	**467**	2	0.00	474	0.83
362	1	0.00	142	0.25	**419**	2	0.00	236	0.41	**468**	8	0.01	482	0.84
365	1	0.00	143	0.25	**420**	1	0.00	237	0.41	**469**	14	0.02	496	0.87
366	2	0.00	145	0.25	**421**	6	0.01	243	0.43	**470**	16	0.03	512	0.90
367	2	0.00	147	0.26	**422**	2	0.00	245	0.43	**471**	15	0.03	527	0.92
368	2	0.00	149	0.26	**423**	4	0.01	249	0.44	**472**	16	0.03	543	0.95
371	1	0.00	150	0.26	**424**	4	0.01	253	0.44	**473**	8	0.01	551	0.96
372	3	0.01	153	0.27	**425**	1	0.00	254	0.44	**474**	13	0.02	564	0.99
374	2	0.00	155	0.27	**427**	4	0.01	258	0.45	**475**	4	0.01	568	0.99
375	1	0.00	156	0.27	**428**	1	0.00	259	0.45	**476**	14	0.02	582	1.02
378	2	0.00	158	0.28	**429**	2	0.00	261	0.46	**477**	8	0.01	590	1.03
379	1	0.00	159	0.28	**430**	7	0.01	268	0.47	**478**	9	0.02	599	1.05
380	1	0.00	160	0.28	**431**	6	0.01	274	0.48	**479**	12	0.02	611	1.07
381	2	0.00	162	0.28	**432**	4	0.01	278	0.49	**480**	8	0.01	619	1.08
382	1	0.00	163	0.29	**434**	5	0.01	283	0.50	**481**	14	0.02	633	1.11
383	1	0.00	164	0.29	**435**	6	0.01	289	0.51	**482**	15	0.03	648	1.13
384	1	0.00	165	0.29	**436**	7	0.01	296	0.52	**483**	11	0.02	659	1.15
385	1	0.00	166	0.29	**437**	4	0.01	300	0.53	**484**	13	0.02	672	1.18
386	1	0.00	167	0.29	**438**	5	0.01	305	0.53	**485**	10	0.02	682	1.19
387	1	0.00	168	0.29	**439**	6	0.01	311	0.54	**486**	21	0.04	703	1.23
388	3	0.01	171	0.30	**440**	4	0.01	315	0.55	**487**	21	0.04	724	1.27
389	2	0.00	173	0.30	**441**	5	0.01	320	0.56	**488**	12	0.02	736	1.29
390	2	0.00	175	0.31	**442**	5	0.01	325	0.57	**489**	27	0.05	763	1.34
391	2	0.00	177	0.31	**443**	4	0.01	329	0.58	**490**	19	0.03	782	1.37
392	3	0.01	180	0.32	**444**	6	0.01	335	0.59	**491**	25	0.04	807	1.41
393	1	0.00	181	0.32	**445**	4	0.01	339	0.59	**492**	23	0.04	830	1.45
395	4	0.01	185	0.32	**446**	2	0.00	341	0.60	**493**	26	0.05	856	1.50
396	1	0.00	186	0.33	**447**	4	0.01	345	0.60	**494**	16	0.03	872	1.53
397	1	0.00	187	0.33	**448**	1	0.00	346	0.61	**495**	26	0.05	898	1.57
398	3	0.01	190	0.33	**449**	7	0.01	353	0.62	**496**	20	0.04	918	1.61
401	1	0.00	191	0.33	**450**	6	0.01	359	0.63	**497**	31	0.05	949	1.66
402	2	0.00	193	0.34	**451**	7	0.01	366	0.64	**498**	21	0.04	970	1.70
403	2	0.00	195	0.34	**452**	5	0.01	371	0.65	**499**	24	0.04	994	1.74
404	1	0.00	196	0.34	**453**	5	0.01	376	0.66	**500**	32	0.06	1026	1.80
405	4	0.01	200	0.35	**454**	2	0.00	378	0.66	**501**	23	0.04	1049	1.84
406	5	0.01	205	0.36	**455**	10	0.02	388	0.68	**502**	21	0.04	1070	1.87
407	1	0.00	206	0.36	**456**	6	0.01	394	0.69	**503**	21	0.04	1091	1.91
408	2	0.00	208	0.36	**457**	8	0.01	402	0.70	**504**	33	0.06	1124	1.97

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Table 179. Reading Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
505	23	0.04	1147	2.01	**552**	68	0.12	3382	5.92	**599**	175	0.31	9307	16.29
506	29	0.05	1176	2.06	**553**	73	0.13	3455	6.05	**600**	222	0.39	9529	16.68
507	35	0.06	1211	2.12	**554**	81	0.14	3536	6.19	**601**	186	0.33	9715	17.01
508	32	0.06	1243	2.18	**555**	82	0.14	3618	6.33	**602**	203	0.36	9918	17.36
509	31	0.05	1274	2.23	**556**	81	0.14	3699	6.47	**603**	234	0.41	10152	17.77
510	31	0.05	1305	2.28	**557**	98	0.17	3797	6.65	**604**	212	0.37	10364	18.14
511	24	0.04	1329	2.33	**558**	70	0.12	3867	6.77	**605**	195	0.34	10559	18.48
512	25	0.04	1354	2.37	**559**	71	0.12	3938	6.89	**606**	209	0.37	10768	18.85
513	30	0.05	1384	2.42	**560**	97	0.17	4035	7.06	**607**	201	0.35	10969	19.20
514	39	0.07	1423	2.49	**561**	107	0.19	4142	7.25	**608**	230	0.40	11199	19.60
515	30	0.05	1453	2.54	**562**	98	0.17	4240	7.42	**609**	219	0.38	11418	19.99
516	38	0.07	1491	2.61	**563**	97	0.17	4337	7.59	**610**	232	0.41	11650	20.39
517	38	0.07	1529	2.68	**564**	80	0.14	4417	7.73	**611**	249	0.44	11899	20.83
518	43	0.08	1572	2.75	**565**	100	0.18	4517	7.91	**612**	218	0.38	12117	21.21
519	39	0.07	1611	2.82	**566**	96	0.17	4613	8.07	**613**	252	0.44	12369	21.65
520	40	0.07	1651	2.89	**567**	105	0.18	4718	8.26	**614**	268	0.47	12637	22.12
521	39	0.07	1690	2.96	**568**	112	0.20	4830	8.45	**615**	257	0.45	12894	22.57
522	39	0.07	1729	3.03	**569**	102	0.18	4932	8.63	**616**	268	0.47	13162	23.04
523	44	0.08	1773	3.10	**570**	117	0.20	5049	8.84	**617**	274	0.48	13436	23.52
524	46	0.08	1819	3.18	**571**	106	0.19	5155	9.02	**618**	270	0.47	13706	23.99
525	38	0.07	1857	3.25	**572**	118	0.21	5273	9.23	**619**	292	0.51	13998	24.50
526	50	0.09	1907	3.34	**573**	124	0.22	5397	9.45	**620**	287	0.50	14285	25.00
527	43	0.08	1950	3.41	**574**	115	0.20	5512	9.65	**621**	298	0.52	14583	25.53
528	36	0.06	1986	3.48	**575**	135	0.24	5647	9.88	**622**	291	0.51	14874	26.04
529	45	0.08	2031	3.56	**576**	132	0.23	5779	10.12	**623**	318	0.56	15192	26.59
530	44	0.08	2075	3.63	**577**	130	0.23	5909	10.34	**624**	305	0.53	15497	27.13
531	50	0.09	2125	3.72	**578**	132	0.23	6041	10.57	**625**	279	0.49	15776	27.61
532	50	0.09	2175	3.81	**579**	113	0.20	6154	10.77	**626**	332	0.58	16108	28.20
533	52	0.09	2227	3.90	**580**	129	0.23	6283	11.00	**627**	329	0.58	16437	28.77
534	60	0.11	2287	4.00	**581**	149	0.26	6432	11.26	**628**	317	0.55	16754	29.33
535	54	0.09	2341	4.10	**582**	139	0.24	6571	11.50	**629**	325	0.57	17079	29.89
536	54	0.09	2395	4.19	**583**	136	0.24	6707	11.74	**630**	357	0.62	17436	30.52
537	51	0.09	2446	4.28	**584**	140	0.25	6847	11.98	**631**	311	0.54	17747	31.06
538	58	0.10	2504	4.38	**585**	145	0.25	6992	12.24	**632**	313	0.55	18060	31.61
539	55	0.10	2559	4.48	**586**	149	0.26	7141	12.50	**633**	350	0.61	18410	32.22
540	53	0.09	2612	4.57	**587**	134	0.23	7275	12.73	**634**	348	0.61	18758	32.83
541	56	0.10	2668	4.67	**588**	161	0.28	7436	13.02	**635**	361	0.63	19119	33.47
542	68	0.12	2736	4.79	**589**	145	0.25	7581	13.27	**636**	363	0.64	19482	34.10
543	59	0.10	2795	4.89	**590**	170	0.30	7751	13.57	**637**	396	0.69	19878	34.79
544	66	0.12	2861	5.01	**591**	175	0.31	7926	13.87	**638**	382	0.67	20260	35.46
545	61	0.11	2922	5.11	**592**	148	0.26	8074	14.13	**639**	381	0.67	20641	36.13
546	51	0.09	2973	5.20	**593**	166	0.29	8240	14.42	**640**	339	0.59	20980	36.72
547	64	0.11	3037	5.32	**594**	154	0.27	8394	14.69	**641**	373	0.65	21353	37.38
548	73	0.13	3110	5.44	**595**	188	0.33	8582	15.02	**642**	391	0.68	21744	38.06
549	75	0.13	3185	5.58	**596**	176	0.31	8758	15.33	**643**	362	0.63	22106	38.69
550	67	0.12	3252	5.69	**597**	198	0.35	8956	15.68	**644**	419	0.73	22525	39.43
551	62	0.11	3314	5.80	**598**	176	0.31	9132	15.98	**645**	412	0.72	22937	40.15

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Table 179. Reading Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
646	382	0.67	23319	40.82	**693**	395	0.69	43242	75.69	**740**	119	0.21	54916	96.12
647	431	0.75	23750	41.57	**694**	392	0.69	43634	76.38	**741**	99	0.17	55015	96.30
648	411	0.72	24161	42.29	**695**	348	0.61	43982	76.99	**742**	94	0.16	55109	96.46
649	385	0.67	24546	42.97	**696**	347	0.61	44329	77.59	**743**	90	0.16	55199	96.62
650	454	0.79	25000	43.76	**697**	346	0.61	44675	78.20	**744**	102	0.18	55301	96.80
651	432	0.76	25432	44.52	**698**	369	0.65	45044	78.84	**745**	84	0.15	55385	96.95
652	437	0.76	25869	45.28	**699**	366	0.64	45410	79.49	**746**	83	0.15	55468	97.09
653	409	0.72	26278	46.00	**700**	363	0.64	45773	80.12	**747**	91	0.16	55559	97.25
654	408	0.71	26686	46.71	**701**	352	0.62	46125	80.74	**748**	78	0.14	55637	97.39
655	445	0.78	27131	47.49	**702**	303	0.53	46428	81.27	**749**	73	0.13	55710	97.51
656	440	0.77	27571	48.26	**703**	334	0.58	46762	81.85	**750**	81	0.14	55791	97.66
657	429	0.75	28000	49.01	**704**	349	0.61	47111	82.46	**751**	84	0.15	55875	97.80
658	451	0.79	28451	49.80	**705**	333	0.58	47444	83.05	**752**	79	0.14	55954	97.94
659	449	0.79	28900	50.59	**706**	317	0.55	47761	83.60	**753**	61	0.11	56015	98.05
660	426	0.75	29326	51.33	**707**	279	0.49	48040	84.09	**754**	62	0.11	56077	98.16
661	420	0.74	29746	52.07	**708**	287	0.50	48327	84.59	**755**	48	0.08	56125	98.24
662	438	0.77	30184	52.83	**709**	282	0.49	48609	85.08	**756**	58	0.10	56183	98.34
663	445	0.78	30629	53.61	**710**	315	0.55	48924	85.64	**757**	52	0.09	56235	98.43
664	407	0.71	31036	54.33	**711**	280	0.49	49204	86.13	**758**	59	0.10	56294	98.54
665	445	0.78	31481	55.10	**712**	282	0.49	49486	86.62	**759**	39	0.07	56333	98.60
666	414	0.72	31895	55.83	**713**	270	0.47	49756	87.09	**760**	42	0.07	56375	98.68
667	442	0.77	32337	56.60	**714**	250	0.44	50006	87.53	**761**	47	0.08	56422	98.76
668	463	0.81	32800	57.41	**715**	248	0.43	50254	87.96	**762**	47	0.08	56469	98.84
669	446	0.78	33246	58.19	**716**	285	0.50	50539	88.46	**763**	52	0.09	56521	98.93
670	465	0.81	33711	59.01	**717**	240	0.42	50779	88.88	**764**	34	0.06	56555	98.99
671	428	0.75	34139	59.76	**718**	239	0.42	51018	89.30	**765**	28	0.05	56583	99.04
672	475	0.83	34614	60.59	**719**	261	0.46	51279	89.76	**766**	38	0.07	56621	99.11
673	423	0.74	35037	61.33	**720**	248	0.43	51527	90.19	**767**	34	0.06	56655	99.17
674	440	0.77	35477	62.10	**721**	239	0.42	51766	90.61	**768**	26	0.05	56681	99.21
675	457	0.80	35934	62.90	**722**	194	0.34	51960	90.95	**769**	22	0.04	56703	99.25
676	433	0.76	36367	63.66	**723**	230	0.40	52190	91.35	**770**	27	0.05	56730	99.30
677	476	0.83	36843	64.49	**724**	182	0.32	52372	91.67	**771**	29	0.05	56759	99.35
678	438	0.77	37281	65.26	**725**	208	0.36	52580	92.04	**772**	31	0.05	56790	99.40
679	402	0.70	37683	65.96	**726**	188	0.33	52768	92.36	**773**	23	0.04	56813	99.45
680	439	0.77	38122	66.73	**727**	201	0.35	52969	92.72	**774**	23	0.04	56836	99.49
681	380	0.67	38502	67.39	**728**	174	0.30	53143	93.02	**775**	16	0.03	56852	99.51
682	387	0.68	38889	68.07	**729**	210	0.37	53353	93.39	**776**	14	0.02	56866	99.54
683	370	0.65	39259	68.72	**730**	170	0.30	53523	93.69	**777**	15	0.03	56881	99.56
684	447	0.78	39706	69.50	**731**	162	0.28	53685	93.97	**778**	16	0.03	56897	99.59
685	424	0.74	40130	70.24	**732**	169	0.30	53854	94.27	**779**	12	0.02	56909	99.61
686	425	0.74	40555	70.99	**733**	152	0.27	54006	94.53	**780**	18	0.03	56927	99.64
687	375	0.66	40930	71.64	**734**	153	0.27	54159	94.80	**781**	9	0.02	56936	99.66
688	391	0.68	41321	72.33	**735**	136	0.24	54295	95.04	**782**	10	0.02	56946	99.68
689	393	0.69	41714	73.02	**736**	117	0.20	54412	95.24	**783**	14	0.02	56960	99.70
690	392	0.69	42106	73.70	**737**	143	0.25	54555	95.49	**784**	10	0.02	56970	99.72
691	364	0.64	42470	74.34	**738**	124	0.22	54679	95.71	**785**	14	0.02	56984	99.74
692	377	0.66	42847	75.00	**739**	118	0.21	54797	95.92	**786**	6	0.01	56990	99.75

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Table 179. Reading Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
787	2	0.00	56992	99.76
788	5	0.01	56997	99.77
789	9	0.02	57006	99.78
790	8	0.01	57014	99.80
791	5	0.01	57019	99.81
792	8	0.01	57027	99.82
793	10	0.02	57037	99.84
794	4	0.01	57041	99.84
795	6	0.01	57047	99.85
796	6	0.01	57053	99.87
797	5	0.01	57058	99.87
798	4	0.01	57062	99.88
799	4	0.01	57066	99.89
800	5	0.01	57071	99.90
801	1	0.00	57072	99.90
802	4	0.01	57076	99.91
804	6	0.01	57082	99.92
805	5	0.01	57087	99.92
806	4	0.01	57091	99.93
807	2	0.00	57093	99.94
808	5	0.01	57098	99.94
810	2	0.00	57100	99.95
811	2	0.00	57102	99.95
812	4	0.01	57106	99.96
813	2	0.00	57108	99.96
814	1	0.00	57109	99.96
816	1	0.00	57110	99.96
817	1	0.00	57111	99.97
818	1	0.00	57112	99.97
819	1	0.00	57113	99.97
822	1	0.00	57114	99.97
825	2	0.00	57116	99.98
826	2	0.00	57118	99.98
827	1	0.00	57119	99.98
830	1	0.00	57120	99.98
831	1	0.00	57121	99.98
835	1	0.00	57122	99.99
837	1	0.00	57123	99.99
843	1	0.00	57124	99.99
844	1	0.00	57125	99.99
846	1	0.00	57126	99.99
847	1	0.00	57127	99.99
848	1	0.00	57128	100
854	1	0.00	57129	100
865	1	0.00	57130	100

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Table 180. Writing Grade 8 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
250	23	0.04	23	0.04	**333**	4	0.01	106	0.19	**381**	12	0.02	389	0.68
254	1	0.00	24	0.04	**335**	4	0.01	110	0.19	**382**	6	0.01	395	0.69
255	1	0.00	25	0.04	**336**	3	0.01	113	0.20	**383**	19	0.03	414	0.73
257	2	0.00	27	0.05	**337**	3	0.01	116	0.20	**384**	12	0.02	426	0.75
260	1	0.00	28	0.05	**338**	3	0.01	119	0.21	**385**	9	0.02	435	0.76
261	2	0.00	30	0.05	**339**	3	0.01	122	0.21	**386**	10	0.02	445	0.78
262	1	0.00	31	0.05	**340**	4	0.01	126	0.22	**387**	19	0.03	464	0.81
266	2	0.00	33	0.06	**341**	3	0.01	129	0.23	**388**	13	0.02	477	0.84
271	2	0.00	35	0.06	**342**	4	0.01	133	0.23	**389**	21	0.04	498	0.87
273	1	0.00	36	0.06	**343**	3	0.01	136	0.24	**390**	20	0.04	518	0.91
275	1	0.00	37	0.06	**344**	3	0.01	139	0.24	**391**	24	0.04	542	0.95
277	2	0.00	39	0.07	**345**	4	0.01	143	0.25	**392**	14	0.02	556	0.97
283	3	0.01	42	0.07	**346**	3	0.01	146	0.26	**393**	14	0.02	570	1.00
286	1	0.00	43	0.08	**347**	5	0.01	151	0.26	**394**	17	0.03	587	1.03
289	1	0.00	44	0.08	**348**	5	0.01	156	0.27	**395**	18	0.03	605	1.06
295	1	0.00	45	0.08	**349**	5	0.01	161	0.28	**396**	19	0.03	624	1.09
297	5	0.01	50	0.09	**350**	3	0.01	164	0.29	**397**	22	0.04	646	1.13
299	1	0.00	51	0.09	**351**	4	0.01	168	0.29	**398**	21	0.04	667	1.17
300	1	0.00	52	0.09	**352**	3	0.01	171	0.30	**399**	21	0.04	688	1.20
301	2	0.00	54	0.09	**353**	3	0.01	174	0.30	**400**	17	0.03	705	1.23
302	1	0.00	55	0.10	**354**	5	0.01	179	0.31	**401**	25	0.04	730	1.28
303	1	0.00	56	0.10	**355**	6	0.01	185	0.32	**402**	18	0.03	748	1.31
304	2	0.00	58	0.10	**356**	8	0.01	193	0.34	**403**	33	0.06	781	1.37
305	1	0.00	59	0.10	**357**	3	0.01	196	0.34	**404**	30	0.05	811	1.42
307	1	0.00	60	0.11	**358**	6	0.01	202	0.35	**405**	27	0.05	838	1.47
308	1	0.00	61	0.11	**359**	3	0.01	205	0.36	**406**	25	0.04	863	1.51
309	1	0.00	62	0.11	**360**	2	0.00	207	0.36	**407**	25	0.04	888	1.56
310	3	0.01	65	0.11	**361**	6	0.01	213	0.37	**408**	35	0.06	923	1.62
311	1	0.00	66	0.12	**362**	7	0.01	220	0.39	**409**	34	0.06	957	1.68
312	1	0.00	67	0.12	**363**	6	0.01	226	0.40	**410**	29	0.05	986	1.73
313	2	0.00	69	0.12	**364**	7	0.01	233	0.41	**411**	24	0.04	1010	1.77
314	1	0.00	70	0.12	**365**	5	0.01	238	0.42	**412**	21	0.04	1031	1.81
315	3	0.01	73	0.13	**366**	8	0.01	246	0.43	**413**	29	0.05	1060	1.86
317	3	0.01	76	0.13	**367**	9	0.02	255	0.45	**414**	26	0.05	1086	1.90
319	1	0.00	77	0.13	**368**	2	0.00	257	0.45	**415**	42	0.07	1128	1.98
320	2	0.00	79	0.14	**369**	8	0.01	265	0.46	**416**	36	0.06	1164	2.04
321	2	0.00	81	0.14	**370**	9	0.02	274	0.48	**417**	33	0.06	1197	2.10
322	2	0.00	83	0.15	**371**	3	0.01	277	0.49	**418**	29	0.05	1226	2.15
323	4	0.01	87	0.15	**372**	9	0.02	286	0.50	**419**	46	0.08	1272	2.23
325	1	0.00	88	0.15	**373**	8	0.01	294	0.51	**420**	47	0.08	1319	2.31
326	2	0.00	90	0.16	**374**	12	0.02	306	0.54	**421**	48	0.08	1367	2.39
327	1	0.00	91	0.16	**375**	16	0.03	322	0.56	**422**	40	0.07	1407	2.46
328	3	0.01	94	0.16	**376**	6	0.01	328	0.57	**423**	48	0.08	1455	2.55
329	2	0.00	96	0.17	**377**	10	0.02	338	0.59	**424**	43	0.08	1498	2.62
330	2	0.00	98	0.17	**378**	14	0.02	352	0.62	**425**	43	0.08	1541	2.70
331	1	0.00	99	0.17	**379**	15	0.03	367	0.64	**426**	62	0.11	1603	2.81
332	3	0.01	102	0.18	**380**	10	0.02	377	0.66	**427**	47	0.08	1650	2.89

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Table 180. Writing Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
428	49	0.09	1699	2.98	**475**	145	0.25	5801	10.16	**522**	275	0.48	15111	26.46
429	46	0.08	1745	3.06	**476**	140	0.25	5941	10.40	**523**	278	0.49	15389	26.95
430	38	0.07	1783	3.12	**477**	147	0.26	6088	10.66	**524**	278	0.49	15667	27.44
431	63	0.11	1846	3.23	**478**	129	0.23	6217	10.89	**525**	274	0.48	15941	27.92
432	49	0.09	1895	3.32	**479**	134	0.23	6351	11.12	**526**	272	0.48	16213	28.39
433	64	0.11	1959	3.43	**480**	152	0.27	6503	11.39	**527**	274	0.48	16487	28.87
434	58	0.10	2017	3.53	**481**	149	0.26	6652	11.65	**528**	267	0.47	16754	29.34
435	61	0.11	2078	3.64	**482**	138	0.24	6790	11.89	**529**	281	0.49	17035	29.83
436	51	0.09	2129	3.73	**483**	160	0.28	6950	12.17	**530**	288	0.50	17323	30.34
437	63	0.11	2192	3.84	**484**	168	0.29	7118	12.47	**531**	287	0.50	17610	30.84
438	54	0.09	2246	3.93	**485**	139	0.24	7257	12.71	**532**	286	0.50	17896	31.34
439	58	0.10	2304	4.03	**486**	159	0.28	7416	12.99	**533**	299	0.52	18195	31.86
440	67	0.12	2371	4.15	**487**	170	0.30	7586	13.28	**534**	316	0.55	18511	32.42
441	61	0.11	2432	4.26	**488**	174	0.30	7760	13.59	**535**	313	0.55	18824	32.96
442	72	0.13	2504	4.39	**489**	164	0.29	7924	13.88	**536**	316	0.55	19140	33.52
443	77	0.13	2581	4.52	**490**	183	0.32	8107	14.20	**537**	313	0.55	19453	34.07
444	48	0.08	2629	4.60	**491**	156	0.27	8263	14.47	**538**	288	0.50	19741	34.57
445	87	0.15	2716	4.76	**492**	161	0.28	8424	14.75	**539**	291	0.51	20032	35.08
446	85	0.15	2801	4.91	**493**	170	0.30	8594	15.05	**540**	322	0.56	20354	35.64
447	81	0.14	2882	5.05	**494**	203	0.36	8797	15.41	**541**	325	0.57	20679	36.21
448	72	0.13	2954	5.17	**495**	209	0.37	9006	15.77	**542**	291	0.51	20970	36.72
449	81	0.14	3035	5.31	**496**	181	0.32	9187	16.09	**543**	290	0.51	21260	37.23
450	72	0.13	3107	5.44	**497**	177	0.31	9364	16.40	**544**	322	0.56	21582	37.79
451	96	0.17	3203	5.61	**498**	175	0.31	9539	16.70	**545**	326	0.57	21908	38.37
452	71	0.12	3274	5.73	**499**	172	0.30	9711	17.01	**546**	322	0.56	22230	38.93
453	75	0.13	3349	5.86	**500**	186	0.33	9897	17.33	**547**	330	0.58	22560	39.51
454	72	0.13	3421	5.99	**501**	228	0.40	10125	17.73	**548**	352	0.62	22912	40.12
455	107	0.19	3528	6.18	**502**	207	0.36	10332	18.09	**549**	352	0.62	23264	40.74
456	93	0.16	3621	6.34	**503**	193	0.34	10525	18.43	**550**	338	0.59	23602	41.33
457	86	0.15	3707	6.49	**504**	207	0.36	10732	18.79	**551**	323	0.57	23925	41.90
458	109	0.19	3816	6.68	**505**	222	0.39	10954	19.18	**552**	331	0.58	24256	42.48
459	96	0.17	3912	6.85	**506**	202	0.35	11156	19.54	**553**	337	0.59	24593	43.07
460	124	0.22	4036	7.07	**507**	217	0.38	11373	19.92	**554**	336	0.59	24929	43.66
461	103	0.18	4139	7.25	**508**	221	0.39	11594	20.30	**555**	337	0.59	25266	44.25
462	111	0.19	4250	7.44	**509**	228	0.40	11822	20.70	**556**	384	0.67	25650	44.92
463	102	0.18	4352	7.62	**510**	237	0.42	12059	21.12	**557**	336	0.59	25986	45.51
464	103	0.18	4455	7.80	**511**	238	0.42	12297	21.53	**558**	306	0.54	26292	46.04
465	106	0.19	4561	7.99	**512**	213	0.37	12510	21.91	**559**	318	0.56	26610	46.60
466	117	0.20	4678	8.19	**513**	228	0.40	12738	22.31	**560**	336	0.59	26946	47.19
467	104	0.18	4782	8.37	**514**	243	0.43	12981	22.73	**561**	351	0.61	27297	47.80
468	116	0.20	4898	8.58	**515**	260	0.46	13241	23.19	**562**	329	0.58	27626	48.38
469	120	0.21	5018	8.79	**516**	239	0.42	13480	23.61	**563**	350	0.61	27976	48.99
470	141	0.25	5159	9.03	**517**	234	0.41	13714	24.02	**564**	361	0.63	28337	49.62
471	115	0.20	5274	9.24	**518**	281	0.49	13995	24.51	**565**	360	0.63	28697	50.25
472	131	0.23	5405	9.47	**519**	261	0.46	14256	24.97	**566**	339	0.59	29036	50.85
473	120	0.21	5525	9.68	**520**	300	0.53	14556	25.49	**567**	279	0.49	29315	51.34
474	131	0.23	5656	9.90	**521**	280	0.49	14836	25.98	**568**	326	0.57	29641	51.91

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Table 180. Writing Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
569	350	0.61	29991	52.52	**616**	239	0.42	44195	77.40	**663**	97	0.17	52698	92.29
570	345	0.60	30336	53.13	**617**	238	0.42	44433	77.81	**664**	123	0.22	52821	92.50
571	333	0.58	30669	53.71	**618**	249	0.44	44682	78.25	**665**	115	0.20	52936	92.70
572	327	0.57	30996	54.28	**619**	237	0.42	44919	78.66	**666**	99	0.17	53035	92.88
573	328	0.57	31324	54.86	**620**	237	0.42	45156	79.08	**667**	105	0.18	53140	93.06
574	321	0.56	31645	55.42	**621**	247	0.43	45403	79.51	**668**	112	0.20	53252	93.26
575	329	0.58	31974	55.99	**622**	217	0.38	45620	79.89	**669**	102	0.18	53354	93.43
576	328	0.57	32302	56.57	**623**	228	0.40	45848	80.29	**670**	96	0.17	53450	93.60
577	359	0.63	32661	57.20	**624**	256	0.45	46104	80.74	**671**	102	0.18	53552	93.78
578	308	0.54	32969	57.74	**625**	231	0.40	46335	81.14	**672**	94	0.16	53646	93.95
579	332	0.58	33301	58.32	**626**	198	0.35	46533	81.49	**673**	91	0.16	53737	94.11
580	346	0.61	33647	58.92	**627**	196	0.34	46729	81.83	**674**	99	0.17	53836	94.28
581	311	0.54	33958	59.47	**628**	212	0.37	46941	82.20	**675**	79	0.14	53915	94.42
582	320	0.56	34278	60.03	**629**	208	0.36	47149	82.57	**676**	95	0.17	54010	94.58
583	319	0.56	34597	60.59	**630**	207	0.36	47356	82.93	**677**	100	0.18	54110	94.76
584	380	0.67	34977	61.25	**631**	214	0.37	47570	83.31	**678**	108	0.19	54218	94.95
585	322	0.56	35299	61.82	**632**	198	0.35	47768	83.65	**679**	74	0.13	54292	95.08
586	328	0.57	35627	62.39	**633**	214	0.37	47982	84.03	**680**	99	0.17	54391	95.25
587	307	0.54	35934	62.93	**634**	193	0.34	48175	84.37	**681**	77	0.13	54468	95.39
588	313	0.55	36247	63.48	**635**	182	0.32	48357	84.68	**682**	70	0.12	54538	95.51
589	342	0.60	36589	64.08	**636**	210	0.37	48567	85.05	**683**	58	0.10	54596	95.61
590	304	0.53	36893	64.61	**637**	184	0.32	48751	85.37	**684**	69	0.12	54665	95.73
591	318	0.56	37211	65.16	**638**	196	0.34	48947	85.72	**685**	67	0.12	54732	95.85
592	317	0.56	37528	65.72	**639**	166	0.29	49113	86.01	**686**	46	0.08	54778	95.93
593	300	0.53	37828	66.25	**640**	191	0.33	49304	86.34	**687**	69	0.12	54847	96.05
594	302	0.53	38130	66.77	**641**	169	0.30	49473	86.64	**688**	69	0.12	54916	96.17
595	291	0.51	38421	67.28	**642**	199	0.35	49672	86.99	**689**	59	0.10	54975	96.27
596	318	0.56	38739	67.84	**643**	167	0.29	49839	87.28	**690**	44	0.08	55019	96.35
597	303	0.53	39042	68.37	**644**	150	0.26	49989	87.54	**691**	45	0.08	55064	96.43
598	311	0.54	39353	68.92	**645**	163	0.29	50152	87.83	**692**	62	0.11	55126	96.54
599	294	0.51	39647	69.43	**646**	162	0.28	50314	88.11	**693**	55	0.10	55181	96.63
600	290	0.51	39937	69.94	**647**	163	0.29	50477	88.40	**694**	49	0.09	55230	96.72
601	280	0.49	40217	70.43	**648**	161	0.28	50638	88.68	**695**	53	0.09	55283	96.81
602	282	0.49	40499	70.92	**649**	168	0.29	50806	88.97	**696**	45	0.08	55328	96.89
603	313	0.55	40812	71.47	**650**	161	0.28	50967	89.25	**697**	56	0.10	55384	96.99
604	297	0.52	41109	71.99	**651**	178	0.31	51145	89.57	**698**	50	0.09	55434	97.08
605	272	0.48	41381	72.47	**652**	159	0.28	51304	89.84	**699**	68	0.12	55502	97.20
606	284	0.50	41665	72.96	**653**	135	0.24	51439	90.08	**700**	52	0.09	55554	97.29
607	288	0.50	41953	73.47	**654**	142	0.25	51581	90.33	**701**	44	0.08	55598	97.36
608	257	0.45	42210	73.92	**655**	113	0.20	51694	90.53	**702**	40	0.07	55638	97.43
609	240	0.42	42450	74.34	**656**	127	0.22	51821	90.75	**703**	37	0.06	55675	97.50
610	285	0.50	42735	74.84	**657**	142	0.25	51963	91.00	**704**	42	0.07	55717	97.57
611	240	0.42	42975	75.26	**658**	120	0.21	52083	91.21	**705**	44	0.08	55761	97.65
612	225	0.39	43200	75.65	**659**	112	0.20	52195	91.41	**706**	41	0.07	55802	97.72
613	253	0.44	43453	76.10	**660**	143	0.25	52338	91.66	**707**	35	0.06	55837	97.78
614	264	0.46	43717	76.56	**661**	144	0.25	52482	91.91	**708**	28	0.05	55865	97.83
615	239	0.42	43956	76.98	**662**	119	0.21	52601	92.12	**709**	29	0.05	55894	97.88

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Table 180. Writing Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
710	39	0.07	55933	97.95	**757**	6	0.01	56812	99.49
711	56	0.10	55989	98.05	**758**	3	0.01	56815	99.50
712	22	0.04	56011	98.09	**759**	2	0.00	56817	99.50
713	44	0.08	56055	98.16	**760**	14	0.02	56831	99.52
714	39	0.07	56094	98.23	**761**	2	0.00	56833	99.53
715	27	0.05	56121	98.28	**762**	8	0.01	56841	99.54
716	24	0.04	56145	98.32	**763**	4	0.01	56845	99.55
717	22	0.04	56167	98.36	**764**	3	0.01	56848	99.55
718	36	0.06	56203	98.42	**765**	3	0.01	56851	99.56
719	26	0.05	56229	98.47	**766**	1	0.00	56852	99.56
720	30	0.05	56259	98.52	**767**	5	0.01	56857	99.57
721	16	0.03	56275	98.55	**768**	1	0.00	56858	99.57
722	30	0.05	56305	98.60	**769**	1	0.00	56859	99.57
723	13	0.02	56318	98.63	**771**	3	0.01	56862	99.58
724	15	0.03	56333	98.65	**773**	3	0.01	56865	99.58
725	15	0.03	56348	98.68	**775**	5	0.01	56870	99.59
726	32	0.06	56380	98.73	**776**	28	0.05	56898	99.64
727	34	0.06	56414	98.79	**777**	3	0.01	56901	99.65
728	40	0.07	56454	98.86	**778**	22	0.04	56923	99.68
729	19	0.03	56473	98.90	**779**	2	0.00	56925	99.69
730	16	0.03	56489	98.92	**780**	30	0.05	56955	99.74
731	20	0.04	56509	98.96	**781**	5	0.01	56960	99.75
732	11	0.02	56520	98.98	**782**	1	0.00	56961	99.75
733	5	0.01	56525	98.99	**783**	4	0.01	56965	99.76
734	10	0.02	56535	99.01	**784**	5	0.01	56970	99.77
735	17	0.03	56552	99.04	**787**	6	0.01	56976	99.78
736	12	0.02	56564	99.06	**788**	2	0.00	56978	99.78
737	15	0.03	56579	99.08	**789**	2	0.00	56980	99.78
738	8	0.01	56587	99.10	**793**	1	0.00	56981	99.79
739	13	0.02	56600	99.12	**794**	1	0.00	56982	99.79
740	7	0.01	56607	99.13	**796**	9	0.02	56991	99.80
741	5	0.01	56612	99.14	**797**	2	0.00	56993	99.81
742	3	0.01	56615	99.15	**800**	3	0.01	56996	99.81
743	4	0.01	56619	99.15	**803**	1	0.00	56997	99.81
744	8	0.01	56627	99.17	**806**	3	0.01	57000	99.82
745	8	0.01	56635	99.18	**809**	1	0.00	57001	99.82
746	10	0.02	56645	99.20	**819**	2	0.00	57003	99.82
747	20	0.04	56665	99.23	**825**	1	0.00	57004	99.83
748	60	0.11	56725	99.34	**826**	9	0.02	57013	99.84
749	19	0.03	56744	99.37	**829**	31	0.05	57044	99.90
750	14	0.02	56758	99.40	**834**	22	0.04	57066	99.94
751	24	0.04	56782	99.44	**836**	7	0.01	57073	99.95
752	7	0.01	56789	99.45	**841**	1	0.00	57074	99.95
753	5	0.01	56794	99.46	**845**	2	0.00	57076	99.95
754	7	0.01	56801	99.47	**849**	1	0.00	57077	99.95
755	2	0.00	56803	99.47	**910**	26	0.05	57103	100
756	3	0.01	56806	99.48					

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Table 181. Mathematics Grade 8 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
310	304	0.53	304	0.53	**357**	9	0.02	561	0.98	**404**	18	0.03	1161	2.03
311	4	0.01	308	0.54	**358**	2	0.00	563	0.98	**405**	28	0.05	1189	2.08
312	4	0.01	312	0.55	**359**	6	0.01	569	0.99	**406**	31	0.05	1220	2.13
313	2	0.00	314	0.55	**360**	8	0.01	577	1.01	**407**	17	0.03	1237	2.16
314	3	0.01	317	0.55	**361**	7	0.01	584	1.02	**408**	14	0.02	1251	2.19
315	4	0.01	321	0.56	**362**	8	0.01	592	1.04	**409**	22	0.04	1273	2.23
316	3	0.01	324	0.57	**363**	14	0.02	606	1.06	**410**	23	0.04	1296	2.27
317	3	0.01	327	0.57	**364**	11	0.02	617	1.08	**411**	33	0.06	1329	2.32
318	2	0.00	329	0.58	**365**	3	0.01	620	1.08	**412**	19	0.03	1348	2.36
319	5	0.01	334	0.58	**366**	7	0.01	627	1.10	**413**	32	0.06	1380	2.41
320	1	0.00	335	0.59	**367**	8	0.01	635	1.11	**414**	29	0.05	1409	2.46
321	5	0.01	340	0.59	**368**	8	0.01	643	1.12	**415**	17	0.03	1426	2.49
322	4	0.01	344	0.60	**369**	9	0.02	652	1.14	**416**	26	0.05	1452	2.54
323	5	0.01	349	0.61	**370**	13	0.02	665	1.16	**417**	22	0.04	1474	2.58
324	6	0.01	355	0.62	**371**	8	0.01	673	1.18	**418**	30	0.05	1504	2.63
325	4	0.01	359	0.63	**372**	10	0.02	683	1.19	**419**	29	0.05	1533	2.68
326	5	0.01	364	0.64	**373**	10	0.02	693	1.21	**420**	31	0.05	1564	2.73
327	6	0.01	370	0.65	**374**	7	0.01	700	1.22	**421**	33	0.06	1597	2.79
328	2	0.00	372	0.65	**375**	16	0.03	716	1.25	**422**	34	0.06	1631	2.85
329	6	0.01	378	0.66	**376**	7	0.01	723	1.26	**423**	26	0.05	1657	2.90
330	4	0.01	382	0.67	**377**	12	0.02	735	1.29	**424**	40	0.07	1697	2.97
331	4	0.01	386	0.67	**378**	7	0.01	742	1.30	**425**	34	0.06	1731	3.03
332	2	0.00	388	0.68	**379**	15	0.03	757	1.32	**426**	40	0.07	1771	3.10
333	6	0.01	394	0.69	**380**	9	0.02	766	1.34	**427**	40	0.07	1811	3.17
334	2	0.00	396	0.69	**381**	12	0.02	778	1.36	**428**	28	0.05	1839	3.22
335	4	0.01	400	0.70	**382**	9	0.02	787	1.38	**429**	36	0.06	1875	3.28
336	4	0.01	404	0.71	**383**	10	0.02	797	1.39	**430**	41	0.07	1916	3.35
337	5	0.01	409	0.72	**384**	10	0.02	807	1.41	**431**	43	0.08	1959	3.43
338	7	0.01	416	0.73	**385**	15	0.03	822	1.44	**432**	47	0.08	2006	3.51
339	4	0.01	420	0.73	**386**	21	0.04	843	1.47	**433**	37	0.06	2043	3.57
340	7	0.01	427	0.75	**387**	22	0.04	865	1.51	**434**	36	0.06	2079	3.64
341	7	0.01	434	0.76	**388**	17	0.03	882	1.54	**435**	42	0.07	2121	3.71
342	14	0.02	448	0.78	**389**	12	0.02	894	1.56	**436**	41	0.07	2162	3.78
343	5	0.01	453	0.79	**390**	14	0.02	908	1.59	**437**	49	0.09	2211	3.87
344	7	0.01	460	0.80	**391**	17	0.03	925	1.62	**438**	43	0.08	2254	3.94
345	5	0.01	465	0.81	**392**	21	0.04	946	1.65	**439**	42	0.07	2296	4.01
346	8	0.01	473	0.83	**393**	9	0.02	955	1.67	**440**	41	0.07	2337	4.09
347	10	0.02	483	0.84	**394**	11	0.02	966	1.69	**441**	47	0.08	2384	4.17
348	7	0.01	490	0.86	**395**	19	0.03	985	1.72	**442**	54	0.09	2438	4.26
349	6	0.01	496	0.87	**396**	19	0.03	1004	1.76	**443**	36	0.06	2474	4.33
350	7	0.01	503	0.88	**397**	18	0.03	1022	1.79	**444**	40	0.07	2514	4.40
351	7	0.01	510	0.89	**398**	14	0.02	1036	1.81	**445**	50	0.09	2564	4.48
352	12	0.02	522	0.91	**399**	19	0.03	1055	1.84	**446**	51	0.09	2615	4.57
353	7	0.01	529	0.92	**400**	19	0.03	1074	1.88	**447**	44	0.08	2659	4.65
354	9	0.02	538	0.94	**401**	26	0.05	1100	1.92	**448**	56	0.10	2715	4.75
355	7	0.01	545	0.95	**402**	19	0.03	1119	1.96	**449**	58	0.10	2773	4.85
356	7	0.01	552	0.97	**403**	24	0.04	1143	2.00	**450**	63	0.11	2836	4.96

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Table 181. Mathematics Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
451	50	0.09	2886	5.05	**498**	141	0.25	7328	12.81	**545**	292	0.51	17631	30.83
452	55	0.10	2941	5.14	**499**	167	0.29	7495	13.11	**546**	283	0.49	17914	31.32
453	59	0.10	3000	5.25	**500**	157	0.27	7652	13.38	**547**	281	0.49	18195	31.81
454	55	0.10	3055	5.34	**501**	159	0.28	7811	13.66	**548**	269	0.47	18464	32.28
455	50	0.09	3105	5.43	**502**	169	0.30	7980	13.95	**549**	282	0.49	18746	32.78
456	58	0.10	3163	5.53	**503**	156	0.27	8136	14.23	**550**	326	0.57	19072	33.35
457	64	0.11	3227	5.64	**504**	165	0.29	8301	14.51	**551**	296	0.52	19368	33.87
458	69	0.12	3296	5.76	**505**	176	0.31	8477	14.82	**552**	305	0.53	19673	34.40
459	83	0.15	3379	5.91	**506**	172	0.30	8649	15.12	**553**	313	0.55	19986	34.95
460	58	0.10	3437	6.01	**507**	180	0.31	8829	15.44	**554**	316	0.55	20302	35.50
461	65	0.11	3502	6.12	**508**	168	0.29	8997	15.73	**555**	297	0.52	20599	36.02
462	67	0.12	3569	6.24	**509**	160	0.28	9157	16.01	**556**	313	0.55	20912	36.57
463	78	0.14	3647	6.38	**510**	166	0.29	9323	16.30	**557**	320	0.56	21232	37.12
464	66	0.12	3713	6.49	**511**	169	0.30	9492	16.60	**558**	329	0.58	21561	37.70
465	79	0.14	3792	6.63	**512**	196	0.34	9688	16.94	**559**	347	0.61	21908	38.31
466	77	0.13	3869	6.77	**513**	182	0.32	9870	17.26	**560**	340	0.59	22248	38.90
467	90	0.16	3959	6.92	**514**	187	0.33	10057	17.58	**561**	320	0.56	22568	39.46
468	67	0.12	4026	7.04	**515**	173	0.30	10230	17.89	**562**	314	0.55	22882	40.01
469	83	0.15	4109	7.18	**516**	177	0.31	10407	18.20	**563**	354	0.62	23236	40.63
470	68	0.12	4177	7.30	**517**	210	0.37	10617	18.56	**564**	324	0.57	23560	41.20
471	71	0.12	4248	7.43	**518**	199	0.35	10816	18.91	**565**	341	0.60	23901	41.79
472	90	0.16	4338	7.59	**519**	222	0.39	11038	19.30	**566**	288	0.50	24189	42.30
473	91	0.16	4429	7.74	**520**	209	0.37	11247	19.67	**567**	335	0.59	24524	42.88
474	91	0.16	4520	7.90	**521**	215	0.38	11462	20.04	**568**	352	0.62	24876	43.50
475	95	0.17	4615	8.07	**522**	239	0.42	11701	20.46	**569**	363	0.63	25239	44.13
476	92	0.16	4707	8.23	**523**	239	0.42	11940	20.88	**570**	322	0.56	25561	44.69
477	103	0.18	4810	8.41	**524**	221	0.39	12161	21.26	**571**	367	0.64	25928	45.34
478	93	0.16	4903	8.57	**525**	240	0.42	12401	21.68	**572**	343	0.60	26271	45.94
479	101	0.18	5004	8.75	**526**	241	0.42	12642	22.10	**573**	362	0.63	26633	46.57
480	110	0.19	5114	8.94	**527**	225	0.39	12867	22.50	**574**	347	0.61	26980	47.18
481	95	0.17	5209	9.11	**528**	233	0.41	13100	22.91	**575**	298	0.52	27278	47.70
482	87	0.15	5296	9.26	**529**	239	0.42	13339	23.32	**576**	363	0.63	27641	48.33
483	110	0.19	5406	9.45	**530**	271	0.47	13610	23.80	**577**	370	0.65	28011	48.98
484	124	0.22	5530	9.67	**531**	272	0.48	13882	24.27	**578**	340	0.59	28351	49.57
485	112	0.20	5642	9.87	**532**	243	0.42	14125	24.70	**579**	338	0.59	28689	50.16
486	116	0.20	5758	10.07	**533**	255	0.45	14380	25.14	**580**	328	0.57	29017	50.74
487	93	0.16	5851	10.23	**534**	293	0.51	14673	25.66	**581**	332	0.58	29349	51.32
488	143	0.25	5994	10.48	**535**	242	0.42	14915	26.08	**582**	349	0.61	29698	51.93
489	135	0.24	6129	10.72	**536**	221	0.39	15136	26.47	**583**	361	0.63	30059	52.56
490	129	0.23	6258	10.94	**537**	279	0.49	15415	26.95	**584**	380	0.66	30439	53.22
491	123	0.22	6381	11.16	**538**	282	0.49	15697	27.45	**585**	366	0.64	30805	53.86
492	132	0.23	6513	11.39	**539**	259	0.45	15956	27.90	**586**	353	0.62	31158	54.48
493	136	0.24	6649	11.63	**540**	280	0.49	16236	28.39	**587**	309	0.54	31467	55.02
494	133	0.23	6782	11.86	**541**	287	0.50	16523	28.89	**588**	353	0.62	31820	55.64
495	113	0.20	6895	12.06	**542**	288	0.50	16811	29.39	**589**	342	0.60	32162	56.24
496	134	0.23	7029	12.29	**543**	288	0.50	17099	29.90	**590**	350	0.61	32512	56.85
497	158	0.28	7187	12.57	**544**	240	0.42	17339	30.32	**591**	331	0.58	32843	57.43

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Table 181. Mathematics Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
592	350	0.61	33193	58.04	**639**	215	0.38	47129	82.41	**686**	107	0.19	54720	95.68
593	341	0.60	33534	58.64	**640**	271	0.47	47400	82.88	**687**	100	0.17	54820	95.85
594	341	0.60	33875	59.23	**641**	230	0.40	47630	83.28	**688**	88	0.15	54908	96.01
595	317	0.55	34192	59.79	**642**	235	0.41	47865	83.69	**689**	75	0.13	54983	96.14
596	344	0.60	34536	60.39	**643**	205	0.36	48070	84.05	**690**	78	0.14	55061	96.28
597	312	0.55	34848	60.93	**644**	221	0.39	48291	84.44	**691**	74	0.13	55135	96.41
598	314	0.55	35162	61.48	**645**	229	0.40	48520	84.84	**692**	64	0.11	55199	96.52
599	332	0.58	35494	62.06	**646**	222	0.39	48742	85.23	**693**	75	0.13	55274	96.65
600	344	0.60	35838	62.66	**647**	225	0.39	48967	85.62	**694**	82	0.14	55356	96.79
601	323	0.56	36161	63.23	**648**	203	0.35	49170	85.98	**695**	71	0.12	55427	96.92
602	332	0.58	36493	63.81	**649**	193	0.34	49363	86.31	**696**	54	0.09	55481	97.01
603	316	0.55	36809	64.36	**650**	209	0.37	49572	86.68	**697**	71	0.12	55552	97.13
604	313	0.55	37122	64.91	**651**	212	0.37	49784	87.05	**698**	52	0.09	55604	97.23
605	346	0.60	37468	65.51	**652**	194	0.34	49978	87.39	**699**	63	0.11	55667	97.34
606	319	0.56	37787	66.07	**653**	191	0.33	50169	87.72	**700**	61	0.11	55728	97.44
607	315	0.55	38102	66.62	**654**	178	0.31	50347	88.03	**701**	44	0.08	55772	97.52
608	319	0.56	38421	67.18	**655**	186	0.33	50533	88.36	**702**	52	0.09	55824	97.61
609	326	0.57	38747	67.75	**656**	216	0.38	50749	88.74	**703**	41	0.07	55865	97.68
610	307	0.54	39054	68.29	**657**	181	0.32	50930	89.05	**704**	52	0.09	55917	97.77
611	306	0.54	39360	68.82	**658**	154	0.27	51084	89.32	**705**	33	0.06	55950	97.83
612	296	0.52	39656	69.34	**659**	177	0.31	51261	89.63	**706**	42	0.07	55992	97.90
613	328	0.57	39984	69.91	**660**	164	0.29	51425	89.92	**707**	38	0.07	56030	97.97
614	297	0.52	40281	70.43	**661**	156	0.27	51581	90.19	**708**	47	0.08	56077	98.05
615	298	0.52	40579	70.95	**662**	176	0.31	51757	90.50	**709**	26	0.05	56103	98.10
616	288	0.50	40867	71.46	**663**	156	0.27	51913	90.77	**710**	50	0.09	56153	98.19
617	287	0.50	41154	71.96	**664**	147	0.26	52060	91.03	**711**	37	0.06	56190	98.25
618	326	0.57	41480	72.53	**665**	150	0.26	52210	91.29	**712**	48	0.08	56238	98.33
619	283	0.49	41763	73.02	**666**	151	0.26	52361	91.55	**713**	28	0.05	56266	98.38
620	308	0.54	42071	73.56	**667**	142	0.25	52503	91.80	**714**	40	0.07	56306	98.45
621	311	0.54	42382	74.11	**668**	144	0.25	52647	92.05	**715**	26	0.05	56332	98.50
622	295	0.52	42677	74.62	**669**	151	0.26	52798	92.32	**716**	36	0.06	56368	98.56
623	253	0.44	42930	75.06	**670**	126	0.22	52924	92.54	**717**	30	0.05	56398	98.61
624	281	0.49	43211	75.56	**671**	137	0.24	53061	92.78	**718**	35	0.06	56433	98.67
625	278	0.49	43489	76.04	**672**	154	0.27	53215	93.05	**719**	26	0.05	56459	98.72
626	281	0.49	43770	76.53	**673**	109	0.19	53324	93.24	**720**	29	0.05	56488	98.77
627	274	0.48	44044	77.01	**674**	110	0.19	53434	93.43	**721**	14	0.02	56502	98.80
628	270	0.47	44314	77.48	**675**	135	0.24	53569	93.67	**722**	24	0.04	56526	98.84
629	267	0.47	44581	77.95	**676**	130	0.23	53699	93.89	**723**	24	0.04	56550	98.88
630	263	0.46	44844	78.41	**677**	116	0.20	53815	94.10	**724**	24	0.04	56574	98.92
631	281	0.49	45125	78.90	**678**	119	0.21	53934	94.31	**725**	26	0.05	56600	98.97
632	282	0.49	45407	79.40	**679**	110	0.19	54044	94.50	**726**	27	0.05	56627	99.01
633	273	0.48	45680	79.87	**680**	110	0.19	54154	94.69	**727**	18	0.03	56645	99.05
634	265	0.46	45945	80.34	**681**	100	0.17	54254	94.86	**728**	28	0.05	56673	99.09
635	241	0.42	46186	80.76	**682**	104	0.18	54358	95.05	**729**	28	0.05	56701	99.14
636	255	0.45	46441	81.20	**683**	91	0.16	54449	95.21	**730**	17	0.03	56718	99.17
637	249	0.44	46690	81.64	**684**	80	0.14	54529	95.35	**731**	22	0.04	56740	99.21
638	224	0.39	46914	82.03	**685**	84	0.15	54613	95.49	**732**	23	0.04	56763	99.25

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Table 181. Mathematics Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
733	15	0.03	56778	99.28	**780**	5	0.01	57121	99.88
734	14	0.02	56792	99.30	**781**	2	0.00	57123	99.88
735	16	0.03	56808	99.33	**782**	5	0.01	57128	99.89
736	19	0.03	56827	99.36	**783**	3	0.01	57131	99.90
737	14	0.02	56841	99.39	**785**	3	0.01	57134	99.90
738	9	0.02	56850	99.40	**786**	1	0.00	57135	99.90
739	17	0.03	56867	99.43	**787**	1	0.00	57136	99.90
740	12	0.02	56879	99.45	**788**	3	0.01	57139	99.91
741	2	0.00	56881	99.46	**790**	2	0.00	57141	99.91
742	19	0.03	56900	99.49	**791**	1	0.00	57142	99.91
743	14	0.02	56914	99.52	**792**	2	0.00	57144	99.92
744	8	0.01	56922	99.53	**793**	2	0.00	57146	99.92
745	7	0.01	56929	99.54	**794**	1	0.00	57147	99.92
746	7	0.01	56936	99.55	**795**	1	0.00	57148	99.92
747	12	0.02	56948	99.58	**796**	2	0.00	57150	99.93
748	7	0.01	56955	99.59	**797**	1	0.00	57151	99.93
749	8	0.01	56963	99.60	**798**	1	0.00	57152	99.93
750	5	0.01	56968	99.61	**799**	3	0.01	57155	99.94
751	4	0.01	56972	99.62	**802**	1	0.00	57156	99.94
752	7	0.01	56979	99.63	**804**	2	0.00	57158	99.94
753	9	0.02	56988	99.65	**810**	1	0.00	57159	99.94
754	8	0.01	56996	99.66	**811**	1	0.00	57160	99.95
755	5	0.01	57001	99.67	**812**	3	0.01	57163	99.95
756	6	0.01	57007	99.68	**817**	2	0.00	57165	99.95
757	8	0.01	57015	99.69	**818**	1	0.00	57166	99.96
758	12	0.02	57027	99.71	**821**	1	0.00	57167	99.96
759	6	0.01	57033	99.72	**823**	1	0.00	57168	99.96
760	3	0.01	57036	99.73	**827**	2	0.00	57170	99.96
761	9	0.02	57045	99.74	**831**	3	0.01	57173	99.97
762	2	0.00	57047	99.75	**832**	1	0.00	57174	99.97
763	4	0.01	57051	99.76	**834**	1	0.00	57175	99.97
764	7	0.01	57058	99.77	**838**	1	0.00	57176	99.97
765	3	0.01	57061	99.77	**840**	1	0.00	57177	99.98
766	8	0.01	57069	99.79	**845**	1	0.00	57178	99.98
767	7	0.01	57076	99.80	**846**	1	0.00	57179	99.98
768	9	0.02	57085	99.81	**856**	1	0.00	57180	99.98
769	4	0.01	57089	99.82	**862**	1	0.00	57181	99.98
770	5	0.01	57094	99.83	**865**	1	0.00	57182	99.98
771	4	0.01	57098	99.84	**878**	1	0.00	57183	99.99
772	2	0.00	57100	99.84	**879**	1	0.00	57184	99.99
773	4	0.01	57104	99.85	**887**	1	0.00	57185	99.99
774	1	0.00	57105	99.85	**890**	6	0.01	57191	100
775	3	0.01	57108	99.85					
776	1	0.00	57109	99.86					
777	3	0.01	57112	99.86					
778	3	0.01	57115	99.87					
779	1	0.00	57116	99.87					

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Table 182. Science Grade 8 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	444	0.77	444	0.77	**347**	26	0.05	1087	1.89	**394**	81	0.14	3296	5.73
301	8	0.01	452	0.79	**348**	29	0.05	1116	1.94	**395**	80	0.14	3376	5.87
302	6	0.01	458	0.80	**349**	30	0.05	1146	1.99	**396**	81	0.14	3457	6.01
303	9	0.02	467	0.81	**350**	30	0.05	1176	2.05	**397**	85	0.15	3542	6.16
304	8	0.01	475	0.83	**351**	30	0.05	1206	2.10	**398**	80	0.14	3622	6.30
305	10	0.02	485	0.84	**352**	30	0.05	1236	2.15	**399**	84	0.15	3706	6.45
306	8	0.01	493	0.86	**353**	27	0.05	1263	2.20	**400**	104	0.18	3810	6.63
307	11	0.02	504	0.88	**354**	25	0.04	1288	2.24	**401**	98	0.17	3908	6.80
308	9	0.02	513	0.89	**355**	20	0.03	1308	2.28	**402**	97	0.17	4005	6.97
309	7	0.01	520	0.90	**356**	29	0.05	1337	2.33	**403**	85	0.15	4090	7.12
310	9	0.02	529	0.92	**357**	25	0.04	1362	2.37	**404**	98	0.17	4188	7.29
311	14	0.02	543	0.94	**358**	30	0.05	1392	2.42	**405**	98	0.17	4286	7.46
312	9	0.02	552	0.96	**359**	35	0.06	1427	2.48	**406**	112	0.19	4398	7.65
313	10	0.02	562	0.98	**360**	27	0.05	1454	2.53	**407**	90	0.16	4488	7.81
314	9	0.02	571	0.99	**361**	44	0.08	1498	2.61	**408**	115	0.20	4603	8.01
315	8	0.01	579	1.01	**362**	34	0.06	1532	2.67	**409**	110	0.19	4713	8.20
316	9	0.02	588	1.02	**363**	31	0.05	1563	2.72	**410**	113	0.20	4826	8.40
317	13	0.02	601	1.05	**364**	27	0.05	1590	2.77	**411**	118	0.21	4944	8.60
318	13	0.02	614	1.07	**365**	24	0.04	1614	2.81	**412**	132	0.23	5076	8.83
319	11	0.02	625	1.09	**366**	44	0.08	1658	2.88	**413**	107	0.19	5183	9.02
320	14	0.02	639	1.11	**367**	44	0.08	1702	2.96	**414**	116	0.20	5299	9.22
321	6	0.01	645	1.12	**368**	42	0.07	1744	3.03	**415**	139	0.24	5438	9.46
322	13	0.02	658	1.14	**369**	44	0.08	1788	3.11	**416**	141	0.25	5579	9.71
323	9	0.02	667	1.16	**370**	44	0.08	1832	3.19	**417**	129	0.22	5708	9.93
324	8	0.01	675	1.17	**371**	41	0.07	1873	3.26	**418**	143	0.25	5851	10.18
325	11	0.02	686	1.19	**372**	45	0.08	1918	3.34	**419**	152	0.26	6003	10.44
326	17	0.03	703	1.22	**373**	49	0.09	1967	3.42	**420**	141	0.25	6144	10.69
327	13	0.02	716	1.25	**374**	40	0.07	2007	3.49	**421**	140	0.24	6284	10.93
328	18	0.03	734	1.28	**375**	66	0.11	2073	3.61	**422**	142	0.25	6426	11.18
329	14	0.02	748	1.30	**376**	44	0.08	2117	3.68	**423**	146	0.25	6572	11.43
330	14	0.02	762	1.33	**377**	60	0.10	2177	3.79	**424**	139	0.24	6711	11.68
331	12	0.02	774	1.35	**378**	57	0.10	2234	3.89	**425**	154	0.27	6865	11.94
332	17	0.03	791	1.38	**379**	47	0.08	2281	3.97	**426**	162	0.28	7027	12.23
333	26	0.05	817	1.42	**380**	54	0.09	2335	4.06	**427**	164	0.29	7191	12.51
334	16	0.03	833	1.45	**381**	36	0.06	2371	4.13	**428**	154	0.27	7345	12.78
335	12	0.02	845	1.47	**382**	59	0.10	2430	4.23	**429**	160	0.28	7505	13.06
336	14	0.02	859	1.49	**383**	63	0.11	2493	4.34	**430**	177	0.31	7682	13.37
337	11	0.02	870	1.51	**384**	67	0.12	2560	4.45	**431**	151	0.26	7833	13.63
338	6	0.01	876	1.52	**385**	64	0.11	2624	4.57	**432**	165	0.29	7998	13.91
339	22	0.04	898	1.56	**386**	64	0.11	2688	4.68	**433**	174	0.30	8172	14.22
340	23	0.04	921	1.60	**387**	69	0.12	2757	4.80	**434**	181	0.31	8353	14.53
341	19	0.03	940	1.64	**388**	80	0.14	2837	4.94	**435**	194	0.34	8547	14.87
342	26	0.05	966	1.68	**389**	59	0.10	2896	5.04	**436**	172	0.30	8719	15.17
343	31	0.05	997	1.73	**390**	79	0.14	2975	5.18	**437**	176	0.31	8895	15.48
344	18	0.03	1015	1.77	**391**	70	0.12	3045	5.30	**438**	194	0.34	9089	15.81
345	28	0.05	1043	1.81	**392**	77	0.13	3122	5.43	**439**	167	0.29	9256	16.10
346	18	0.03	1061	1.85	**393**	93	0.16	3215	5.59	**440**	209	0.36	9465	16.47

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Table 182. Science Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
441	186	0.32	9651	16.79	**488**	379	0.66	22578	39.28	**535**	407	0.71	40839	71.05
442	213	0.37	9864	17.16	**489**	360	0.63	22938	39.91	**536**	361	0.63	41200	71.68
443	201	0.35	10065	17.51	**490**	363	0.63	23301	40.54	**537**	387	0.67	41587	72.35
444	212	0.37	10277	17.88	**491**	330	0.57	23631	41.11	**538**	368	0.64	41955	72.99
445	206	0.36	10483	18.24	**492**	350	0.61	23981	41.72	**539**	386	0.67	42341	73.66
446	216	0.38	10699	18.61	**493**	379	0.66	24360	42.38	**540**	378	0.66	42719	74.32
447	201	0.35	10900	18.96	**494**	390	0.68	24750	43.06	**541**	358	0.62	43077	74.95
448	231	0.40	11131	19.37	**495**	397	0.69	25147	43.75	**542**	374	0.65	43451	75.60
449	203	0.35	11334	19.72	**496**	367	0.64	25514	44.39	**543**	375	0.65	43826	76.25
450	244	0.42	11578	20.14	**497**	378	0.66	25892	45.05	**544**	394	0.69	44220	76.93
451	219	0.38	11797	20.52	**498**	357	0.62	26249	45.67	**545**	371	0.65	44591	77.58
452	208	0.36	12005	20.89	**499**	360	0.63	26609	46.29	**546**	356	0.62	44947	78.20
453	237	0.41	12242	21.30	**500**	405	0.70	27014	47.00	**547**	372	0.65	45319	78.85
454	258	0.45	12500	21.75	**501**	390	0.68	27404	47.68	**548**	321	0.56	45640	79.40
455	234	0.41	12734	22.15	**502**	393	0.68	27797	48.36	**549**	339	0.59	45979	79.99
456	237	0.41	12971	22.57	**503**	421	0.73	28218	49.09	**550**	318	0.55	46297	80.55
457	230	0.40	13201	22.97	**504**	382	0.66	28600	49.76	**551**	303	0.53	46600	81.07
458	299	0.52	13500	23.49	**505**	366	0.64	28966	50.39	**552**	326	0.57	46926	81.64
459	257	0.45	13757	23.93	**506**	414	0.72	29380	51.12	**553**	306	0.53	47232	82.17
460	259	0.45	14016	24.38	**507**	388	0.68	29768	51.79	**554**	341	0.59	47573	82.77
461	271	0.47	14287	24.86	**508**	380	0.66	30148	52.45	**555**	298	0.52	47871	83.29
462	273	0.47	14560	25.33	**509**	399	0.69	30547	53.15	**556**	313	0.54	48184	83.83
463	261	0.45	14821	25.79	**510**	359	0.62	30906	53.77	**557**	281	0.49	48465	84.32
464	266	0.46	15087	26.25	**511**	393	0.68	31299	54.45	**558**	253	0.44	48718	84.76
465	284	0.49	15371	26.74	**512**	392	0.68	31691	55.14	**559**	299	0.52	49017	85.28
466	302	0.53	15673	27.27	**513**	396	0.69	32087	55.82	**560**	233	0.41	49250	85.68
467	278	0.48	15951	27.75	**514**	416	0.72	32503	56.55	**561**	275	0.48	49525	86.16
468	283	0.49	16234	28.24	**515**	393	0.68	32896	57.23	**562**	315	0.55	49840	86.71
469	268	0.47	16502	28.71	**516**	384	0.67	33280	57.90	**563**	265	0.46	50105	87.17
470	308	0.54	16810	29.25	**517**	423	0.74	33703	58.64	**564**	240	0.42	50345	87.59
471	277	0.48	17087	29.73	**518**	418	0.73	34121	59.36	**565**	265	0.46	50610	88.05
472	297	0.52	17384	30.24	**519**	421	0.73	34542	60.10	**566**	233	0.41	50843	88.46
473	299	0.52	17683	30.76	**520**	394	0.69	34936	60.78	**567**	233	0.41	51076	88.86
474	275	0.48	17958	31.24	**521**	398	0.69	35334	61.47	**568**	230	0.40	51306	89.26
475	318	0.55	18276	31.80	**522**	399	0.69	35733	62.17	**569**	228	0.40	51534	89.66
476	277	0.48	18553	32.28	**523**	385	0.67	36118	62.84	**570**	209	0.36	51743	90.02
477	312	0.54	18865	32.82	**524**	402	0.70	36520	63.54	**571**	195	0.34	51938	90.36
478	305	0.53	19170	33.35	**525**	378	0.66	36898	64.19	**572**	242	0.42	52180	90.78
479	320	0.56	19490	33.91	**526**	383	0.67	37281	64.86	**573**	235	0.41	52415	91.19
480	324	0.56	19814	34.47	**527**	389	0.68	37670	65.54	**574**	204	0.35	52619	91.55
481	334	0.58	20148	35.05	**528**	382	0.66	38052	66.20	**575**	200	0.35	52819	91.89
482	309	0.54	20457	35.59	**529**	412	0.72	38464	66.92	**576**	198	0.34	53017	92.24
483	334	0.58	20791	36.17	**530**	365	0.64	38829	67.55	**577**	206	0.36	53223	92.60
484	356	0.62	21147	36.79	**531**	401	0.70	39230	68.25	**578**	173	0.30	53396	92.90
485	352	0.61	21499	37.40	**532**	406	0.71	39636	68.96	**579**	163	0.28	53559	93.18
486	339	0.59	21838	37.99	**533**	391	0.68	40027	69.64	**580**	158	0.27	53717	93.46
487	361	0.63	22199	38.62	**534**	405	0.70	40432	70.34	**581**	171	0.30	53888	93.75

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Table 182. Science Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
582	143	0.25	54031	94.00	**629**	16	0.03	57240	99.59	**680**	1	0.00	57469	99.98
583	138	0.24	54169	94.24	**630**	18	0.03	57258	99.62	**681**	1	0.00	57470	99.99
584	132	0.23	54301	94.47	**631**	16	0.03	57274	99.65	**688**	3	0.01	57473	99.99
585	127	0.22	54428	94.69	**632**	11	0.02	57285	99.66	**694**	1	0.00	57474	99.99
586	144	0.25	54572	94.94	**633**	13	0.02	57298	99.69	**697**	1	0.00	57475	99.99
587	132	0.23	54704	95.17	**634**	7	0.01	57305	99.70	**702**	1	0.00	57476	100
588	127	0.22	54831	95.39	**635**	7	0.01	57312	99.71	**706**	1	0.00	57477	100
589	126	0.22	54957	95.61	**636**	9	0.02	57321	99.73	**713**	1	0.00	57478	100
590	119	0.21	55076	95.82	**637**	10	0.02	57331	99.74					
591	117	0.20	55193	96.02	**638**	8	0.01	57339	99.76					
592	129	0.22	55322	96.25	**639**	6	0.01	57345	99.77					
593	126	0.22	55448	96.47	**640**	9	0.02	57354	99.78					
594	98	0.17	55546	96.64	**641**	6	0.01	57360	99.79					
595	86	0.15	55632	96.79	**642**	6	0.01	57366	99.81					
596	112	0.19	55744	96.98	**643**	8	0.01	57374	99.82					
597	91	0.16	55835	97.14	**644**	7	0.01	57381	99.83					
598	80	0.14	55915	97.28	**645**	1	0.00	57382	99.83					
599	81	0.14	55996	97.42	**646**	5	0.01	57387	99.84					
600	77	0.13	56073	97.56	**647**	5	0.01	57392	99.85					
601	74	0.13	56147	97.68	**648**	2	0.00	57394	99.85					
602	65	0.11	56212	97.80	**649**	6	0.01	57400	99.86					
603	66	0.11	56278	97.91	**650**	2	0.00	57402	99.87					
604	63	0.11	56341	98.02	**651**	6	0.01	57408	99.88					
605	73	0.13	56414	98.15	**652**	8	0.01	57416	99.89					
606	60	0.10	56474	98.25	**653**	3	0.01	57419	99.90					
607	57	0.10	56531	98.35	**654**	1	0.00	57420	99.90					
608	56	0.10	56587	98.45	**655**	5	0.01	57425	99.91					
609	44	0.08	56631	98.53	**656**	5	0.01	57430	99.92					
610	53	0.09	56684	98.62	**657**	4	0.01	57434	99.92					
611	42	0.07	56726	98.69	**658**	4	0.01	57438	99.93					
612	45	0.08	56771	98.77	**659**	1	0.00	57439	99.93					
613	38	0.07	56809	98.84	**660**	1	0.00	57440	99.93					
614	35	0.06	56844	98.90	**661**	2	0.00	57442	99.94					
615	45	0.08	56889	98.98	**662**	1	0.00	57443	99.94					
616	34	0.06	56923	99.03	**663**	2	0.00	57445	99.94					
617	27	0.05	56950	99.08	**664**	1	0.00	57446	99.94					
618	36	0.06	56986	99.14	**665**	2	0.00	57448	99.95					
619	30	0.05	57016	99.20	**666**	4	0.01	57452	99.95					
620	35	0.06	57051	99.26	**667**	4	0.01	57456	99.96					
621	24	0.04	57075	99.30	**668**	3	0.01	57459	99.97					
622	29	0.05	57104	99.35	**669**	3	0.01	57462	99.97					
623	24	0.04	57128	99.39	**670**	1	0.00	57463	99.97					
624	21	0.04	57149	99.43	**671**	1	0.00	57464	99.98					
625	22	0.04	57171	99.47	**673**	1	0.00	57465	99.98					
626	23	0.04	57194	99.51	**674**	1	0.00	57466	99.98					
627	19	0.03	57213	99.54	**678**	1	0.00	57467	99.98					
628	11	0.02	57224	99.56	**679**	1	0.00	57468	99.98					

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Table 183. Reading Grade 9 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
350	176	0.30	176	0.30	**477**	4	0.01	265	0.45	**524**	19	0.03	698	1.18
410	1	0.00	177	0.30	**478**	1	0.00	266	0.45	**525**	18	0.03	716	1.21
413	1	0.00	178	0.30	**479**	3	0.01	269	0.46	**526**	28	0.05	744	1.26
415	1	0.00	179	0.30	**480**	3	0.01	272	0.46	**527**	23	0.04	767	1.30
416	1	0.00	180	0.30	**481**	3	0.01	275	0.47	**528**	17	0.03	784	1.33
417	1	0.00	181	0.31	**482**	1	0.00	276	0.47	**529**	20	0.03	804	1.36
420	2	0.00	183	0.31	**483**	5	0.01	281	0.48	**530**	27	0.05	831	1.41
425	1	0.00	184	0.31	**484**	5	0.01	286	0.48	**531**	18	0.03	849	1.44
427	3	0.01	187	0.32	**485**	4	0.01	290	0.49	**532**	22	0.04	871	1.47
428	1	0.00	188	0.32	**486**	4	0.01	294	0.50	**533**	33	0.06	904	1.53
429	2	0.00	190	0.32	**487**	7	0.01	301	0.51	**534**	38	0.06	942	1.60
430	2	0.00	192	0.33	**488**	3	0.01	304	0.51	**535**	41	0.07	983	1.66
434	3	0.01	195	0.33	**489**	3	0.01	307	0.52	**536**	25	0.04	1008	1.71
435	1	0.00	196	0.33	**490**	3	0.01	310	0.52	**537**	40	0.07	1048	1.77
436	1	0.00	197	0.33	**491**	7	0.01	317	0.54	**538**	37	0.06	1085	1.84
438	2	0.00	199	0.34	**492**	2	0.00	319	0.54	**539**	56	0.09	1141	1.93
440	2	0.00	201	0.34	**493**	12	0.02	331	0.56	**540**	34	0.06	1175	1.99
442	2	0.00	203	0.34	**494**	7	0.01	338	0.57	**541**	44	0.07	1219	2.06
443	2	0.00	205	0.35	**495**	5	0.01	343	0.58	**542**	37	0.06	1256	2.13
444	2	0.00	207	0.35	**496**	3	0.01	346	0.59	**543**	39	0.07	1295	2.19
446	1	0.00	208	0.35	**497**	8	0.01	354	0.60	**544**	42	0.07	1337	2.26
447	3	0.01	211	0.36	**498**	7	0.01	361	0.61	**545**	42	0.07	1379	2.34
449	1	0.00	212	0.36	**499**	7	0.01	368	0.62	**546**	39	0.07	1418	2.40
450	1	0.00	213	0.36	**500**	8	0.01	376	0.64	**547**	44	0.07	1462	2.48
451	1	0.00	214	0.36	**501**	10	0.02	386	0.65	**548**	75	0.13	1537	2.60
452	3	0.01	217	0.37	**502**	9	0.02	395	0.67	**549**	50	0.08	1587	2.69
453	2	0.00	219	0.37	**503**	13	0.02	408	0.69	**550**	54	0.09	1641	2.78
454	1	0.00	220	0.37	**504**	8	0.01	416	0.70	**551**	46	0.08	1687	2.86
455	2	0.00	222	0.38	**505**	8	0.01	424	0.72	**552**	47	0.08	1734	2.94
456	1	0.00	223	0.38	**506**	10	0.02	434	0.73	**553**	37	0.06	1771	3.00
457	2	0.00	225	0.38	**507**	9	0.02	443	0.75	**554**	49	0.08	1820	3.08
458	3	0.01	228	0.39	**508**	14	0.02	457	0.77	**555**	49	0.08	1869	3.16
460	2	0.00	230	0.39	**509**	13	0.02	470	0.80	**556**	57	0.10	1926	3.26
461	1	0.00	231	0.39	**510**	16	0.03	486	0.82	**557**	58	0.10	1984	3.36
462	2	0.00	233	0.39	**511**	15	0.03	501	0.85	**558**	79	0.13	2063	3.49
463	3	0.01	236	0.40	**512**	15	0.03	516	0.87	**559**	81	0.14	2144	3.63
464	2	0.00	238	0.40	**513**	11	0.02	527	0.89	**560**	73	0.12	2217	3.75
465	2	0.00	240	0.41	**514**	7	0.01	534	0.90	**561**	74	0.13	2291	3.88
467	2	0.00	242	0.41	**515**	16	0.03	550	0.93	**562**	67	0.11	2358	3.99
468	4	0.01	246	0.42	**516**	11	0.02	561	0.95	**563**	80	0.14	2438	4.13
469	1	0.00	247	0.42	**517**	21	0.04	582	0.99	**564**	67	0.11	2505	4.24
470	2	0.00	249	0.42	**518**	15	0.03	597	1.01	**565**	69	0.12	2574	4.36
471	3	0.01	252	0.43	**519**	13	0.02	610	1.03	**566**	99	0.17	2673	4.53
472	1	0.00	253	0.43	**520**	12	0.02	622	1.05	**567**	78	0.13	2751	4.66
474	4	0.01	257	0.44	**521**	16	0.03	638	1.08	**568**	90	0.15	2841	4.81
475	2	0.00	259	0.44	**522**	20	0.03	658	1.11	**569**	72	0.12	2913	4.93
476	2	0.00	261	0.44	**523**	21	0.04	679	1.15	**570**	91	0.15	3004	5.09

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Table 183. Reading Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
571	95	0.16	3099	5.25	**618**	253	0.43	10682	18.09	**665**	476	0.81	29068	49.22
572	79	0.13	3178	5.38	**619**	248	0.42	10930	18.51	**666**	515	0.87	29583	50.09
573	82	0.14	3260	5.52	**620**	214	0.36	11144	18.87	**667**	477	0.81	30060	50.90
574	102	0.17	3362	5.69	**621**	270	0.46	11414	19.33	**668**	504	0.85	30564	51.75
575	88	0.15	3450	5.84	**622**	288	0.49	11702	19.82	**669**	515	0.87	31079	52.63
576	107	0.18	3557	6.02	**623**	269	0.46	11971	20.27	**670**	496	0.84	31575	53.47
577	93	0.16	3650	6.18	**624**	306	0.52	12277	20.79	**671**	542	0.92	32117	54.38
578	119	0.20	3769	6.38	**625**	300	0.51	12577	21.30	**672**	490	0.83	32607	55.21
579	106	0.18	3875	6.56	**626**	365	0.62	12942	21.91	**673**	551	0.93	33158	56.15
580	109	0.18	3984	6.75	**627**	304	0.51	13246	22.43	**674**	475	0.80	33633	56.95
581	115	0.19	4099	6.94	**628**	318	0.54	13564	22.97	**675**	509	0.86	34142	57.81
582	121	0.20	4220	7.15	**629**	298	0.50	13862	23.47	**676**	559	0.95	34701	58.76
583	104	0.18	4324	7.32	**630**	317	0.54	14179	24.01	**677**	504	0.85	35205	59.61
584	120	0.20	4444	7.53	**631**	339	0.57	14518	24.58	**678**	522	0.88	35727	60.50
585	135	0.23	4579	7.75	**632**	358	0.61	14876	25.19	**679**	520	0.88	36247	61.38
586	147	0.25	4726	8.00	**633**	345	0.58	15221	25.77	**680**	488	0.83	36735	62.20
587	126	0.21	4852	8.22	**634**	358	0.61	15579	26.38	**681**	528	0.89	37263	63.10
588	157	0.27	5009	8.48	**635**	346	0.59	15925	26.97	**682**	478	0.81	37741	63.91
589	143	0.24	5152	8.72	**636**	348	0.59	16273	27.56	**683**	491	0.83	38232	64.74
590	127	0.22	5279	8.94	**637**	358	0.61	16631	28.16	**684**	504	0.85	38736	65.59
591	122	0.21	5401	9.15	**638**	369	0.62	17000	28.79	**685**	544	0.92	39280	66.51
592	160	0.27	5561	9.42	**639**	388	0.66	17388	29.44	**686**	488	0.83	39768	67.34
593	139	0.24	5700	9.65	**640**	398	0.67	17786	30.12	**687**	461	0.78	40229	68.12
594	146	0.25	5846	9.90	**641**	402	0.68	18188	30.80	**688**	472	0.80	40701	68.92
595	145	0.25	5991	10.14	**642**	426	0.72	18614	31.52	**689**	475	0.80	41176	69.72
596	176	0.30	6167	10.44	**643**	423	0.72	19037	32.24	**690**	540	0.91	41716	70.64
597	176	0.30	6343	10.74	**644**	370	0.63	19407	32.86	**691**	476	0.81	42192	71.44
598	175	0.30	6518	11.04	**645**	438	0.74	19845	33.60	**692**	492	0.83	42684	72.28
599	166	0.28	6684	11.32	**646**	377	0.64	20222	34.24	**693**	438	0.74	43122	73.02
600	164	0.28	6848	11.60	**647**	422	0.71	20644	34.96	**694**	452	0.77	43574	73.78
601	173	0.29	7021	11.89	**648**	427	0.72	21071	35.68	**695**	444	0.75	44018	74.54
602	180	0.30	7201	12.19	**649**	438	0.74	21509	36.42	**696**	451	0.76	44469	75.30
603	173	0.29	7374	12.49	**650**	469	0.79	21978	37.22	**697**	479	0.81	44948	76.11
604	190	0.32	7564	12.81	**651**	428	0.72	22406	37.94	**698**	417	0.71	45365	76.82
605	220	0.37	7784	13.18	**652**	459	0.78	22865	38.72	**699**	453	0.77	45818	77.58
606	188	0.32	7972	13.50	**653**	435	0.74	23300	39.45	**700**	417	0.71	46235	78.29
607	203	0.34	8175	13.84	**654**	450	0.76	23750	40.22	**701**	358	0.61	46593	78.90
608	223	0.38	8398	14.22	**655**	460	0.78	24210	40.99	**702**	415	0.70	47008	79.60
609	182	0.31	8580	14.53	**656**	444	0.75	24654	41.75	**703**	423	0.72	47431	80.32
610	223	0.38	8803	14.91	**657**	514	0.87	25168	42.62	**704**	409	0.69	47840	81.01
611	224	0.38	9027	15.29	**658**	478	0.81	25646	43.43	**705**	388	0.66	48228	81.66
612	205	0.35	9232	15.63	**659**	469	0.79	26115	44.22	**706**	391	0.66	48619	82.33
613	225	0.38	9457	16.01	**660**	509	0.86	26624	45.08	**707**	385	0.65	49004	82.98
614	262	0.44	9719	16.46	**661**	479	0.81	27103	45.89	**708**	348	0.59	49352	83.57
615	227	0.38	9946	16.84	**662**	497	0.84	27600	46.74	**709**	341	0.58	49693	84.15
616	240	0.41	10186	17.25	**663**	502	0.85	28102	47.59	**710**	337	0.57	50030	84.72
617	243	0.41	10429	17.66	**664**	490	0.83	28592	48.42	**711**	362	0.61	50392	85.33

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Table 183. Reading Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
712	346	0.59	50738	85.92	**759**	53	0.09	58271	98.67	**806**	1	0.00	59003	99.91
713	275	0.47	51013	86.38	**760**	46	0.08	58317	98.75	**807**	1	0.00	59004	99.91
714	301	0.51	51314	86.89	**761**	46	0.08	58363	98.83	**808**	3	0.01	59007	99.92
715	303	0.51	51617	87.40	**762**	37	0.06	58400	98.89	**809**	4	0.01	59011	99.92
716	273	0.46	51890	87.87	**763**	34	0.06	58434	98.95	**810**	3	0.01	59014	99.93
717	314	0.53	52204	88.40	**764**	23	0.04	58457	98.99	**811**	1	0.00	59015	99.93
718	277	0.47	52481	88.87	**765**	35	0.06	58492	99.04	**813**	2	0.00	59017	99.93
719	248	0.42	52729	89.29	**766**	31	0.05	58523	99.10	**814**	3	0.01	59020	99.94
720	251	0.43	52980	89.71	**767**	38	0.06	58561	99.16	**815**	2	0.00	59022	99.94
721	257	0.44	53237	90.15	**768**	25	0.04	58586	99.20	**816**	2	0.00	59024	99.95
722	227	0.38	53464	90.53	**769**	29	0.05	58615	99.25	**817**	5	0.01	59029	99.95
723	252	0.43	53716	90.96	**770**	36	0.06	58651	99.31	**818**	1	0.00	59030	99.96
724	250	0.42	53966	91.38	**771**	19	0.03	58670	99.35	**819**	4	0.01	59034	99.96
725	209	0.35	54175	91.73	**772**	21	0.04	58691	99.38	**820**	2	0.00	59036	99.97
726	199	0.34	54374	92.07	**773**	29	0.05	58720	99.43	**821**	1	0.00	59037	99.97
727	174	0.29	54548	92.37	**774**	24	0.04	58744	99.47	**822**	4	0.01	59041	99.97
728	188	0.32	54736	92.68	**775**	22	0.04	58766	99.51	**824**	1	0.00	59042	99.98
729	178	0.30	54914	92.99	**776**	18	0.03	58784	99.54	**825**	1	0.00	59043	99.98
730	194	0.33	55108	93.31	**777**	17	0.03	58801	99.57	**827**	2	0.00	59045	99.98
731	173	0.29	55281	93.61	**778**	18	0.03	58819	99.60	**828**	2	0.00	59047	99.98
732	172	0.29	55453	93.90	**779**	16	0.03	58835	99.63	**830**	1	0.00	59048	99.99
733	166	0.28	55619	94.18	**780**	16	0.03	58851	99.65	**834**	1	0.00	59049	99.99
734	153	0.26	55772	94.44	**781**	14	0.02	58865	99.68	**838**	1	0.00	59050	99.99
735	173	0.29	55945	94.73	**782**	14	0.02	58879	99.70	**841**	1	0.00	59051	99.99
736	157	0.27	56102	95.00	**783**	8	0.01	58887	99.71	**846**	1	0.00	59052	99.99
737	161	0.27	56263	95.27	**784**	14	0.02	58901	99.74	**848**	1	0.00	59053	99.99
738	140	0.24	56403	95.51	**785**	12	0.02	58913	99.76	**861**	1	0.00	59054	100
739	146	0.25	56549	95.75	**786**	9	0.02	58922	99.77	**867**	1	0.00	59055	100
740	114	0.19	56663	95.95	**787**	7	0.01	58929	99.78	**895**	1	0.00	59056	100
741	119	0.20	56782	96.15	**788**	6	0.01	58935	99.80					
742	108	0.18	56890	96.33	**789**	7	0.01	58942	99.81					
743	100	0.17	56990	96.50	**790**	7	0.01	58949	99.82					
744	120	0.20	57110	96.70	**791**	7	0.01	58956	99.83					
745	115	0.19	57225	96.90	**792**	7	0.01	58963	99.84					
746	111	0.19	57336	97.09	**793**	6	0.01	58969	99.85					
747	104	0.18	57440	97.26	**794**	4	0.01	58973	99.86					
748	81	0.14	57521	97.40	**795**	3	0.01	58976	99.86					
749	81	0.14	57602	97.54	**796**	1	0.00	58977	99.87					
750	63	0.11	57665	97.64	**797**	5	0.01	58982	99.87					
751	90	0.15	57755	97.80	**798**	4	0.01	58986	99.88					
752	90	0.15	57845	97.95	**799**	1	0.00	58987	99.88					
753	65	0.11	57910	98.06	**800**	4	0.01	58991	99.89					
754	59	0.10	57969	98.16	**801**	2	0.00	58993	99.89					
755	65	0.11	58034	98.27	**802**	3	0.01	58996	99.90					
756	64	0.11	58098	98.38	**803**	1	0.00	58997	99.90					
757	63	0.11	58161	98.48	**804**	3	0.01	59000	99.91					
758	57	0.10	58218	98.58	**805**	2	0.00	59002	99.91					

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Table 184. Writing Grade 9 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
260	78	0.13	78	0.13	**320**	4	0.01	166	0.28	**367**	22	0.04	556	0.94
262	1	0.00	79	0.13	**321**	3	0.01	169	0.29	**368**	16	0.03	572	0.97
263	2	0.00	81	0.14	**322**	1	0.00	170	0.29	**369**	16	0.03	588	0.99
264	1	0.00	82	0.14	**323**	2	0.00	172	0.29	**370**	21	0.04	609	1.03
266	2	0.00	84	0.14	**324**	6	0.01	178	0.30	**371**	16	0.03	625	1.06
267	1	0.00	85	0.14	**325**	2	0.00	180	0.30	**372**	21	0.04	646	1.09
268	1	0.00	86	0.15	**326**	8	0.01	188	0.32	**373**	26	0.04	672	1.14
269	2	0.00	88	0.15	**327**	5	0.01	193	0.33	**374**	18	0.03	690	1.17
270	1	0.00	89	0.15	**328**	6	0.01	199	0.34	**375**	13	0.02	703	1.19
271	1	0.00	90	0.15	**329**	5	0.01	204	0.35	**376**	24	0.04	727	1.23
274	3	0.01	93	0.16	**330**	2	0.00	206	0.35	**377**	19	0.03	746	1.26
276	1	0.00	94	0.16	**331**	8	0.01	214	0.36	**378**	18	0.03	764	1.29
277	1	0.00	95	0.16	**332**	5	0.01	219	0.37	**379**	22	0.04	786	1.33
279	2	0.00	97	0.16	**333**	6	0.01	225	0.38	**380**	19	0.03	805	1.36
280	1	0.00	98	0.17	**334**	6	0.01	231	0.39	**381**	22	0.04	827	1.40
282	1	0.00	99	0.17	**335**	5	0.01	236	0.40	**382**	19	0.03	846	1.43
283	1	0.00	100	0.17	**336**	9	0.02	245	0.41	**383**	21	0.04	867	1.47
284	1	0.00	101	0.17	**337**	4	0.01	249	0.42	**384**	19	0.03	886	1.50
285	3	0.01	104	0.18	**338**	10	0.02	259	0.44	**385**	27	0.05	913	1.54
286	1	0.00	105	0.18	**339**	3	0.01	262	0.44	**386**	20	0.03	933	1.58
287	2	0.00	107	0.18	**340**	7	0.01	269	0.46	**387**	33	0.06	966	1.63
288	1	0.00	108	0.18	**341**	6	0.01	275	0.47	**388**	26	0.04	992	1.68
289	2	0.00	110	0.19	**342**	10	0.02	285	0.48	**389**	31	0.05	1023	1.73
290	2	0.00	112	0.19	**343**	8	0.01	293	0.50	**390**	35	0.06	1058	1.79
291	1	0.00	113	0.19	**344**	6	0.01	299	0.51	**391**	24	0.04	1082	1.83
292	1	0.00	114	0.19	**345**	5	0.01	304	0.51	**392**	27	0.05	1109	1.88
293	1	0.00	115	0.19	**346**	9	0.02	313	0.53	**393**	27	0.05	1136	1.92
294	4	0.01	119	0.20	**347**	8	0.01	321	0.54	**394**	29	0.05	1165	1.97
295	4	0.01	123	0.21	**348**	13	0.02	334	0.57	**395**	30	0.05	1195	2.02
296	1	0.00	124	0.21	**349**	12	0.02	346	0.59	**396**	27	0.05	1222	2.07
298	4	0.01	128	0.22	**350**	10	0.02	356	0.60	**397**	39	0.07	1261	2.13
299	2	0.00	130	0.22	**351**	7	0.01	363	0.61	**398**	26	0.04	1287	2.18
300	1	0.00	131	0.22	**352**	8	0.01	371	0.63	**399**	34	0.06	1321	2.24
301	3	0.01	134	0.23	**353**	12	0.02	383	0.65	**400**	37	0.06	1358	2.30
303	1	0.00	135	0.23	**354**	13	0.02	396	0.67	**401**	36	0.06	1394	2.36
304	4	0.01	139	0.24	**355**	10	0.02	406	0.69	**402**	43	0.07	1437	2.43
306	1	0.00	140	0.24	**356**	11	0.02	417	0.71	**403**	35	0.06	1472	2.49
308	1	0.00	141	0.24	**357**	7	0.01	424	0.72	**404**	34	0.06	1506	2.55
309	1	0.00	142	0.24	**358**	11	0.02	435	0.74	**405**	38	0.06	1544	2.61
310	2	0.00	144	0.24	**359**	13	0.02	448	0.76	**406**	31	0.05	1575	2.67
311	4	0.01	148	0.25	**360**	13	0.02	461	0.78	**407**	32	0.05	1607	2.72
312	2	0.00	150	0.25	**361**	14	0.02	475	0.80	**408**	38	0.06	1645	2.78
315	4	0.01	154	0.26	**362**	8	0.01	483	0.82	**409**	53	0.09	1698	2.87
316	4	0.01	158	0.27	**363**	9	0.02	492	0.83	**410**	54	0.09	1752	2.96
317	2	0.00	160	0.27	**364**	14	0.02	506	0.86	**411**	45	0.08	1797	3.04
318	1	0.00	161	0.27	**365**	15	0.03	521	0.88	**412**	45	0.08	1842	3.12
319	1	0.00	162	0.27	**366**	13	0.02	534	0.90	**413**	66	0.11	1908	3.23

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Table 184. Writing Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
414	45	0.08	1953	3.30	**461**	108	0.18	5793	9.80	**508**	206	0.35	14070	23.81
415	50	0.08	2003	3.39	**462**	126	0.21	5919	10.02	**509**	219	0.37	14289	24.18
416	43	0.07	2046	3.46	**463**	116	0.20	6035	10.21	**510**	252	0.43	14541	24.60
417	43	0.07	2089	3.53	**464**	124	0.21	6159	10.42	**511**	237	0.40	14778	25.01
418	36	0.06	2125	3.60	**465**	157	0.27	6316	10.69	**512**	225	0.38	15003	25.39
419	63	0.11	2188	3.70	**466**	160	0.27	6476	10.96	**513**	245	0.41	15248	25.80
420	60	0.10	2248	3.80	**467**	127	0.21	6603	11.17	**514**	243	0.41	15491	26.21
421	46	0.08	2294	3.88	**468**	180	0.30	6783	11.48	**515**	261	0.44	15752	26.65
422	73	0.12	2367	4.01	**469**	148	0.25	6931	11.73	**516**	231	0.39	15983	27.04
423	62	0.10	2429	4.11	**470**	159	0.27	7090	12.00	**517**	241	0.41	16224	27.45
424	63	0.11	2492	4.22	**471**	157	0.27	7247	12.26	**518**	238	0.40	16462	27.86
425	53	0.09	2545	4.31	**472**	147	0.25	7394	12.51	**519**	256	0.43	16718	28.29
426	76	0.13	2621	4.44	**473**	148	0.25	7542	12.76	**520**	258	0.44	16976	28.73
427	72	0.12	2693	4.56	**474**	145	0.25	7687	13.01	**521**	247	0.42	17223	29.14
428	56	0.09	2749	4.65	**475**	142	0.24	7829	13.25	**522**	264	0.45	17487	29.59
429	56	0.09	2805	4.75	**476**	139	0.24	7968	13.48	**523**	281	0.48	17768	30.07
430	71	0.12	2876	4.87	**477**	163	0.28	8131	13.76	**524**	284	0.48	18052	30.55
431	67	0.11	2943	4.98	**478**	159	0.27	8290	14.03	**525**	307	0.52	18359	31.07
432	71	0.12	3014	5.10	**479**	169	0.29	8459	14.31	**526**	278	0.47	18637	31.54
433	75	0.13	3089	5.23	**480**	173	0.29	8632	14.61	**527**	250	0.42	18887	31.96
434	71	0.12	3160	5.35	**481**	165	0.28	8797	14.89	**528**	301	0.51	19188	32.47
435	68	0.12	3228	5.46	**482**	173	0.29	8970	15.18	**529**	278	0.47	19466	32.94
436	91	0.15	3319	5.62	**483**	186	0.31	9156	15.49	**530**	315	0.53	19781	33.47
437	76	0.13	3395	5.74	**484**	155	0.26	9311	15.76	**531**	309	0.52	20090	33.99
438	70	0.12	3465	5.86	**485**	194	0.33	9505	16.08	**532**	294	0.50	20384	34.49
439	76	0.13	3541	5.99	**486**	194	0.33	9699	16.41	**533**	286	0.48	20670	34.98
440	81	0.14	3622	6.13	**487**	178	0.30	9877	16.71	**534**	300	0.51	20970	35.48
441	91	0.15	3713	6.28	**488**	169	0.29	10046	17.00	**535**	271	0.46	21241	35.94
442	90	0.15	3803	6.44	**489**	200	0.34	10246	17.34	**536**	300	0.51	21541	36.45
443	93	0.16	3896	6.59	**490**	192	0.32	10438	17.66	**537**	323	0.55	21864	37.00
444	98	0.17	3994	6.76	**491**	196	0.33	10634	17.99	**538**	298	0.50	22162	37.50
445	96	0.16	4090	6.92	**492**	168	0.28	10802	18.28	**539**	324	0.55	22486	38.05
446	89	0.15	4179	7.07	**493**	180	0.30	10982	18.58	**540**	286	0.48	22772	38.53
447	109	0.18	4288	7.26	**494**	172	0.29	11154	18.87	**541**	312	0.53	23084	39.06
448	106	0.18	4394	7.44	**495**	193	0.33	11347	19.20	**542**	311	0.53	23395	39.59
449	102	0.17	4496	7.61	**496**	183	0.31	11530	19.51	**543**	306	0.52	23701	40.10
450	98	0.17	4594	7.77	**497**	175	0.30	11705	19.81	**544**	313	0.53	24014	40.63
451	104	0.18	4698	7.95	**498**	223	0.38	11928	20.18	**545**	280	0.47	24294	41.11
452	120	0.20	4818	8.15	**499**	220	0.37	12148	20.56	**546**	297	0.50	24591	41.61
453	94	0.16	4912	8.31	**500**	201	0.34	12349	20.90	**547**	289	0.49	24880	42.10
454	99	0.17	5011	8.48	**501**	208	0.35	12557	21.25	**548**	283	0.48	25163	42.58
455	106	0.18	5117	8.66	**502**	194	0.33	12751	21.58	**549**	336	0.57	25499	43.15
456	101	0.17	5218	8.83	**503**	201	0.34	12952	21.92	**550**	313	0.53	25812	43.68
457	118	0.20	5336	9.03	**504**	216	0.37	13168	22.28	**551**	294	0.50	26106	44.17
458	127	0.21	5463	9.24	**505**	235	0.40	13403	22.68	**552**	333	0.56	26439	44.74
459	123	0.21	5586	9.45	**506**	227	0.38	13630	23.06	**553**	284	0.48	26723	45.22
460	99	0.17	5685	9.62	**507**	234	0.40	13864	23.46	**554**	316	0.53	27039	45.75

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Table 184. Writing Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
555	332	0.56	27371	46.31	**602**	278	0.47	41913	70.92	**649**	156	0.26	51996	87.98
556	324	0.55	27695	46.86	**603**	280	0.47	42193	71.39	**650**	163	0.28	52159	88.26
557	296	0.50	27991	47.36	**604**	274	0.46	42467	71.86	**651**	143	0.24	52302	88.50
558	317	0.54	28308	47.90	**605**	250	0.42	42717	72.28	**652**	139	0.24	52441	88.74
559	325	0.55	28633	48.45	**606**	256	0.43	42973	72.71	**653**	150	0.25	52591	88.99
560	322	0.54	28955	48.99	**607**	284	0.48	43257	73.20	**654**	135	0.23	52726	89.22
561	325	0.55	29280	49.54	**608**	299	0.51	43556	73.70	**655**	123	0.21	52849	89.43
562	336	0.57	29616	50.11	**609**	244	0.41	43800	74.11	**656**	140	0.24	52989	89.66
563	320	0.54	29936	50.65	**610**	257	0.43	44057	74.55	**657**	121	0.20	53110	89.87
564	329	0.56	30265	51.21	**611**	248	0.42	44305	74.97	**658**	116	0.20	53226	90.06
565	342	0.58	30607	51.79	**612**	235	0.40	44540	75.37	**659**	146	0.25	53372	90.31
566	339	0.57	30946	52.36	**613**	243	0.41	44783	75.78	**660**	123	0.21	53495	90.52
567	319	0.54	31265	52.90	**614**	247	0.42	45030	76.20	**661**	121	0.20	53616	90.72
568	304	0.51	31569	53.42	**615**	258	0.44	45288	76.63	**662**	114	0.19	53730	90.92
569	305	0.52	31874	53.93	**616**	243	0.41	45531	77.04	**663**	120	0.20	53850	91.12
570	309	0.52	32183	54.46	**617**	239	0.40	45770	77.45	**664**	103	0.17	53953	91.29
571	337	0.57	32520	55.03	**618**	243	0.41	46013	77.86	**665**	110	0.19	54063	91.48
572	354	0.60	32874	55.63	**619**	244	0.41	46257	78.27	**666**	113	0.19	54176	91.67
573	311	0.53	33185	56.15	**620**	216	0.37	46473	78.64	**667**	116	0.20	54292	91.87
574	328	0.56	33513	56.71	**621**	226	0.38	46699	79.02	**668**	110	0.19	54402	92.05
575	292	0.49	33805	57.20	**622**	249	0.42	46948	79.44	**669**	99	0.17	54501	92.22
576	302	0.51	34107	57.71	**623**	240	0.41	47188	79.85	**670**	103	0.17	54604	92.40
577	316	0.53	34423	58.25	**624**	246	0.42	47434	80.26	**671**	97	0.16	54701	92.56
578	333	0.56	34756	58.81	**625**	220	0.37	47654	80.64	**672**	101	0.17	54802	92.73
579	314	0.53	35070	59.34	**626**	212	0.36	47866	80.99	**673**	83	0.14	54885	92.87
580	340	0.58	35410	59.92	**627**	229	0.39	48095	81.38	**674**	107	0.18	54992	93.05
581	327	0.55	35737	60.47	**628**	219	0.37	48314	81.75	**675**	104	0.18	55096	93.23
582	266	0.45	36003	60.92	**629**	212	0.36	48526	82.11	**676**	72	0.12	55168	93.35
583	281	0.48	36284	61.40	**630**	197	0.33	48723	82.44	**677**	79	0.13	55247	93.48
584	321	0.54	36605	61.94	**631**	224	0.38	48947	82.82	**678**	89	0.15	55336	93.63
585	300	0.51	36905	62.45	**632**	182	0.31	49129	83.13	**679**	95	0.16	55431	93.80
586	317	0.54	37222	62.98	**633**	183	0.31	49312	83.44	**680**	87	0.15	55518	93.94
587	307	0.52	37529	63.50	**634**	190	0.32	49502	83.76	**681**	90	0.15	55608	94.09
588	280	0.47	37809	63.98	**635**	201	0.34	49703	84.10	**682**	76	0.13	55684	94.22
589	329	0.56	38138	64.53	**636**	167	0.28	49870	84.39	**683**	84	0.14	55768	94.37
590	303	0.51	38441	65.05	**637**	178	0.30	50048	84.69	**684**	72	0.12	55840	94.49
591	298	0.50	38739	65.55	**638**	180	0.30	50228	84.99	**685**	74	0.13	55914	94.61
592	324	0.55	39063	66.10	**639**	170	0.29	50398	85.28	**686**	75	0.13	55989	94.74
593	300	0.51	39363	66.61	**640**	171	0.29	50569	85.57	**687**	74	0.13	56063	94.86
594	300	0.51	39663	67.11	**641**	198	0.34	50767	85.90	**688**	74	0.13	56137	94.99
595	288	0.49	39951	67.60	**642**	156	0.26	50923	86.17	**689**	73	0.12	56210	95.11
596	277	0.47	40228	68.07	**643**	152	0.26	51075	86.42	**690**	62	0.10	56272	95.22
597	249	0.42	40477	68.49	**644**	173	0.29	51248	86.72	**691**	65	0.11	56337	95.33
598	279	0.47	40756	68.96	**645**	136	0.23	51384	86.95	**692**	65	0.11	56402	95.44
599	293	0.50	41049	69.46	**646**	164	0.28	51548	87.22	**693**	67	0.11	56469	95.55
600	289	0.49	41338	69.95	**647**	150	0.25	51698	87.48	**694**	51	0.09	56520	95.64
601	297	0.50	41635	70.45	**648**	142	0.24	51840	87.72	**695**	56	0.09	56576	95.73

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Table 184. Writing Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
696	62	0.10	56638	95.84	**743**	17	0.03	58318	98.68	**790**	19	0.03	58823	99.53
697	42	0.07	56680	95.91	**744**	13	0.02	58331	98.70	**791**	2	0.00	58825	99.54
698	56	0.09	56736	96.00	**745**	20	0.03	58351	98.74	**792**	2	0.00	58827	99.54
699	55	0.09	56791	96.10	**746**	13	0.02	58364	98.76	**793**	6	0.01	58833	99.55
700	59	0.10	56850	96.20	**747**	9	0.02	58373	98.77	**794**	7	0.01	58840	99.56
701	56	0.09	56906	96.29	**748**	21	0.04	58394	98.81	**795**	3	0.01	58843	99.57
702	46	0.08	56952	96.37	**749**	6	0.01	58400	98.82	**796**	7	0.01	58850	99.58
703	45	0.08	56997	96.44	**750**	28	0.05	58428	98.87	**797**	2	0.00	58852	99.58
704	49	0.08	57046	96.53	**751**	15	0.03	58443	98.89	**798**	5	0.01	58857	99.59
705	65	0.11	57111	96.64	**752**	12	0.02	58455	98.91	**799**	2	0.00	58859	99.60
706	47	0.08	57158	96.72	**753**	15	0.03	58470	98.94	**800**	2	0.00	58861	99.60
707	61	0.10	57219	96.82	**754**	14	0.02	58484	98.96	**801**	7	0.01	58868	99.61
708	40	0.07	57259	96.89	**755**	7	0.01	58491	98.97	**802**	12	0.02	58880	99.63
709	35	0.06	57294	96.95	**756**	14	0.02	58505	99.00	**804**	3	0.01	58883	99.64
710	35	0.06	57329	97.01	**757**	21	0.04	58526	99.03	**805**	6	0.01	58889	99.65
711	42	0.07	57371	97.08	**758**	10	0.02	58536	99.05	**806**	4	0.01	58893	99.65
712	44	0.07	57415	97.15	**759**	12	0.02	58548	99.07	**807**	2	0.00	58895	99.66
713	39	0.07	57454	97.22	**760**	6	0.01	58554	99.08	**808**	4	0.01	58899	99.66
714	40	0.07	57494	97.29	**761**	13	0.02	58567	99.10	**809**	1	0.00	58900	99.66
715	39	0.07	57533	97.35	**762**	13	0.02	58580	99.12	**810**	3	0.01	58903	99.67
716	31	0.05	57564	97.40	**763**	13	0.02	58593	99.15	**811**	15	0.03	58918	99.70
717	38	0.06	57602	97.47	**764**	12	0.02	58605	99.17	**812**	3	0.01	58921	99.70
718	33	0.06	57635	97.52	**765**	10	0.02	58615	99.18	**813**	1	0.00	58922	99.70
719	40	0.07	57675	97.59	**766**	10	0.02	58625	99.20	**815**	2	0.00	58924	99.71
720	35	0.06	57710	97.65	**767**	5	0.01	58630	99.21	**816**	12	0.02	58936	99.73
721	27	0.05	57737	97.70	**768**	13	0.02	58643	99.23	**817**	3	0.01	58939	99.73
722	38	0.06	57775	97.76	**769**	7	0.01	58650	99.24	**818**	3	0.01	58942	99.74
723	31	0.05	57806	97.81	**770**	7	0.01	58657	99.25	**819**	3	0.01	58945	99.74
724	28	0.05	57834	97.86	**771**	25	0.04	58682	99.30	**820**	1	0.00	58946	99.74
725	32	0.05	57866	97.92	**772**	6	0.01	58688	99.31	**821**	3	0.01	58949	99.75
726	28	0.05	57894	97.96	**773**	8	0.01	58696	99.32	**822**	4	0.01	58953	99.75
727	34	0.06	57928	98.02	**774**	13	0.02	58709	99.34	**823**	4	0.01	58957	99.76
728	27	0.05	57955	98.07	**775**	6	0.01	58715	99.35	**825**	5	0.01	58962	99.77
729	40	0.07	57995	98.13	**776**	4	0.01	58719	99.36	**826**	2	0.00	58964	99.77
730	31	0.05	58026	98.19	**777**	4	0.01	58723	99.37	**827**	3	0.01	58967	99.78
731	26	0.04	58052	98.23	**778**	7	0.01	58730	99.38	**828**	5	0.01	58972	99.79
732	20	0.03	58072	98.26	**779**	6	0.01	58736	99.39	**829**	1	0.00	58973	99.79
733	24	0.04	58096	98.30	**780**	6	0.01	58742	99.40	**830**	1	0.00	58974	99.79
734	19	0.03	58115	98.34	**781**	4	0.01	58746	99.40	**831**	3	0.01	58977	99.80
735	31	0.05	58146	98.39	**782**	10	0.02	58756	99.42	**832**	3	0.01	58980	99.80
736	28	0.05	58174	98.44	**783**	6	0.01	58762	99.43	**834**	2	0.00	58982	99.80
737	28	0.05	58202	98.48	**784**	10	0.02	58772	99.45	**835**	4	0.01	58986	99.81
738	13	0.02	58215	98.51	**785**	9	0.02	58781	99.46	**838**	2	0.00	58988	99.81
739	18	0.03	58233	98.54	**786**	6	0.01	58787	99.47	**840**	2	0.00	58990	99.82
740	28	0.05	58261	98.58	**787**	4	0.01	58791	99.48	**845**	6	0.01	58996	99.83
741	19	0.03	58280	98.62	**788**	4	0.01	58795	99.49	**846**	2	0.00	58998	99.83
742	21	0.04	58301	98.65	**789**	9	0.02	58804	99.50	**847**	8	0.01	59006	99.84

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Table 184. Writing Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
848	9	0.02	59015	99.86
852	2	0.00	59017	99.86
854	1	0.00	59018	99.86
859	2	0.00	59020	99.87
862	1	0.00	59021	99.87
863	11	0.02	59032	99.89
864	3	0.01	59035	99.89
868	1	0.00	59036	99.90
872	4	0.01	59040	99.90
880	2	0.00	59042	99.91
881	7	0.01	59049	99.92
882	5	0.01	59054	99.93
889	2	0.00	59056	99.93
893	8	0.01	59064	99.94
900	5	0.01	59069	99.95
903	1	0.00	59070	99.95
908	3	0.01	59073	99.96
930	25	0.04	59098	100

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Table 185. Mathematics Grade 9 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
340	668	1.13	668	1.13	**387**	17	0.03	1045	1.77	**434**	30	0.05	2216	3.75
341	3	0.01	671	1.13	**388**	16	0.03	1061	1.79	**435**	33	0.06	2249	3.80
342	5	0.01	676	1.14	**389**	24	0.04	1085	1.83	**436**	47	0.08	2296	3.88
343	3	0.01	679	1.15	**390**	14	0.02	1099	1.86	**437**	34	0.06	2330	3.94
344	5	0.01	684	1.16	**391**	11	0.02	1110	1.88	**438**	46	0.08	2376	4.02
345	5	0.01	689	1.16	**392**	16	0.03	1126	1.90	**439**	46	0.08	2422	4.10
346	6	0.01	695	1.18	**393**	6	0.01	1132	1.91	**440**	54	0.09	2476	4.19
347	2	0.00	697	1.18	**394**	23	0.04	1155	1.95	**441**	46	0.08	2522	4.26
348	4	0.01	701	1.19	**395**	16	0.03	1171	1.98	**442**	58	0.10	2580	4.36
349	8	0.01	709	1.20	**396**	18	0.03	1189	2.01	**443**	48	0.08	2628	4.44
350	4	0.01	713	1.21	**397**	17	0.03	1206	2.04	**444**	41	0.07	2669	4.51
351	6	0.01	719	1.22	**398**	14	0.02	1220	2.06	**445**	41	0.07	2710	4.58
352	1	0.00	720	1.22	**399**	19	0.03	1239	2.09	**446**	59	0.10	2769	4.68
353	8	0.01	728	1.23	**400**	17	0.03	1256	2.12	**447**	58	0.10	2827	4.78
354	4	0.01	732	1.24	**401**	13	0.02	1269	2.15	**448**	44	0.07	2871	4.85
355	5	0.01	737	1.25	**402**	22	0.04	1291	2.18	**449**	58	0.10	2929	4.95
356	6	0.01	743	1.26	**403**	20	0.03	1311	2.22	**450**	64	0.11	2993	5.06
357	3	0.01	746	1.26	**404**	21	0.04	1332	2.25	**451**	46	0.08	3039	5.14
358	7	0.01	753	1.27	**405**	22	0.04	1354	2.29	**452**	46	0.08	3085	5.22
359	7	0.01	760	1.28	**406**	19	0.03	1373	2.32	**453**	56	0.09	3141	5.31
360	12	0.02	772	1.31	**407**	32	0.05	1405	2.38	**454**	54	0.09	3195	5.40
361	6	0.01	778	1.32	**408**	22	0.04	1427	2.41	**455**	66	0.11	3261	5.51
362	15	0.03	793	1.34	**409**	23	0.04	1450	2.45	**456**	43	0.07	3304	5.59
363	6	0.01	799	1.35	**410**	14	0.02	1464	2.48	**457**	47	0.08	3351	5.67
364	6	0.01	805	1.36	**411**	22	0.04	1486	2.51	**458**	67	0.11	3418	5.78
365	10	0.02	815	1.38	**412**	24	0.04	1510	2.55	**459**	62	0.10	3480	5.88
366	4	0.01	819	1.38	**413**	24	0.04	1534	2.59	**460**	55	0.09	3535	5.98
367	6	0.01	825	1.39	**414**	27	0.05	1561	2.64	**461**	55	0.09	3590	6.07
368	12	0.02	837	1.42	**415**	22	0.04	1583	2.68	**462**	76	0.13	3666	6.20
369	7	0.01	844	1.43	**416**	24	0.04	1607	2.72	**463**	65	0.11	3731	6.31
370	10	0.02	854	1.44	**417**	24	0.04	1631	2.76	**464**	81	0.14	3812	6.45
371	10	0.02	864	1.46	**418**	31	0.05	1662	2.81	**465**	65	0.11	3877	6.56
372	3	0.01	867	1.47	**419**	29	0.05	1691	2.86	**466**	89	0.15	3966	6.71
373	13	0.02	880	1.49	**420**	26	0.04	1717	2.90	**467**	90	0.15	4056	6.86
374	13	0.02	893	1.51	**421**	27	0.05	1744	2.95	**468**	70	0.12	4126	6.98
375	13	0.02	906	1.53	**422**	29	0.05	1773	3.00	**469**	85	0.14	4211	7.12
376	13	0.02	919	1.55	**423**	28	0.05	1801	3.05	**470**	81	0.14	4292	7.26
377	10	0.02	929	1.57	**424**	32	0.05	1833	3.10	**471**	99	0.17	4391	7.42
378	12	0.02	941	1.59	**425**	38	0.06	1871	3.16	**472**	90	0.15	4481	7.58
379	6	0.01	947	1.60	**426**	38	0.06	1909	3.23	**473**	77	0.13	4558	7.71
380	12	0.02	959	1.62	**427**	44	0.07	1953	3.30	**474**	77	0.13	4635	7.84
381	8	0.01	967	1.63	**428**	32	0.05	1985	3.36	**475**	87	0.15	4722	7.98
382	16	0.03	983	1.66	**429**	39	0.07	2024	3.42	**476**	82	0.14	4804	8.12
383	12	0.02	995	1.68	**430**	38	0.06	2062	3.49	**477**	92	0.16	4896	8.28
384	10	0.02	1005	1.70	**431**	32	0.05	2094	3.54	**478**	88	0.15	4984	8.43
385	10	0.02	1015	1.72	**432**	44	0.07	2138	3.61	**479**	95	0.16	5079	8.59
386	13	0.02	1028	1.74	**433**	48	0.08	2186	3.70	**480**	113	0.19	5192	8.78

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Table 185. Mathematics Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
481	104	0.18	5296	8.95	**528**	231	0.39	12801	21.64	**575**	364	0.62	26449	44.72
482	104	0.18	5400	9.13	**529**	216	0.37	13017	22.01	**576**	363	0.61	26812	45.33
483	92	0.16	5492	9.29	**530**	241	0.41	13258	22.42	**577**	332	0.56	27144	45.89
484	99	0.17	5591	9.45	**531**	237	0.40	13495	22.82	**578**	359	0.61	27503	46.50
485	127	0.21	5718	9.67	**532**	232	0.39	13727	23.21	**579**	346	0.59	27849	47.09
486	103	0.17	5821	9.84	**533**	244	0.41	13971	23.62	**580**	334	0.56	28183	47.65
487	104	0.18	5925	10.02	**534**	259	0.44	14230	24.06	**581**	379	0.64	28562	48.29
488	118	0.20	6043	10.22	**535**	248	0.42	14478	24.48	**582**	352	0.60	28914	48.89
489	95	0.16	6138	10.38	**536**	266	0.45	14744	24.93	**583**	303	0.51	29217	49.40
490	129	0.22	6267	10.60	**537**	265	0.45	15009	25.38	**584**	309	0.52	29526	49.92
491	115	0.19	6382	10.79	**538**	265	0.45	15274	25.83	**585**	347	0.59	29873	50.51
492	134	0.23	6516	11.02	**539**	264	0.45	15538	26.27	**586**	383	0.65	30256	51.16
493	144	0.24	6660	11.26	**540**	246	0.42	15784	26.69	**587**	354	0.60	30610	51.76
494	113	0.19	6773	11.45	**541**	262	0.44	16046	27.13	**588**	356	0.60	30966	52.36
495	144	0.24	6917	11.70	**542**	254	0.43	16300	27.56	**589**	357	0.60	31323	52.96
496	141	0.24	7058	11.93	**543**	283	0.48	16583	28.04	**590**	318	0.54	31641	53.50
497	144	0.24	7202	12.18	**544**	269	0.45	16852	28.49	**591**	319	0.54	31960	54.04
498	141	0.24	7343	12.42	**545**	258	0.44	17110	28.93	**592**	359	0.61	32319	54.64
499	136	0.23	7479	12.65	**546**	267	0.45	17377	29.38	**593**	318	0.54	32637	55.18
500	157	0.27	7636	12.91	**547**	304	0.51	17681	29.89	**594**	376	0.64	33013	55.82
501	146	0.25	7782	13.16	**548**	310	0.52	17991	30.42	**595**	339	0.57	33352	56.39
502	150	0.25	7932	13.41	**549**	264	0.45	18255	30.87	**596**	356	0.60	33708	56.99
503	151	0.26	8083	13.67	**550**	271	0.46	18526	31.32	**597**	380	0.64	34088	57.64
504	161	0.27	8244	13.94	**551**	278	0.47	18804	31.79	**598**	361	0.61	34449	58.25
505	187	0.32	8431	14.26	**552**	315	0.53	19119	32.33	**599**	374	0.63	34823	58.88
506	170	0.29	8601	14.54	**553**	311	0.53	19430	32.85	**600**	352	0.60	35175	59.47
507	164	0.28	8765	14.82	**554**	303	0.51	19733	33.36	**601**	339	0.57	35514	60.05
508	169	0.29	8934	15.11	**555**	297	0.50	20030	33.87	**602**	336	0.57	35850	60.61
509	155	0.26	9089	15.37	**556**	311	0.53	20341	34.39	**603**	359	0.61	36209	61.22
510	151	0.26	9240	15.62	**557**	298	0.50	20639	34.90	**604**	349	0.59	36558	61.81
511	181	0.31	9421	15.93	**558**	286	0.48	20925	35.38	**605**	375	0.63	36933	62.45
512	167	0.28	9588	16.21	**559**	323	0.55	21248	35.93	**606**	358	0.61	37291	63.05
513	182	0.31	9770	16.52	**560**	323	0.55	21571	36.47	**607**	371	0.63	37662	63.68
514	186	0.31	9956	16.83	**561**	303	0.51	21874	36.98	**608**	366	0.62	38028	64.30
515	183	0.31	10139	17.14	**562**	319	0.54	22193	37.52	**609**	386	0.65	38414	64.95
516	180	0.30	10319	17.45	**563**	301	0.51	22494	38.03	**610**	349	0.59	38763	65.54
517	189	0.32	10508	17.77	**564**	342	0.58	22836	38.61	**611**	333	0.56	39096	66.10
518	164	0.28	10672	18.04	**565**	335	0.57	23171	39.18	**612**	351	0.59	39447	66.70
519	194	0.33	10866	18.37	**566**	325	0.55	23496	39.73	**613**	338	0.57	39785	67.27
520	186	0.31	11052	18.69	**567**	295	0.50	23791	40.23	**614**	352	0.60	40137	67.86
521	218	0.37	11270	19.06	**568**	339	0.57	24130	40.80	**615**	329	0.56	40466	68.42
522	232	0.39	11502	19.45	**569**	318	0.54	24448	41.34	**616**	304	0.51	40770	68.93
523	213	0.36	11715	19.81	**570**	318	0.54	24766	41.87	**617**	328	0.55	41098	69.49
524	227	0.38	11942	20.19	**571**	346	0.59	25112	42.46	**618**	322	0.54	41420	70.03
525	219	0.37	12161	20.56	**572**	324	0.55	25436	43.01	**619**	333	0.56	41753	70.60
526	214	0.36	12375	20.92	**573**	324	0.55	25760	43.55	**620**	333	0.56	42086	71.16
527	195	0.33	12570	21.25	**574**	325	0.55	26085	44.10	**621**	345	0.58	42431	71.74

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Table 185. Mathematics Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
622	357	0.60	42788	72.35	**669**	174	0.29	54443	92.05	**716**	36	0.06	58442	98.81
623	312	0.53	43100	72.87	**670**	173	0.29	54616	92.34	**717**	35	0.06	58477	98.87
624	285	0.48	43385	73.35	**671**	177	0.30	54793	92.64	**718**	29	0.05	58506	98.92
625	324	0.55	43709	73.90	**672**	144	0.24	54937	92.89	**719**	23	0.04	58529	98.96
626	298	0.50	44007	74.41	**673**	156	0.26	55093	93.15	**720**	24	0.04	58553	99.00
627	306	0.52	44313	74.92	**674**	151	0.26	55244	93.41	**721**	29	0.05	58582	99.05
628	294	0.50	44607	75.42	**675**	156	0.26	55400	93.67	**722**	19	0.03	58601	99.08
629	334	0.56	44941	75.99	**676**	130	0.22	55530	93.89	**723**	27	0.05	58628	99.13
630	272	0.46	45213	76.45	**677**	126	0.21	55656	94.10	**724**	21	0.04	58649	99.16
631	279	0.47	45492	76.92	**678**	125	0.21	55781	94.31	**725**	25	0.04	58674	99.21
632	302	0.51	45794	77.43	**679**	118	0.20	55899	94.51	**726**	25	0.04	58699	99.25
633	322	0.54	46116	77.97	**680**	119	0.20	56018	94.71	**727**	15	0.03	58714	99.27
634	278	0.47	46394	78.44	**681**	109	0.18	56127	94.90	**728**	30	0.05	58744	99.32
635	324	0.55	46718	78.99	**682**	98	0.17	56225	95.06	**729**	16	0.03	58760	99.35
636	279	0.47	46997	79.46	**683**	123	0.21	56348	95.27	**730**	17	0.03	58777	99.38
637	281	0.48	47278	79.94	**684**	104	0.18	56452	95.45	**731**	21	0.04	58798	99.41
638	265	0.45	47543	80.39	**685**	98	0.17	56550	95.61	**732**	19	0.03	58817	99.45
639	277	0.47	47820	80.85	**686**	82	0.14	56632	95.75	**733**	20	0.03	58837	99.48
640	291	0.49	48111	81.35	**687**	97	0.16	56729	95.92	**734**	21	0.04	58858	99.52
641	274	0.46	48385	81.81	**688**	84	0.14	56813	96.06	**735**	12	0.02	58870	99.54
642	259	0.44	48644	82.25	**689**	71	0.12	56884	96.18	**736**	9	0.02	58879	99.55
643	228	0.39	48872	82.63	**690**	81	0.14	56965	96.32	**737**	17	0.03	58896	99.58
644	262	0.44	49134	83.08	**691**	68	0.11	57033	96.43	**738**	17	0.03	58913	99.61
645	287	0.49	49421	83.56	**692**	91	0.15	57124	96.58	**739**	8	0.01	58921	99.62
646	231	0.39	49652	83.95	**693**	67	0.11	57191	96.70	**740**	18	0.03	58939	99.65
647	239	0.40	49891	84.36	**694**	80	0.14	57271	96.83	**741**	6	0.01	58945	99.66
648	247	0.42	50138	84.77	**695**	86	0.15	57357	96.98	**742**	12	0.02	58957	99.68
649	260	0.44	50398	85.21	**696**	77	0.13	57434	97.11	**743**	9	0.02	58966	99.70
650	222	0.38	50620	85.59	**697**	67	0.11	57501	97.22	**744**	10	0.02	58976	99.72
651	264	0.45	50884	86.03	**698**	82	0.14	57583	97.36	**745**	7	0.01	58983	99.73
652	255	0.43	51139	86.47	**699**	68	0.11	57651	97.48	**746**	7	0.01	58990	99.74
653	213	0.36	51352	86.83	**700**	60	0.10	57711	97.58	**747**	5	0.01	58995	99.75
654	190	0.32	51542	87.15	**701**	61	0.10	57772	97.68	**748**	5	0.01	59000	99.76
655	222	0.38	51764	87.52	**702**	55	0.09	57827	97.77	**749**	7	0.01	59007	99.77
656	210	0.36	51974	87.88	**703**	46	0.08	57873	97.85	**750**	8	0.01	59015	99.78
657	214	0.36	52188	88.24	**704**	51	0.09	57924	97.94	**751**	6	0.01	59021	99.79
658	231	0.39	52419	88.63	**705**	64	0.11	57988	98.05	**752**	7	0.01	59028	99.80
659	214	0.36	52633	88.99	**706**	45	0.08	58033	98.12	**753**	3	0.01	59031	99.81
660	200	0.34	52833	89.33	**707**	51	0.09	58084	98.21	**754**	3	0.01	59034	99.81
661	193	0.33	53026	89.66	**708**	49	0.08	58133	98.29	**755**	5	0.01	59039	99.82
662	184	0.31	53210	89.97	**709**	40	0.07	58173	98.36	**756**	7	0.01	59046	99.83
663	173	0.29	53383	90.26	**710**	45	0.08	58218	98.43	**757**	3	0.01	59049	99.84
664	177	0.30	53560	90.56	**711**	48	0.08	58266	98.52	**758**	3	0.01	59052	99.84
665	176	0.30	53736	90.86	**712**	34	0.06	58300	98.57	**759**	3	0.01	59055	99.85
666	181	0.31	53917	91.16	**713**	40	0.07	58340	98.64	**760**	2	0.00	59057	99.85
667	191	0.32	54108	91.49	**714**	40	0.07	58380	98.71	**761**	5	0.01	59062	99.86
668	161	0.27	54269	91.76	**715**	26	0.04	58406	98.75	**762**	5	0.01	59067	99.87

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Table 185. Mathematics Grade 9 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
763	4	0.01	59071	99.88
764	3	0.01	59074	99.88
765	5	0.01	59079	99.89
766	4	0.01	59083	99.90
767	3	0.01	59086	99.90
768	5	0.01	59091	99.91
769	5	0.01	59096	99.92
770	2	0.00	59098	99.92
773	2	0.00	59100	99.93
775	1	0.00	59101	99.93
776	1	0.00	59102	99.93
777	1	0.00	59103	99.93
778	1	0.00	59104	99.93
779	2	0.00	59106	99.94
780	1	0.00	59107	99.94
781	2	0.00	59109	99.94
782	2	0.00	59111	99.94
783	1	0.00	59112	99.95
784	2	0.00	59114	99.95
787	1	0.00	59115	99.95
788	2	0.00	59117	99.95
789	1	0.00	59118	99.96
790	1	0.00	59119	99.96
792	2	0.00	59121	99.96
793	1	0.00	59122	99.96
794	1	0.00	59123	99.96
797	1	0.00	59124	99.97
798	1	0.00	59125	99.97
800	1	0.00	59126	99.97
802	1	0.00	59127	99.97
805	2	0.00	59129	99.97
806	1	0.00	59130	99.98
823	2	0.00	59132	99.98
826	1	0.00	59133	99.98
841	3	0.01	59136	99.99
850	1	0.00	59137	99.99
853	1	0.00	59138	99.99
863	2	0.00	59140	99.99
902	1	0.00	59141	99.99
920	3	0.01	59144	100

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Table 186. Reading Grade 10 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
370	255	0.46	255	0.46	**451**	1	0.00	324	0.59	**499**	7	0.01	544	0.98
373	1	0.00	256	0.46	**452**	5	0.01	329	0.60	**500**	10	0.02	554	1.00
375	1	0.00	257	0.47	**453**	1	0.00	330	0.60	**501**	8	0.01	562	1.02
379	1	0.00	258	0.47	**454**	2	0.00	332	0.60	**502**	14	0.03	576	1.04
381	1	0.00	259	0.47	**455**	4	0.01	336	0.61	**503**	11	0.02	587	1.06
388	1	0.00	260	0.47	**456**	2	0.00	338	0.61	**504**	9	0.02	596	1.08
392	1	0.00	261	0.47	**457**	5	0.01	343	0.62	**505**	8	0.01	604	1.09
393	1	0.00	262	0.47	**458**	1	0.00	344	0.62	**506**	7	0.01	611	1.11
394	1	0.00	263	0.48	**459**	3	0.01	347	0.63	**507**	9	0.02	620	1.12
399	2	0.00	265	0.48	**460**	2	0.00	349	0.63	**508**	3	0.01	623	1.13
400	2	0.00	267	0.48	**461**	4	0.01	353	0.64	**509**	13	0.02	636	1.15
401	1	0.00	268	0.49	**462**	4	0.01	357	0.65	**510**	9	0.02	645	1.17
402	1	0.00	269	0.49	**463**	6	0.01	363	0.66	**511**	11	0.02	656	1.19
404	1	0.00	270	0.49	**464**	1	0.00	364	0.66	**512**	14	0.03	670	1.21
405	1	0.00	271	0.49	**466**	3	0.01	367	0.66	**513**	15	0.03	685	1.24
408	1	0.00	272	0.49	**467**	2	0.00	369	0.67	**514**	9	0.02	694	1.26
410	1	0.00	273	0.49	**468**	5	0.01	374	0.68	**515**	13	0.02	707	1.28
411	1	0.00	274	0.50	**469**	2	0.00	376	0.68	**516**	17	0.03	724	1.31
412	1	0.00	275	0.50	**470**	8	0.01	384	0.70	**517**	17	0.03	741	1.34
414	1	0.00	276	0.50	**471**	2	0.00	386	0.70	**518**	16	0.03	757	1.37
419	1	0.00	277	0.50	**472**	3	0.01	389	0.70	**519**	16	0.03	773	1.40
421	1	0.00	278	0.50	**473**	8	0.01	397	0.72	**520**	13	0.02	786	1.42
422	1	0.00	279	0.51	**474**	7	0.01	404	0.73	**521**	22	0.04	808	1.46
423	1	0.00	280	0.51	**475**	4	0.01	408	0.74	**522**	10	0.02	818	1.48
425	2	0.00	282	0.51	**476**	4	0.01	412	0.75	**523**	15	0.03	833	1.51
428	1	0.00	283	0.51	**477**	3	0.01	415	0.75	**524**	11	0.02	844	1.53
429	4	0.01	287	0.52	**478**	3	0.01	418	0.76	**525**	18	0.03	862	1.56
430	2	0.00	289	0.52	**479**	9	0.02	427	0.77	**526**	15	0.03	877	1.59
431	1	0.00	290	0.53	**480**	8	0.01	435	0.79	**527**	16	0.03	893	1.62
432	2	0.00	292	0.53	**481**	4	0.01	439	0.79	**528**	24	0.04	917	1.66
433	1	0.00	293	0.53	**482**	7	0.01	446	0.81	**529**	21	0.04	938	1.70
435	1	0.00	294	0.53	**483**	6	0.01	452	0.82	**530**	23	0.04	961	1.74
436	2	0.00	296	0.54	**484**	5	0.01	457	0.83	**531**	17	0.03	978	1.77
437	3	0.01	299	0.54	**485**	7	0.01	464	0.84	**532**	20	0.04	998	1.81
438	2	0.00	301	0.54	**486**	5	0.01	469	0.85	**533**	20	0.04	1018	1.84
439	2	0.00	303	0.55	**487**	10	0.02	479	0.87	**534**	18	0.03	1036	1.88
440	1	0.00	304	0.55	**488**	3	0.01	482	0.87	**535**	21	0.04	1057	1.91
441	1	0.00	305	0.55	**489**	2	0.00	484	0.88	**536**	25	0.05	1082	1.96
442	1	0.00	306	0.55	**490**	4	0.01	488	0.88	**537**	26	0.05	1108	2.01
443	2	0.00	308	0.56	**491**	6	0.01	494	0.89	**538**	22	0.04	1130	2.05
444	1	0.00	309	0.56	**492**	8	0.01	502	0.91	**539**	22	0.04	1152	2.09
445	3	0.01	312	0.56	**493**	4	0.01	506	0.92	**540**	18	0.03	1170	2.12
446	1	0.00	313	0.57	**494**	8	0.01	514	0.93	**541**	22	0.04	1192	2.16
447	3	0.01	316	0.57	**495**	7	0.01	521	0.94	**542**	27	0.05	1219	2.21
448	4	0.01	320	0.58	**496**	5	0.01	526	0.95	**543**	28	0.05	1247	2.26
449	1	0.00	321	0.58	**497**	5	0.01	531	0.96	**544**	36	0.07	1283	2.32
450	2	0.00	323	0.58	**498**	6	0.01	537	0.97	**545**	38	0.07	1321	2.39

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Table 186. Reading Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
546	26	0.05	1347	2.44	**593**	74	0.13	3893	7.05	**640**	228	0.41	10745	19.45
547	32	0.06	1379	2.50	**594**	85	0.15	3978	7.20	**641**	220	0.40	10965	19.85
548	25	0.05	1404	2.54	**595**	85	0.15	4063	7.36	**642**	227	0.41	11192	20.26
549	32	0.06	1436	2.60	**596**	103	0.19	4166	7.54	**643**	241	0.44	11433	20.70
550	20	0.04	1456	2.64	**597**	74	0.13	4240	7.68	**644**	248	0.45	11681	21.15
551	34	0.06	1490	2.70	**598**	95	0.17	4335	7.85	**645**	254	0.46	11935	21.61
552	35	0.06	1525	2.76	**599**	101	0.18	4436	8.03	**646**	267	0.48	12202	22.09
553	29	0.05	1554	2.81	**600**	100	0.18	4536	8.21	**647**	230	0.42	12432	22.51
554	26	0.05	1580	2.86	**601**	120	0.22	4656	8.43	**648**	282	0.51	12714	23.02
555	37	0.07	1617	2.93	**602**	99	0.18	4755	8.61	**649**	288	0.52	13002	23.54
556	35	0.06	1652	2.99	**603**	115	0.21	4870	8.82	**650**	291	0.53	13293	24.07
557	43	0.08	1695	3.07	**604**	101	0.18	4971	9.00	**651**	299	0.54	13592	24.61
558	33	0.06	1728	3.13	**605**	104	0.19	5075	9.19	**652**	313	0.57	13905	25.17
559	45	0.08	1773	3.21	**606**	102	0.18	5177	9.37	**653**	290	0.53	14195	25.70
560	40	0.07	1813	3.28	**607**	107	0.19	5284	9.57	**654**	320	0.58	14515	26.28
561	47	0.09	1860	3.37	**608**	120	0.22	5404	9.78	**655**	301	0.54	14816	26.82
562	37	0.07	1897	3.43	**609**	112	0.20	5516	9.99	**656**	327	0.59	15143	27.41
563	48	0.09	1945	3.52	**610**	108	0.20	5624	10.18	**657**	354	0.64	15497	28.06
564	52	0.09	1997	3.62	**611**	107	0.19	5731	10.38	**658**	338	0.61	15835	28.67
565	64	0.12	2061	3.73	**612**	125	0.23	5856	10.60	**659**	311	0.56	16146	29.23
566	55	0.10	2116	3.83	**613**	122	0.22	5978	10.82	**660**	353	0.64	16499	29.87
567	43	0.08	2159	3.91	**614**	113	0.20	6091	11.03	**661**	400	0.72	16899	30.59
568	47	0.09	2206	3.99	**615**	130	0.24	6221	11.26	**662**	401	0.73	17300	31.32
569	62	0.11	2268	4.11	**616**	113	0.20	6334	11.47	**663**	358	0.65	17658	31.97
570	54	0.10	2322	4.20	**617**	107	0.19	6441	11.66	**664**	352	0.64	18010	32.60
571	56	0.10	2378	4.31	**618**	153	0.28	6594	11.94	**665**	380	0.69	18390	33.29
572	45	0.08	2423	4.39	**619**	154	0.28	6748	12.22	**666**	379	0.69	18769	33.98
573	59	0.11	2482	4.49	**620**	159	0.29	6907	12.50	**667**	403	0.73	19172	34.71
574	45	0.08	2527	4.57	**621**	175	0.32	7082	12.82	**668**	401	0.73	19573	35.43
575	51	0.09	2578	4.67	**622**	150	0.27	7232	13.09	**669**	382	0.69	19955	36.13
576	64	0.12	2642	4.78	**623**	139	0.25	7371	13.34	**670**	414	0.75	20369	36.88
577	60	0.11	2702	4.89	**624**	167	0.30	7538	13.65	**671**	399	0.72	20768	37.60
578	72	0.13	2774	5.02	**625**	174	0.32	7712	13.96	**672**	417	0.75	21185	38.35
579	56	0.10	2830	5.12	**626**	186	0.34	7898	14.30	**673**	412	0.75	21597	39.10
580	67	0.12	2897	5.24	**627**	159	0.29	8057	14.59	**674**	468	0.85	22065	39.95
581	77	0.14	2974	5.38	**628**	186	0.34	8243	14.92	**675**	411	0.74	22476	40.69
582	80	0.14	3054	5.53	**629**	179	0.32	8422	15.25	**676**	425	0.77	22901	41.46
583	62	0.11	3116	5.64	**630**	195	0.35	8617	15.60	**677**	440	0.80	23341	42.26
584	65	0.12	3181	5.76	**631**	167	0.30	8784	15.90	**678**	429	0.78	23770	43.03
585	70	0.13	3251	5.89	**632**	207	0.37	8991	16.28	**679**	450	0.81	24220	43.85
586	88	0.16	3339	6.04	**633**	202	0.37	9193	16.64	**680**	447	0.81	24667	44.66
587	85	0.15	3424	6.20	**634**	253	0.46	9446	17.10	**681**	433	0.78	25100	45.44
588	74	0.13	3498	6.33	**635**	204	0.37	9650	17.47	**682**	470	0.85	25570	46.29
589	76	0.14	3574	6.47	**636**	224	0.41	9874	17.88	**683**	474	0.86	26044	47.15
590	77	0.14	3651	6.61	**637**	213	0.39	10087	18.26	**684**	427	0.77	26471	47.92
591	88	0.16	3739	6.77	**638**	217	0.39	10304	18.65	**685**	432	0.78	26903	48.70
592	80	0.14	3819	6.91	**639**	213	0.39	10517	19.04	**686**	468	0.85	27371	49.55

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Table 186. Reading Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
687	447	0.81	27818	50.36	**734**	299	0.54	47076	85.23	**781**	48	0.09	54297	98.30
688	449	0.81	28267	51.17	**735**	276	0.50	47352	85.73	**782**	48	0.09	54345	98.39
689	448	0.81	28715	51.99	**736**	302	0.55	47654	86.27	**783**	49	0.09	54394	98.47
690	492	0.89	29207	52.88	**737**	254	0.46	47908	86.73	**784**	39	0.07	54433	98.54
691	465	0.84	29672	53.72	**738**	274	0.50	48182	87.23	**785**	34	0.06	54467	98.61
692	446	0.81	30118	54.53	**739**	238	0.43	48420	87.66	**786**	51	0.09	54518	98.70
693	470	0.85	30588	55.38	**740**	226	0.41	48646	88.07	**787**	35	0.06	54553	98.76
694	452	0.82	31040	56.19	**741**	271	0.49	48917	88.56	**788**	41	0.07	54594	98.84
695	460	0.83	31500	57.03	**742**	238	0.43	49155	88.99	**789**	32	0.06	54626	98.89
696	464	0.84	31964	57.87	**743**	236	0.43	49391	89.42	**790**	31	0.06	54657	98.95
697	477	0.86	32441	58.73	**744**	217	0.39	49608	89.81	**791**	37	0.07	54694	99.02
698	479	0.87	32920	59.60	**745**	224	0.41	49832	90.21	**792**	32	0.06	54726	99.07
699	492	0.89	33412	60.49	**746**	198	0.36	50030	90.57	**793**	15	0.03	54741	99.10
700	449	0.81	33861	61.30	**747**	232	0.42	50262	90.99	**794**	32	0.06	54773	99.16
701	445	0.81	34306	62.11	**748**	174	0.32	50436	91.31	**795**	25	0.05	54798	99.21
702	484	0.88	34790	62.98	**749**	195	0.35	50631	91.66	**796**	25	0.05	54823	99.25
703	460	0.83	35250	63.82	**750**	195	0.35	50826	92.01	**797**	23	0.04	54846	99.29
704	422	0.76	35672	64.58	**751**	149	0.27	50975	92.28	**798**	17	0.03	54863	99.32
705	425	0.77	36097	65.35	**752**	180	0.33	51155	92.61	**799**	18	0.03	54881	99.36
706	454	0.82	36551	66.17	**753**	163	0.30	51318	92.91	**800**	18	0.03	54899	99.39
707	488	0.88	37039	67.05	**754**	176	0.32	51494	93.22	**801**	15	0.03	54914	99.42
708	445	0.81	37484	67.86	**755**	165	0.30	51659	93.52	**802**	10	0.02	54924	99.43
709	447	0.81	37931	68.67	**756**	155	0.28	51814	93.80	**803**	13	0.02	54937	99.46
710	400	0.72	38331	69.39	**757**	141	0.26	51955	94.06	**804**	16	0.03	54953	99.49
711	415	0.75	38746	70.15	**758**	163	0.30	52118	94.35	**805**	11	0.02	54964	99.51
712	444	0.80	39190	70.95	**759**	142	0.26	52260	94.61	**806**	10	0.02	54974	99.52
713	420	0.76	39610	71.71	**760**	148	0.27	52408	94.88	**807**	9	0.02	54983	99.54
714	407	0.74	40017	72.45	**761**	143	0.26	52551	95.14	**808**	10	0.02	54993	99.56
715	407	0.74	40424	73.18	**762**	132	0.24	52683	95.38	**809**	9	0.02	55002	99.57
716	440	0.80	40864	73.98	**763**	114	0.21	52797	95.58	**810**	11	0.02	55013	99.59
717	415	0.75	41279	74.73	**764**	111	0.20	52908	95.78	**811**	16	0.03	55029	99.62
718	369	0.67	41648	75.40	**765**	121	0.22	53029	96.00	**812**	11	0.02	55040	99.64
719	356	0.64	42004	76.04	**766**	103	0.19	53132	96.19	**813**	13	0.02	55053	99.67
720	378	0.68	42382	76.73	**767**	97	0.18	53229	96.36	**814**	7	0.01	55060	99.68
721	352	0.64	42734	77.36	**768**	91	0.16	53320	96.53	**815**	13	0.02	55073	99.70
722	388	0.70	43122	78.07	**769**	93	0.17	53413	96.70	**816**	6	0.01	55079	99.71
723	330	0.60	43452	78.66	**770**	78	0.14	53491	96.84	**817**	13	0.02	55092	99.74
724	371	0.67	43823	79.34	**771**	94	0.17	53585	97.01	**818**	6	0.01	55098	99.75
725	350	0.63	44173	79.97	**772**	85	0.15	53670	97.16	**819**	9	0.02	55107	99.76
726	345	0.62	44518	80.59	**773**	82	0.15	53752	97.31	**820**	9	0.02	55116	99.78
727	349	0.63	44867	81.23	**774**	87	0.16	53839	97.47	**821**	8	0.01	55124	99.80
728	326	0.59	45193	81.82	**775**	85	0.15	53924	97.62	**822**	6	0.01	55130	99.81
729	318	0.58	45511	82.39	**776**	75	0.14	53999	97.76	**823**	2	0.00	55132	99.81
730	343	0.62	45854	83.01	**777**	64	0.12	54063	97.87	**824**	8	0.01	55140	99.82
731	286	0.52	46140	83.53	**778**	66	0.12	54129	97.99	**825**	6	0.01	55146	99.84
732	321	0.58	46461	84.11	**779**	65	0.12	54194	98.11	**826**	6	0.01	55152	99.85
733	316	0.57	46777	84.68	**780**	55	0.10	54249	98.21	**827**	5	0.01	55157	99.86

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Table 186. Reading Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
828	5	0.01	55162	99.86
829	1	0.00	55163	99.87
830	2	0.00	55165	99.87
831	4	0.01	55169	99.88
832	2	0.00	55171	99.88
833	4	0.01	55175	99.89
834	3	0.01	55178	99.89
835	5	0.01	55183	99.90
836	3	0.01	55186	99.91
837	1	0.00	55187	99.91
838	1	0.00	55188	99.91
839	3	0.01	55191	99.92
840	1	0.00	55192	99.92
841	4	0.01	55196	99.93
843	2	0.00	55198	99.93
844	4	0.01	55202	99.94
845	1	0.00	55203	99.94
846	1	0.00	55204	99.94
847	5	0.01	55209	99.95
848	1	0.00	55210	99.95
849	1	0.00	55211	99.95
851	1	0.00	55212	99.95
854	4	0.01	55216	99.96
855	1	0.00	55217	99.96
856	1	0.00	55218	99.97
857	2	0.00	55220	99.97
858	1	0.00	55221	99.97
860	2	0.00	55223	99.97
861	1	0.00	55224	99.98
862	1	0.00	55225	99.98
863	1	0.00	55226	99.98
866	1	0.00	55227	99.98
867	1	0.00	55228	99.98
871	1	0.00	55229	99.99
872	1	0.00	55230	99.99
874	1	0.00	55231	99.99
876	1	0.00	55232	99.99
879	1	0.00	55233	99.99
880	1	0.00	55234	99.99
887	2	0.00	55236	100
902	1	0.00	55237	100

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Table 187. Writing Grade 10 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
270	97	0.18	97	0.18	**332**	8	0.01	246	0.45	**379**	14	0.03	669	1.21
272	2	0.00	99	0.18	**333**	6	0.01	252	0.46	**380**	11	0.02	680	1.23
274	2	0.00	101	0.18	**334**	10	0.02	262	0.47	**381**	18	0.03	698	1.26
278	1	0.00	102	0.18	**335**	10	0.02	272	0.49	**382**	12	0.02	710	1.29
279	3	0.01	105	0.19	**336**	3	0.01	275	0.50	**383**	24	0.04	734	1.33
281	2	0.00	107	0.19	**337**	3	0.01	278	0.50	**384**	12	0.02	746	1.35
283	2	0.00	109	0.20	**338**	6	0.01	284	0.51	**385**	18	0.03	764	1.38
284	1	0.00	110	0.20	**339**	2	0.00	286	0.52	**386**	18	0.03	782	1.42
285	5	0.01	115	0.21	**340**	10	0.02	296	0.54	**387**	15	0.03	797	1.44
286	4	0.01	119	0.22	**341**	7	0.01	303	0.55	**388**	23	0.04	820	1.48
287	3	0.01	122	0.22	**342**	8	0.01	311	0.56	**389**	23	0.04	843	1.53
289	2	0.00	124	0.22	**343**	6	0.01	317	0.57	**390**	30	0.05	873	1.58
290	7	0.01	131	0.24	**344**	1	0.00	318	0.58	**391**	21	0.04	894	1.62
293	1	0.00	132	0.24	**345**	4	0.01	322	0.58	**392**	31	0.06	925	1.67
296	1	0.00	133	0.24	**346**	7	0.01	329	0.60	**393**	24	0.04	949	1.72
297	1	0.00	134	0.24	**347**	8	0.01	337	0.61	**394**	16	0.03	965	1.75
298	2	0.00	136	0.25	**348**	9	0.02	346	0.63	**395**	18	0.03	983	1.78
299	5	0.01	141	0.26	**349**	7	0.01	353	0.64	**396**	23	0.04	1006	1.82
300	2	0.00	143	0.26	**350**	2	0.00	355	0.64	**397**	28	0.05	1034	1.87
301	2	0.00	145	0.26	**351**	2	0.00	357	0.65	**398**	25	0.05	1059	1.92
302	3	0.01	148	0.27	**352**	7	0.01	364	0.66	**399**	36	0.07	1095	1.98
303	1	0.00	149	0.27	**353**	9	0.02	373	0.68	**400**	18	0.03	1113	2.02
304	2	0.00	151	0.27	**354**	11	0.02	384	0.70	**401**	36	0.07	1149	2.08
305	1	0.00	152	0.28	**355**	7	0.01	391	0.71	**402**	42	0.08	1191	2.16
306	2	0.00	154	0.28	**356**	9	0.02	400	0.72	**403**	37	0.07	1228	2.22
307	2	0.00	156	0.28	**357**	7	0.01	407	0.74	**404**	47	0.09	1275	2.31
308	3	0.01	159	0.29	**358**	4	0.01	411	0.74	**405**	39	0.07	1314	2.38
309	1	0.00	160	0.29	**359**	12	0.02	423	0.77	**406**	35	0.06	1349	2.44
310	4	0.01	164	0.30	**360**	11	0.02	434	0.79	**407**	51	0.09	1400	2.54
311	6	0.01	170	0.31	**361**	9	0.02	443	0.80	**408**	37	0.07	1437	2.60
312	3	0.01	173	0.31	**362**	14	0.03	457	0.83	**409**	43	0.08	1480	2.68
314	5	0.01	178	0.32	**363**	8	0.01	465	0.84	**410**	33	0.06	1513	2.74
316	6	0.01	184	0.33	**364**	5	0.01	470	0.85	**411**	43	0.08	1556	2.82
317	3	0.01	187	0.34	**365**	20	0.04	490	0.89	**412**	50	0.09	1606	2.91
318	4	0.01	191	0.35	**366**	13	0.02	503	0.91	**413**	46	0.08	1652	2.99
319	4	0.01	195	0.35	**367**	9	0.02	512	0.93	**414**	50	0.09	1702	3.08
320	5	0.01	200	0.36	**368**	8	0.01	520	0.94	**415**	54	0.10	1756	3.18
321	3	0.01	203	0.37	**369**	12	0.02	532	0.96	**416**	55	0.10	1811	3.28
322	6	0.01	209	0.38	**370**	9	0.02	541	0.98	**417**	57	0.10	1868	3.38
323	5	0.01	214	0.39	**371**	8	0.01	549	0.99	**418**	48	0.09	1916	3.47
324	3	0.01	217	0.39	**372**	22	0.04	571	1.03	**419**	62	0.11	1978	3.58
325	4	0.01	221	0.40	**373**	11	0.02	582	1.05	**420**	50	0.09	2028	3.67
327	4	0.01	225	0.41	**374**	17	0.03	599	1.08	**421**	52	0.09	2080	3.77
328	2	0.00	227	0.41	**375**	14	0.03	613	1.11	**422**	70	0.13	2150	3.89
329	2	0.00	229	0.41	**376**	13	0.02	626	1.13	**423**	62	0.11	2212	4.01
330	5	0.01	234	0.42	**377**	15	0.03	641	1.16	**424**	74	0.13	2286	4.14
331	4	0.01	238	0.43	**378**	14	0.03	655	1.19	**425**	63	0.11	2349	4.25

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Table 187. Writing Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
426	45	0.08	2394	4.33	**473**	102	0.18	6676	12.09	**520**	197	0.36	14097	25.53
427	62	0.11	2456	4.45	**474**	160	0.29	6836	12.38	**521**	211	0.38	14308	25.91
428	62	0.11	2518	4.56	**475**	110	0.20	6946	12.58	**522**	201	0.36	14509	26.27
429	74	0.13	2592	4.69	**476**	104	0.19	7050	12.77	**523**	240	0.43	14749	26.71
430	75	0.14	2667	4.83	**477**	136	0.25	7186	13.01	**524**	195	0.35	14944	27.06
431	83	0.15	2750	4.98	**478**	109	0.20	7295	13.21	**525**	224	0.41	15168	27.47
432	79	0.14	2829	5.12	**479**	103	0.19	7398	13.40	**526**	218	0.39	15386	27.86
433	69	0.12	2898	5.25	**480**	139	0.25	7537	13.65	**527**	212	0.38	15598	28.24
434	95	0.17	2993	5.42	**481**	130	0.24	7667	13.88	**528**	217	0.39	15815	28.64
435	83	0.15	3076	5.57	**482**	117	0.21	7784	14.10	**529**	223	0.40	16038	29.04
436	78	0.14	3154	5.71	**483**	133	0.24	7917	14.34	**530**	199	0.36	16237	29.40
437	74	0.13	3228	5.85	**484**	107	0.19	8024	14.53	**531**	211	0.38	16448	29.78
438	72	0.13	3300	5.98	**485**	139	0.25	8163	14.78	**532**	227	0.41	16675	30.19
439	81	0.15	3381	6.12	**486**	148	0.27	8311	15.05	**533**	221	0.40	16896	30.59
440	80	0.14	3461	6.27	**487**	124	0.22	8435	15.27	**534**	221	0.40	17117	31.00
441	81	0.15	3542	6.41	**488**	144	0.26	8579	15.53	**535**	218	0.39	17335	31.39
442	87	0.16	3629	6.57	**489**	153	0.28	8732	15.81	**536**	226	0.41	17561	31.80
443	84	0.15	3713	6.72	**490**	158	0.29	8890	16.10	**537**	209	0.38	17770	32.18
444	98	0.18	3811	6.90	**491**	144	0.26	9034	16.36	**538**	242	0.44	18012	32.62
445	92	0.17	3903	7.07	**492**	119	0.22	9153	16.57	**539**	248	0.45	18260	33.06
446	90	0.16	3993	7.23	**493**	153	0.28	9306	16.85	**540**	230	0.42	18490	33.48
447	81	0.15	4074	7.38	**494**	139	0.25	9445	17.10	**541**	219	0.40	18709	33.88
448	80	0.14	4154	7.52	**495**	151	0.27	9596	17.38	**542**	258	0.47	18967	34.34
449	94	0.17	4248	7.69	**496**	145	0.26	9741	17.64	**543**	217	0.39	19184	34.74
450	101	0.18	4349	7.88	**497**	170	0.31	9911	17.95	**544**	238	0.43	19422	35.17
451	100	0.18	4449	8.06	**498**	175	0.32	10086	18.26	**545**	246	0.45	19668	35.61
452	102	0.18	4551	8.24	**499**	182	0.33	10268	18.59	**546**	269	0.49	19937	36.10
453	82	0.15	4633	8.39	**500**	158	0.29	10426	18.88	**547**	256	0.46	20193	36.56
454	80	0.14	4713	8.53	**501**	139	0.25	10565	19.13	**548**	250	0.45	20443	37.02
455	101	0.18	4814	8.72	**502**	191	0.35	10756	19.48	**549**	243	0.44	20686	37.46
456	99	0.18	4913	8.90	**503**	175	0.32	10931	19.79	**550**	254	0.46	20940	37.92
457	91	0.16	5004	9.06	**504**	174	0.32	11105	20.11	**551**	282	0.51	21222	38.43
458	96	0.17	5100	9.23	**505**	164	0.30	11269	20.41	**552**	284	0.51	21506	38.94
459	111	0.20	5211	9.44	**506**	189	0.34	11458	20.75	**553**	273	0.49	21779	39.44
460	100	0.18	5311	9.62	**507**	174	0.32	11632	21.06	**554**	247	0.45	22026	39.88
461	100	0.18	5411	9.80	**508**	178	0.32	11810	21.39	**555**	268	0.49	22294	40.37
462	91	0.16	5502	9.96	**509**	198	0.36	12008	21.74	**556**	277	0.50	22571	40.87
463	110	0.20	5612	10.16	**510**	187	0.34	12195	22.08	**557**	271	0.49	22842	41.36
464	96	0.17	5708	10.34	**511**	174	0.32	12369	22.40	**558**	290	0.53	23132	41.89
465	123	0.22	5831	10.56	**512**	189	0.34	12558	22.74	**559**	273	0.49	23405	42.38
466	116	0.21	5947	10.77	**513**	180	0.33	12738	23.07	**560**	288	0.52	23693	42.90
467	107	0.19	6054	10.96	**514**	209	0.38	12947	23.44	**561**	292	0.53	23985	43.43
468	98	0.18	6152	11.14	**515**	208	0.38	13155	23.82	**562**	254	0.46	24239	43.89
469	93	0.17	6245	11.31	**516**	188	0.34	13343	24.16	**563**	272	0.49	24511	44.38
470	109	0.20	6354	11.51	**517**	172	0.31	13515	24.47	**564**	263	0.48	24774	44.86
471	110	0.20	6464	11.70	**518**	184	0.33	13699	24.81	**565**	321	0.58	25095	45.44
472	110	0.20	6574	11.90	**519**	201	0.36	13900	25.17	**566**	266	0.48	25361	45.92

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Table 187. Writing Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
567	274	0.50	25635	46.42	**614**	248	0.45	37976	68.77	**661**	130	0.24	46936	84.99
568	261	0.47	25896	46.89	**615**	250	0.45	38226	69.22	**662**	138	0.25	47074	85.24
569	251	0.45	26147	47.35	**616**	240	0.43	38466	69.65	**663**	148	0.27	47222	85.51
570	300	0.54	26447	47.89	**617**	217	0.39	38683	70.05	**664**	135	0.24	47357	85.75
571	238	0.43	26685	48.32	**618**	247	0.45	38930	70.49	**665**	123	0.22	47480	85.98
572	294	0.53	26979	48.85	**619**	207	0.37	39137	70.87	**666**	131	0.24	47611	86.21
573	277	0.50	27256	49.35	**620**	236	0.43	39373	71.30	**667**	145	0.26	47756	86.48
574	263	0.48	27519	49.83	**621**	231	0.42	39604	71.71	**668**	136	0.25	47892	86.72
575	277	0.50	27796	50.33	**622**	225	0.41	39829	72.12	**669**	137	0.25	48029	86.97
576	288	0.52	28084	50.85	**623**	196	0.35	40025	72.48	**670**	131	0.24	48160	87.21
577	291	0.53	28375	51.38	**624**	215	0.39	40240	72.87	**671**	123	0.22	48283	87.43
578	295	0.53	28670	51.91	**625**	227	0.41	40467	73.28	**672**	136	0.25	48419	87.68
579	297	0.54	28967	52.45	**626**	213	0.39	40680	73.66	**673**	150	0.27	48569	87.95
580	281	0.51	29248	52.96	**627**	203	0.37	40883	74.03	**674**	116	0.21	48685	88.16
581	265	0.48	29513	53.44	**628**	201	0.36	41084	74.39	**675**	120	0.22	48805	88.37
582	288	0.52	29801	53.96	**629**	207	0.37	41291	74.77	**676**	117	0.21	48922	88.59
583	260	0.47	30061	54.43	**630**	221	0.40	41512	75.17	**677**	106	0.19	49028	88.78
584	273	0.49	30334	54.93	**631**	199	0.36	41711	75.53	**678**	111	0.20	49139	88.98
585	260	0.47	30594	55.40	**632**	215	0.39	41926	75.92	**679**	114	0.21	49253	89.19
586	252	0.46	30846	55.86	**633**	205	0.37	42131	76.29	**680**	118	0.21	49371	89.40
587	260	0.47	31106	56.33	**634**	197	0.36	42328	76.65	**681**	122	0.22	49493	89.62
588	290	0.53	31396	56.85	**635**	185	0.33	42513	76.98	**682**	126	0.23	49619	89.85
589	285	0.52	31681	57.37	**636**	165	0.30	42678	77.28	**683**	85	0.15	49704	90.00
590	263	0.48	31944	57.84	**637**	181	0.33	42859	77.61	**684**	101	0.18	49805	90.19
591	254	0.46	32198	58.30	**638**	190	0.34	43049	77.95	**685**	103	0.19	49908	90.37
592	280	0.51	32478	58.81	**639**	186	0.34	43235	78.29	**686**	84	0.15	49992	90.52
593	290	0.53	32768	59.34	**640**	201	0.36	43436	78.65	**687**	112	0.20	50104	90.73
594	257	0.47	33025	59.80	**641**	175	0.32	43611	78.97	**688**	102	0.18	50206	90.91
595	253	0.46	33278	60.26	**642**	210	0.38	43821	79.35	**689**	105	0.19	50311	91.10
596	283	0.51	33561	60.77	**643**	177	0.32	43998	79.67	**690**	91	0.16	50402	91.27
597	227	0.41	33788	61.18	**644**	166	0.30	44164	79.97	**691**	98	0.18	50500	91.44
598	238	0.43	34026	61.61	**645**	206	0.37	44370	80.34	**692**	110	0.20	50610	91.64
599	237	0.43	34263	62.04	**646**	177	0.32	44547	80.66	**693**	74	0.13	50684	91.78
600	276	0.50	34539	62.54	**647**	176	0.32	44723	80.98	**694**	86	0.16	50770	91.93
601	257	0.47	34796	63.01	**648**	175	0.32	44898	81.30	**695**	94	0.17	50864	92.10
602	274	0.50	35070	63.50	**649**	185	0.33	45083	81.64	**696**	84	0.15	50948	92.26
603	231	0.42	35301	63.92	**650**	153	0.28	45236	81.91	**697**	73	0.13	51021	92.39
604	241	0.44	35542	64.36	**651**	169	0.31	45405	82.22	**698**	89	0.16	51110	92.55
605	227	0.41	35769	64.77	**652**	166	0.30	45571	82.52	**699**	80	0.14	51190	92.69
606	241	0.44	36010	65.21	**653**	151	0.27	45722	82.79	**700**	95	0.17	51285	92.87
607	258	0.47	36268	65.67	**654**	145	0.26	45867	83.05	**701**	82	0.15	51367	93.01
608	227	0.41	36495	66.08	**655**	145	0.26	46012	83.32	**702**	75	0.14	51442	93.15
609	256	0.46	36751	66.55	**656**	170	0.31	46182	83.63	**703**	96	0.17	51538	93.32
610	234	0.42	36985	66.97	**657**	164	0.30	46346	83.92	**704**	74	0.13	51612	93.46
611	272	0.49	37257	67.46	**658**	155	0.28	46501	84.20	**705**	69	0.12	51681	93.58
612	244	0.44	37501	67.91	**659**	171	0.31	46672	84.51	**706**	61	0.11	51742	93.69
613	227	0.41	37728	68.32	**660**	134	0.24	46806	84.76	**707**	76	0.14	51818	93.83

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Table 187. Writing Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
708	44	0.08	51862	93.91	**755**	19	0.03	53911	97.62	**802**	8	0.01	54726	99.10
709	71	0.13	51933	94.04	**756**	28	0.05	53939	97.67	**803**	8	0.01	54734	99.11
710	59	0.11	51992	94.15	**757**	28	0.05	53967	97.72	**804**	5	0.01	54739	99.12
711	65	0.12	52057	94.26	**758**	17	0.03	53984	97.75	**805**	13	0.02	54752	99.14
712	77	0.14	52134	94.40	**759**	29	0.05	54013	97.81	**806**	3	0.01	54755	99.15
713	70	0.13	52204	94.53	**760**	18	0.03	54031	97.84	**807**	6	0.01	54761	99.16
714	51	0.09	52255	94.62	**761**	23	0.04	54054	97.88	**808**	2	0.00	54763	99.16
715	72	0.13	52327	94.75	**762**	26	0.05	54080	97.93	**809**	6	0.01	54769	99.17
716	44	0.08	52371	94.83	**763**	22	0.04	54102	97.97	**810**	13	0.02	54782	99.20
717	58	0.11	52429	94.94	**764**	22	0.04	54124	98.01	**811**	2	0.00	54784	99.20
718	47	0.09	52476	95.02	**765**	37	0.07	54161	98.07	**812**	3	0.01	54787	99.21
719	80	0.14	52556	95.17	**766**	17	0.03	54178	98.10	**813**	21	0.04	54808	99.24
720	57	0.10	52613	95.27	**767**	28	0.05	54206	98.15	**814**	1	0.00	54809	99.25
721	51	0.09	52664	95.36	**768**	25	0.05	54231	98.20	**815**	4	0.01	54813	99.25
722	61	0.11	52725	95.47	**769**	28	0.05	54259	98.25	**816**	16	0.03	54829	99.28
723	51	0.09	52776	95.57	**770**	19	0.03	54278	98.29	**817**	1	0.00	54830	99.28
724	34	0.06	52810	95.63	**771**	19	0.03	54297	98.32	**818**	2	0.00	54832	99.29
725	46	0.08	52856	95.71	**772**	13	0.02	54310	98.34	**819**	12	0.02	54844	99.31
726	46	0.08	52902	95.79	**773**	12	0.02	54322	98.36	**820**	7	0.01	54851	99.32
727	66	0.12	52968	95.91	**774**	25	0.05	54347	98.41	**821**	4	0.01	54855	99.33
728	55	0.10	53023	96.01	**775**	12	0.02	54359	98.43	**822**	6	0.01	54861	99.34
729	41	0.07	53064	96.09	**776**	20	0.04	54379	98.47	**823**	18	0.03	54879	99.37
730	34	0.06	53098	96.15	**777**	9	0.02	54388	98.48	**824**	4	0.01	54883	99.38
731	39	0.07	53137	96.22	**778**	23	0.04	54411	98.53	**825**	20	0.04	54903	99.42
732	46	0.08	53183	96.30	**779**	10	0.02	54421	98.54	**826**	3	0.01	54906	99.42
733	38	0.07	53221	96.37	**780**	22	0.04	54443	98.58	**827**	5	0.01	54911	99.43
734	42	0.08	53263	96.45	**781**	3	0.01	54446	98.59	**828**	13	0.02	54924	99.45
735	34	0.06	53297	96.51	**782**	30	0.05	54476	98.64	**829**	7	0.01	54931	99.47
736	37	0.07	53334	96.58	**783**	6	0.01	54482	98.65	**830**	5	0.01	54936	99.48
737	45	0.08	53379	96.66	**784**	18	0.03	54500	98.69	**831**	2	0.00	54938	99.48
738	35	0.06	53414	96.72	**785**	11	0.02	54511	98.71	**833**	10	0.02	54948	99.50
739	28	0.05	53442	96.77	**786**	37	0.07	54548	98.77	**835**	6	0.01	54954	99.51
740	24	0.04	53466	96.81	**787**	4	0.01	54552	98.78	**836**	14	0.03	54968	99.53
741	65	0.12	53531	96.93	**788**	5	0.01	54557	98.79	**837**	13	0.02	54981	99.56
742	28	0.05	53559	96.98	**789**	13	0.02	54570	98.81	**839**	5	0.01	54986	99.57
743	31	0.06	53590	97.04	**790**	13	0.02	54583	98.84	**840**	12	0.02	54998	99.59
744	43	0.08	53633	97.12	**791**	8	0.01	54591	98.85	**841**	5	0.01	55003	99.60
745	29	0.05	53662	97.17	**792**	22	0.04	54613	98.89	**842**	2	0.00	55005	99.60
746	23	0.04	53685	97.21	**793**	6	0.01	54619	98.90	**843**	8	0.01	55013	99.62
747	28	0.05	53713	97.26	**794**	25	0.05	54644	98.95	**844**	1	0.00	55014	99.62
748	30	0.05	53743	97.32	**795**	3	0.01	54647	98.95	**845**	1	0.00	55015	99.62
749	21	0.04	53764	97.35	**796**	19	0.03	54666	98.99	**846**	2	0.00	55017	99.62
750	20	0.04	53784	97.39	**797**	8	0.01	54674	99.00	**847**	3	0.01	55020	99.63
751	23	0.04	53807	97.43	**798**	4	0.01	54678	99.01	**848**	3	0.01	55023	99.63
752	20	0.04	53827	97.47	**799**	17	0.03	54695	99.04	**849**	4	0.01	55027	99.64
753	31	0.06	53858	97.52	**800**	5	0.01	54700	99.05	**851**	1	0.00	55028	99.64
754	34	0.06	53892	97.59	**801**	18	0.03	54718	99.08	**852**	12	0.02	55040	99.67

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Table 187. Writing Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
853	7	0.01	55047	99.68
855	1	0.00	55048	99.68
856	2	0.00	55050	99.68
857	13	0.02	55063	99.71
859	2	0.00	55065	99.71
861	5	0.01	55070	99.72
862	1	0.00	55071	99.72
864	3	0.01	55074	99.73
865	6	0.01	55080	99.74
866	2	0.00	55082	99.74
870	1	0.00	55083	99.74
871	4	0.01	55087	99.75
875	4	0.01	55091	99.76
876	1	0.00	55092	99.76
881	8	0.01	55100	99.77
887	1	0.00	55101	99.78
889	5	0.01	55106	99.78
890	15	0.03	55121	99.81
896	12	0.02	55133	99.83
898	2	0.00	55135	99.84
899	13	0.02	55148	99.86
900	3	0.01	55151	99.87
902	2	0.00	55153	99.87
903	3	0.01	55156	99.88
910	3	0.01	55159	99.88
917	13	0.02	55172	99.90
926	12	0.02	55184	99.93
950	41	0.07	55225	100

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Table 188. Mathematics Grade 10 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
370	840	1.52	840	1.52	**418**	29	0.05	1623	2.93	**465**	85	0.15	3449	6.22
372	9	0.02	849	1.53	**419**	17	0.03	1640	2.96	**466**	67	0.12	3516	6.34
373	13	0.02	862	1.56	**420**	14	0.03	1654	2.98	**467**	52	0.09	3568	6.44
374	8	0.01	870	1.57	**421**	29	0.05	1683	3.04	**468**	72	0.13	3640	6.57
375	5	0.01	875	1.58	**422**	26	0.05	1709	3.08	**469**	67	0.12	3707	6.69
376	11	0.02	886	1.60	**423**	22	0.04	1731	3.12	**470**	56	0.10	3763	6.79
377	7	0.01	893	1.61	**424**	34	0.06	1765	3.18	**471**	75	0.14	3838	6.93
378	11	0.02	904	1.63	**425**	24	0.04	1789	3.23	**472**	72	0.13	3910	7.06
379	6	0.01	910	1.64	**426**	24	0.04	1813	3.27	**473**	57	0.10	3967	7.16
380	8	0.01	918	1.66	**427**	34	0.06	1847	3.33	**474**	70	0.13	4037	7.28
381	16	0.03	934	1.69	**428**	31	0.06	1878	3.39	**475**	81	0.15	4118	7.43
382	17	0.03	951	1.72	**429**	36	0.06	1914	3.45	**476**	65	0.12	4183	7.55
383	13	0.02	964	1.74	**430**	28	0.05	1942	3.50	**477**	73	0.13	4256	7.68
384	11	0.02	975	1.76	**431**	25	0.05	1967	3.55	**478**	67	0.12	4323	7.80
385	13	0.02	988	1.78	**432**	28	0.05	1995	3.60	**479**	79	0.14	4402	7.94
386	13	0.02	1001	1.81	**433**	32	0.06	2027	3.66	**480**	76	0.14	4478	8.08
387	18	0.03	1019	1.84	**434**	39	0.07	2066	3.73	**481**	94	0.17	4572	8.25
388	10	0.02	1029	1.86	**435**	18	0.03	2084	3.76	**482**	73	0.13	4645	8.38
389	18	0.03	1047	1.89	**436**	30	0.05	2114	3.81	**483**	74	0.13	4719	8.52
390	11	0.02	1058	1.91	**437**	38	0.07	2152	3.88	**484**	92	0.17	4811	8.68
391	15	0.03	1073	1.94	**438**	32	0.06	2184	3.94	**485**	75	0.14	4886	8.82
392	14	0.03	1087	1.96	**439**	33	0.06	2217	4.00	**486**	82	0.15	4968	8.96
393	12	0.02	1099	1.98	**440**	33	0.06	2250	4.06	**487**	83	0.15	5051	9.11
394	18	0.03	1117	2.02	**441**	31	0.06	2281	4.12	**488**	80	0.14	5131	9.26
395	19	0.03	1136	2.05	**442**	46	0.08	2327	4.20	**489**	84	0.15	5215	9.41
396	23	0.04	1159	2.09	**443**	38	0.07	2365	4.27	**490**	93	0.17	5308	9.58
397	23	0.04	1182	2.13	**444**	48	0.09	2413	4.35	**491**	84	0.15	5392	9.73
398	25	0.05	1207	2.18	**445**	57	0.10	2470	4.46	**492**	90	0.16	5482	9.89
399	13	0.02	1220	2.20	**446**	47	0.08	2517	4.54	**493**	118	0.21	5600	10.10
400	27	0.05	1247	2.25	**447**	39	0.07	2556	4.61	**494**	83	0.15	5683	10.25
401	23	0.04	1270	2.29	**448**	36	0.06	2592	4.68	**495**	100	0.18	5783	10.44
402	17	0.03	1287	2.32	**449**	44	0.08	2636	4.76	**496**	90	0.16	5873	10.60
403	18	0.03	1305	2.35	**450**	56	0.10	2692	4.86	**497**	99	0.18	5972	10.78
404	21	0.04	1326	2.39	**451**	42	0.08	2734	4.93	**498**	98	0.18	6070	10.95
405	13	0.02	1339	2.42	**452**	39	0.07	2773	5.00	**499**	103	0.19	6173	11.14
406	22	0.04	1361	2.46	**453**	43	0.08	2816	5.08	**500**	97	0.18	6270	11.31
407	17	0.03	1378	2.49	**454**	53	0.10	2869	5.18	**501**	91	0.16	6361	11.48
408	14	0.03	1392	2.51	**455**	48	0.09	2917	5.26	**502**	128	0.23	6489	11.71
409	20	0.04	1412	2.55	**456**	55	0.10	2972	5.36	**503**	110	0.20	6599	11.91
410	20	0.04	1432	2.58	**457**	48	0.09	3020	5.45	**504**	124	0.22	6723	12.13
411	23	0.04	1455	2.63	**458**	40	0.07	3060	5.52	**505**	125	0.23	6848	12.36
412	23	0.04	1478	2.67	**459**	48	0.09	3108	5.61	**506**	160	0.29	7008	12.65
413	18	0.03	1496	2.70	**460**	38	0.07	3146	5.68	**507**	119	0.21	7127	12.86
414	21	0.04	1517	2.74	**461**	47	0.08	3193	5.76	**508**	123	0.22	7250	13.08
415	22	0.04	1539	2.78	**462**	69	0.12	3262	5.89	**509**	136	0.25	7386	13.33
416	30	0.05	1569	2.83	**463**	44	0.08	3306	5.97	**510**	112	0.20	7498	13.53
417	25	0.05	1594	2.88	**464**	58	0.10	3364	6.07	**511**	118	0.21	7616	13.74

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Table 188. Mathematics Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
512	141	0.25	7757	14.00	**559**	272	0.49	17130	30.91	**606**	314	0.57	31706	57.21
513	133	0.24	7890	14.24	**560**	291	0.53	17421	31.44	**607**	340	0.61	32046	57.82
514	140	0.25	8030	14.49	**561**	267	0.48	17688	31.92	**608**	340	0.61	32386	58.44
515	138	0.25	8168	14.74	**562**	292	0.53	17980	32.44	**609**	321	0.58	32707	59.02
516	133	0.24	8301	14.98	**563**	280	0.51	18260	32.95	**610**	344	0.62	33051	59.64
517	150	0.27	8451	15.25	**564**	292	0.53	18552	33.48	**611**	326	0.59	33377	60.23
518	154	0.28	8605	15.53	**565**	286	0.52	18838	33.99	**612**	305	0.55	33682	60.78
519	154	0.28	8759	15.81	**566**	266	0.48	19104	34.47	**613**	326	0.59	34008	61.37
520	160	0.29	8919	16.09	**567**	296	0.53	19400	35.01	**614**	323	0.58	34331	61.95
521	179	0.32	9098	16.42	**568**	280	0.51	19680	35.51	**615**	328	0.59	34659	62.54
522	157	0.28	9255	16.70	**569**	258	0.47	19938	35.98	**616**	327	0.59	34986	63.13
523	158	0.29	9413	16.99	**570**	298	0.54	20236	36.51	**617**	310	0.56	35296	63.69
524	163	0.29	9576	17.28	**571**	278	0.50	20514	37.02	**618**	337	0.61	35633	64.30
525	183	0.33	9759	17.61	**572**	276	0.50	20790	37.51	**619**	340	0.61	35973	64.91
526	173	0.31	9932	17.92	**573**	298	0.54	21088	38.05	**620**	306	0.55	36279	65.46
527	172	0.31	10104	18.23	**574**	303	0.55	21391	38.60	**621**	312	0.56	36591	66.03
528	157	0.28	10261	18.52	**575**	309	0.56	21700	39.16	**622**	329	0.59	36920	66.62
529	157	0.28	10418	18.80	**576**	329	0.59	22029	39.75	**623**	309	0.56	37229	67.18
530	193	0.35	10611	19.15	**577**	316	0.57	22345	40.32	**624**	302	0.54	37531	67.72
531	193	0.35	10804	19.50	**578**	297	0.54	22642	40.86	**625**	303	0.55	37834	68.27
532	180	0.32	10984	19.82	**579**	321	0.58	22963	41.44	**626**	294	0.53	38128	68.80
533	180	0.32	11164	20.14	**580**	305	0.55	23268	41.99	**627**	301	0.54	38429	69.34
534	171	0.31	11335	20.45	**581**	322	0.58	23590	42.57	**628**	309	0.56	38738	69.90
535	190	0.34	11525	20.80	**582**	320	0.58	23910	43.14	**629**	321	0.58	39059	70.48
536	199	0.36	11724	21.16	**583**	329	0.59	24239	43.74	**630**	279	0.50	39338	70.98
537	200	0.36	11924	21.52	**584**	287	0.52	24526	44.26	**631**	301	0.54	39639	71.53
538	221	0.40	12145	21.91	**585**	318	0.57	24844	44.83	**632**	309	0.56	39948	72.08
539	215	0.39	12360	22.30	**586**	351	0.63	25195	45.46	**633**	276	0.50	40224	72.58
540	207	0.37	12567	22.68	**587**	325	0.59	25520	46.05	**634**	300	0.54	40524	73.12
541	203	0.37	12770	23.04	**588**	320	0.58	25840	46.63	**635**	276	0.50	40800	73.62
542	226	0.41	12996	23.45	**589**	361	0.65	26201	47.28	**636**	256	0.46	41056	74.08
543	226	0.41	13222	23.86	**590**	307	0.55	26508	47.83	**637**	289	0.52	41345	74.60
544	226	0.41	13448	24.27	**591**	346	0.62	26854	48.46	**638**	302	0.54	41647	75.15
545	230	0.42	13678	24.68	**592**	351	0.63	27205	49.09	**639**	256	0.46	41903	75.61
546	229	0.41	13907	25.09	**593**	304	0.55	27509	49.64	**640**	277	0.50	42180	76.11
547	233	0.42	14140	25.51	**594**	324	0.58	27833	50.22	**641**	286	0.52	42466	76.63
548	231	0.42	14371	25.93	**595**	315	0.57	28148	50.79	**642**	286	0.52	42752	77.14
549	252	0.45	14623	26.39	**596**	352	0.64	28500	51.43	**643**	237	0.43	42989	77.57
550	227	0.41	14850	26.80	**597**	316	0.57	28816	52.00	**644**	272	0.49	43261	78.06
551	232	0.42	15082	27.21	**598**	342	0.62	29158	52.61	**645**	246	0.44	43507	78.51
552	247	0.45	15329	27.66	**599**	335	0.60	29493	53.22	**646**	262	0.47	43769	78.98
553	246	0.44	15575	28.10	**600**	307	0.55	29800	53.77	**647**	258	0.47	44027	79.44
554	265	0.48	15840	28.58	**601**	343	0.62	30143	54.39	**648**	270	0.49	44297	79.93
555	251	0.45	16091	29.04	**602**	326	0.59	30469	54.98	**649**	257	0.46	44554	80.39
556	277	0.50	16368	29.53	**603**	303	0.55	30772	55.53	**650**	257	0.46	44811	80.86
557	237	0.43	16605	29.96	**604**	311	0.56	31083	56.09	**651**	259	0.47	45070	81.33
558	253	0.46	16858	30.42	**605**	309	0.56	31392	56.64	**652**	236	0.43	45306	81.75

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Table 188. Mathematics Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
653	237	0.43	45543	82.18	**700**	101	0.18	53244	96.08	**747**	17	0.03	55149	99.51
654	247	0.45	45790	82.63	**701**	87	0.16	53331	96.23	**748**	11	0.02	55160	99.53
655	236	0.43	46026	83.05	**702**	89	0.16	53420	96.39	**749**	11	0.02	55171	99.55
656	216	0.39	46242	83.44	**703**	71	0.13	53491	96.52	**750**	14	0.03	55185	99.58
657	247	0.45	46489	83.89	**704**	75	0.14	53566	96.66	**751**	8	0.01	55193	99.59
658	212	0.38	46701	84.27	**705**	75	0.14	53641	96.79	**752**	7	0.01	55200	99.60
659	206	0.37	46907	84.64	**706**	67	0.12	53708	96.91	**753**	10	0.02	55210	99.62
660	231	0.42	47138	85.06	**707**	62	0.11	53770	97.02	**754**	9	0.02	55219	99.64
661	213	0.38	47351	85.44	**708**	83	0.15	53853	97.17	**755**	11	0.02	55230	99.66
662	250	0.45	47601	85.89	**709**	62	0.11	53915	97.29	**756**	11	0.02	55241	99.68
663	205	0.37	47806	86.26	**710**	56	0.10	53971	97.39	**757**	9	0.02	55250	99.70
664	176	0.32	47982	86.58	**711**	64	0.12	54035	97.50	**758**	6	0.01	55256	99.71
665	190	0.34	48172	86.92	**712**	61	0.11	54096	97.61	**759**	12	0.02	55268	99.73
666	212	0.38	48384	87.31	**713**	54	0.10	54150	97.71	**760**	9	0.02	55277	99.74
667	201	0.36	48585	87.67	**714**	42	0.08	54192	97.79	**761**	5	0.01	55282	99.75
668	206	0.37	48791	88.04	**715**	62	0.11	54254	97.90	**762**	7	0.01	55289	99.77
669	192	0.35	48983	88.39	**716**	58	0.10	54312	98.00	**763**	7	0.01	55296	99.78
670	195	0.35	49178	88.74	**717**	53	0.10	54365	98.10	**764**	10	0.02	55306	99.80
671	185	0.33	49363	89.07	**718**	42	0.08	54407	98.17	**765**	6	0.01	55312	99.81
672	166	0.30	49529	89.37	**719**	51	0.09	54458	98.27	**766**	8	0.01	55320	99.82
673	168	0.30	49697	89.68	**720**	51	0.09	54509	98.36	**767**	4	0.01	55324	99.83
674	194	0.35	49891	90.03	**721**	38	0.07	54547	98.43	**768**	9	0.02	55333	99.84
675	176	0.32	50067	90.34	**722**	41	0.07	54588	98.50	**769**	3	0.01	55336	99.85
676	154	0.28	50221	90.62	**723**	33	0.06	54621	98.56	**770**	2	0.00	55338	99.85
677	144	0.26	50365	90.88	**724**	33	0.06	54654	98.62	**771**	6	0.01	55344	99.86
678	163	0.29	50528	91.17	**725**	41	0.07	54695	98.69	**772**	4	0.01	55348	99.87
679	162	0.29	50690	91.47	**726**	31	0.06	54726	98.75	**773**	2	0.00	55350	99.88
680	149	0.27	50839	91.74	**727**	27	0.05	54753	98.80	**774**	4	0.01	55354	99.88
681	167	0.30	51006	92.04	**728**	30	0.05	54783	98.85	**775**	2	0.00	55356	99.89
682	151	0.27	51157	92.31	**729**	25	0.05	54808	98.90	**776**	3	0.01	55359	99.89
683	137	0.25	51294	92.56	**730**	30	0.05	54838	98.95	**777**	4	0.01	55363	99.90
684	141	0.25	51435	92.81	**731**	22	0.04	54860	98.99	**778**	1	0.00	55364	99.90
685	130	0.23	51565	93.05	**732**	17	0.03	54877	99.02	**779**	4	0.01	55368	99.91
686	154	0.28	51719	93.32	**733**	26	0.05	54903	99.07	**780**	3	0.01	55371	99.91
687	142	0.26	51861	93.58	**734**	20	0.04	54923	99.11	**781**	7	0.01	55378	99.93
688	128	0.23	51989	93.81	**735**	24	0.04	54947	99.15	**782**	1	0.00	55379	99.93
689	139	0.25	52128	94.06	**736**	16	0.03	54963	99.18	**783**	5	0.01	55384	99.94
690	106	0.19	52234	94.25	**737**	25	0.05	54988	99.22	**784**	1	0.00	55385	99.94
691	120	0.22	52354	94.47	**738**	14	0.03	55002	99.25	**785**	2	0.00	55387	99.94
692	121	0.22	52475	94.69	**739**	17	0.03	55019	99.28	**786**	1	0.00	55388	99.94
693	125	0.23	52600	94.91	**740**	14	0.03	55033	99.30	**787**	1	0.00	55389	99.95
694	97	0.18	52697	95.09	**741**	21	0.04	55054	99.34	**788**	1	0.00	55390	99.95
695	105	0.19	52802	95.28	**742**	15	0.03	55069	99.37	**789**	1	0.00	55391	99.95
696	92	0.17	52894	95.44	**743**	18	0.03	55087	99.40	**790**	3	0.01	55394	99.95
697	81	0.15	52975	95.59	**744**	20	0.04	55107	99.44	**791**	1	0.00	55395	99.96
698	85	0.15	53060	95.74	**745**	13	0.02	55120	99.46	**792**	2	0.00	55397	99.96
699	83	0.15	53143	95.89	**746**	12	0.02	55132	99.48	**793**	1	0.00	55398	99.96

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Table 188. Mathematics Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %
795	1	0.00	55399	99.96
797	1	0.00	55400	99.97
800	3	0.01	55403	99.97
801	2	0.00	55405	99.97
803	2	0.00	55407	99.98
807	2	0.00	55409	99.98
810	1	0.00	55410	99.98
815	1	0.00	55411	99.99
817	1	0.00	55412	99.99
820	1	0.00	55413	99.99
840	2	0.00	55415	99.99
845	1	0.00	55416	99.99
847	1	0.00	55417	100
904	2	0.00	55419	100

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Table 189. Science Grade 10 Scale Score Distribution

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
300	907	1.63	907	1.63	**347**	46	0.08	1790	3.22	**394**	72	0.13	4248	7.65
301	17	0.03	924	1.66	**348**	33	0.06	1823	3.28	**395**	93	0.17	4341	7.81
302	9	0.02	933	1.68	**349**	30	0.05	1853	3.34	**396**	82	0.15	4423	7.96
303	9	0.02	942	1.70	**350**	23	0.04	1876	3.38	**397**	78	0.14	4501	8.10
304	6	0.01	948	1.71	**351**	36	0.06	1912	3.44	**398**	89	0.16	4590	8.26
305	17	0.03	965	1.74	**352**	23	0.04	1935	3.48	**399**	89	0.16	4679	8.42
306	19	0.03	984	1.77	**353**	27	0.05	1962	3.53	**400**	88	0.16	4767	8.58
307	10	0.02	994	1.79	**354**	34	0.06	1996	3.59	**401**	102	0.18	4869	8.76
308	11	0.02	1005	1.81	**355**	26	0.05	2022	3.64	**402**	96	0.17	4965	8.94
309	14	0.03	1019	1.83	**356**	34	0.06	2056	3.70	**403**	81	0.15	5046	9.08
310	12	0.02	1031	1.86	**357**	40	0.07	2096	3.77	**404**	91	0.16	5137	9.25
311	16	0.03	1047	1.88	**358**	30	0.05	2126	3.83	**405**	104	0.19	5241	9.43
312	11	0.02	1058	1.90	**359**	44	0.08	2170	3.91	**406**	111	0.20	5352	9.63
313	13	0.02	1071	1.93	**360**	48	0.09	2218	3.99	**407**	90	0.16	5442	9.79
314	15	0.03	1086	1.95	**361**	41	0.07	2259	4.07	**408**	88	0.16	5530	9.95
315	12	0.02	1098	1.98	**362**	45	0.08	2304	4.15	**409**	94	0.17	5624	10.12
316	17	0.03	1115	2.01	**363**	41	0.07	2345	4.22	**410**	120	0.22	5744	10.34
317	15	0.03	1130	2.03	**364**	36	0.06	2381	4.29	**411**	117	0.21	5861	10.55
318	6	0.01	1136	2.04	**365**	45	0.08	2426	4.37	**412**	118	0.21	5979	10.76
319	7	0.01	1143	2.06	**366**	47	0.08	2473	4.45	**413**	132	0.24	6111	11.00
320	20	0.04	1163	2.09	**367**	51	0.09	2524	4.54	**414**	107	0.19	6218	11.19
321	17	0.03	1180	2.12	**368**	50	0.09	2574	4.63	**415**	113	0.20	6331	11.40
322	21	0.04	1201	2.16	**369**	49	0.09	2623	4.72	**416**	116	0.21	6447	11.60
323	15	0.03	1216	2.19	**370**	69	0.12	2692	4.85	**417**	97	0.17	6544	11.78
324	21	0.04	1237	2.23	**371**	50	0.09	2742	4.94	**418**	137	0.25	6681	12.03
325	11	0.02	1248	2.25	**372**	44	0.08	2786	5.01	**419**	134	0.24	6815	12.27
326	20	0.04	1268	2.28	**373**	47	0.08	2833	5.10	**420**	125	0.22	6940	12.49
327	15	0.03	1283	2.31	**374**	49	0.09	2882	5.19	**421**	134	0.24	7074	12.73
328	24	0.04	1307	2.35	**375**	42	0.08	2924	5.26	**422**	120	0.22	7194	12.95
329	21	0.04	1328	2.39	**376**	43	0.08	2967	5.34	**423**	143	0.26	7337	13.21
330	16	0.03	1344	2.42	**377**	53	0.10	3020	5.44	**424**	135	0.24	7472	13.45
331	21	0.04	1365	2.46	**378**	78	0.14	3098	5.58	**425**	135	0.24	7607	13.69
332	22	0.04	1387	2.50	**379**	62	0.11	3160	5.69	**426**	153	0.28	7760	13.97
333	14	0.03	1401	2.52	**380**	62	0.11	3222	5.80	**427**	136	0.24	7896	14.21
334	31	0.06	1432	2.58	**381**	67	0.12	3289	5.92	**428**	146	0.26	8042	14.47
335	21	0.04	1453	2.62	**382**	68	0.12	3357	6.04	**429**	128	0.23	8170	14.71
336	16	0.03	1469	2.64	**383**	77	0.14	3434	6.18	**430**	167	0.30	8337	15.01
337	25	0.04	1494	2.69	**384**	55	0.10	3489	6.28	**431**	148	0.27	8485	15.27
338	25	0.04	1519	2.73	**385**	83	0.15	3572	6.43	**432**	171	0.31	8656	15.58
339	21	0.04	1540	2.77	**386**	69	0.12	3641	6.55	**433**	167	0.30	8823	15.88
340	30	0.05	1570	2.83	**387**	83	0.15	3724	6.70	**434**	177	0.32	9000	16.20
341	26	0.05	1596	2.87	**388**	75	0.13	3799	6.84	**435**	170	0.31	9170	16.50
342	33	0.06	1629	2.93	**389**	64	0.12	3863	6.95	**436**	161	0.29	9331	16.79
343	31	0.06	1660	2.99	**390**	73	0.13	3936	7.08	**437**	167	0.30	9498	17.10
344	27	0.05	1687	3.04	**391**	80	0.14	4016	7.23	**438**	152	0.27	9650	17.37
345	32	0.06	1719	3.09	**392**	74	0.13	4090	7.36	**439**	178	0.32	9828	17.69
346	25	0.04	1744	3.14	**393**	86	0.15	4176	7.52	**440**	169	0.30	9997	17.99

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Table 189. Science Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
441	181	0.33	10178	18.32	**488**	348	0.63	22121	39.82	**535**	369	0.66	40105	72.18
442	182	0.33	10360	18.65	**489**	344	0.62	22465	40.43	**536**	393	0.71	40498	72.89
443	172	0.31	10532	18.96	**490**	345	0.62	22810	41.06	**537**	387	0.70	40885	73.59
444	199	0.36	10731	19.31	**491**	381	0.69	23191	41.74	**538**	407	0.73	41292	74.32
445	205	0.37	10936	19.68	**492**	365	0.66	23556	42.40	**539**	372	0.67	41664	74.99
446	181	0.33	11117	20.01	**493**	363	0.65	23919	43.05	**540**	352	0.63	42016	75.62
447	151	0.27	11268	20.28	**494**	363	0.65	24282	43.70	**541**	341	0.61	42357	76.24
448	191	0.34	11459	20.62	**495**	379	0.68	24661	44.39	**542**	389	0.70	42746	76.94
449	215	0.39	11674	21.01	**496**	353	0.64	25014	45.02	**543**	347	0.62	43093	77.56
450	223	0.40	11897	21.41	**497**	364	0.66	25378	45.68	**544**	353	0.64	43446	78.20
451	202	0.36	12099	21.78	**498**	367	0.66	25745	46.34	**545**	331	0.60	43777	78.79
452	194	0.35	12293	22.13	**499**	369	0.66	26114	47.00	**546**	319	0.57	44096	79.37
453	212	0.38	12505	22.51	**500**	373	0.67	26487	47.67	**547**	327	0.59	44423	79.96
454	222	0.40	12727	22.91	**501**	351	0.63	26838	48.31	**548**	361	0.65	44784	80.61
455	211	0.38	12938	23.29	**502**	357	0.64	27195	48.95	**549**	315	0.57	45099	81.17
456	239	0.43	13177	23.72	**503**	360	0.65	27555	49.60	**550**	295	0.53	45394	81.70
457	248	0.45	13425	24.16	**504**	387	0.70	27942	50.29	**551**	309	0.56	45703	82.26
458	214	0.39	13639	24.55	**505**	378	0.68	28320	50.97	**552**	305	0.55	46008	82.81
459	233	0.42	13872	24.97	**506**	400	0.72	28720	51.69	**553**	298	0.54	46306	83.35
460	244	0.44	14116	25.41	**507**	383	0.69	29103	52.38	**554**	319	0.57	46625	83.92
461	229	0.41	14345	25.82	**508**	402	0.72	29505	53.11	**555**	299	0.54	46924	84.46
462	238	0.43	14583	26.25	**509**	381	0.69	29886	53.79	**556**	285	0.51	47209	84.97
463	224	0.40	14807	26.65	**510**	386	0.69	30272	54.49	**557**	271	0.49	47480	85.46
464	244	0.44	15051	27.09	**511**	364	0.66	30636	55.14	**558**	274	0.49	47754	85.95
465	285	0.51	15336	27.60	**512**	382	0.69	31018	55.83	**559**	242	0.44	47996	86.39
466	261	0.47	15597	28.07	**513**	412	0.74	31430	56.57	**560**	282	0.51	48278	86.90
467	254	0.46	15851	28.53	**514**	420	0.76	31850	57.33	**561**	232	0.42	48510	87.31
468	258	0.46	16109	28.99	**515**	393	0.71	32243	58.03	**562**	258	0.46	48768	87.78
469	272	0.49	16381	29.48	**516**	429	0.77	32672	58.81	**563**	263	0.47	49031	88.25
470	261	0.47	16642	29.95	**517**	386	0.69	33058	59.50	**564**	240	0.43	49271	88.68
471	294	0.53	16936	30.48	**518**	445	0.80	33503	60.30	**565**	236	0.42	49507	89.11
472	255	0.46	17191	30.94	**519**	394	0.71	33897	61.01	**566**	239	0.43	49746	89.54
473	286	0.51	17477	31.46	**520**	377	0.68	34274	61.69	**567**	204	0.37	49950	89.90
474	270	0.49	17747	31.94	**521**	372	0.67	34646	62.36	**568**	243	0.44	50193	90.34
475	316	0.57	18063	32.51	**522**	405	0.73	35051	63.09	**569**	216	0.39	50409	90.73
476	310	0.56	18373	33.07	**523**	402	0.72	35453	63.81	**570**	196	0.35	50605	91.08
477	284	0.51	18657	33.58	**524**	372	0.67	35825	64.48	**571**	189	0.34	50794	91.42
478	324	0.58	18981	34.16	**525**	374	0.67	36199	65.15	**572**	188	0.34	50982	91.76
479	282	0.51	19263	34.67	**526**	396	0.71	36595	65.87	**573**	203	0.37	51185	92.13
480	326	0.59	19589	35.26	**527**	366	0.66	36961	66.53	**574**	178	0.32	51363	92.45
481	309	0.56	19898	35.81	**528**	405	0.73	37366	67.25	**575**	164	0.30	51527	92.74
482	294	0.53	20192	36.34	**529**	391	0.70	37757	67.96	**576**	159	0.29	51686	93.03
483	314	0.57	20506	36.91	**530**	414	0.75	38171	68.70	**577**	174	0.31	51860	93.34
484	307	0.55	20813	37.46	**531**	405	0.73	38576	69.43	**578**	153	0.28	52013	93.62
485	298	0.54	21111	38.00	**532**	368	0.66	38944	70.09	**579**	177	0.32	52190	93.94
486	322	0.58	21433	38.58	**533**	423	0.76	39367	70.86	**580**	148	0.27	52338	94.20
487	340	0.61	21773	39.19	**534**	369	0.66	39736	71.52	**581**	153	0.28	52491	94.48

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Table 189. Science Grade 10 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq.	Cum. %	SS	Freq.	%	Cum. Freq.	Cum. %
582	147	0.26	52638	94.74	**629**	15	0.03	55409	99.73
583	140	0.25	52778	94.99	**630**	13	0.02	55422	99.75
584	137	0.25	52915	95.24	**631**	6	0.01	55428	99.76
585	134	0.24	53049	95.48	**632**	10	0.02	55438	99.78
586	130	0.23	53179	95.72	**633**	15	0.03	55453	99.81
587	137	0.25	53316	95.96	**634**	4	0.01	55457	99.82
588	136	0.24	53452	96.21	**635**	11	0.02	55468	99.84
589	109	0.20	53561	96.40	**636**	7	0.01	55475	99.85
590	89	0.16	53650	96.56	**637**	5	0.01	55480	99.86
591	94	0.17	53744	96.73	**638**	6	0.01	55486	99.87
592	93	0.17	53837	96.90	**639**	6	0.01	55492	99.88
593	84	0.15	53921	97.05	**640**	3	0.01	55495	99.88
594	97	0.17	54018	97.23	**641**	4	0.01	55499	99.89
595	116	0.21	54134	97.44	**642**	5	0.01	55504	99.90
596	87	0.16	54221	97.59	**643**	4	0.01	55508	99.91
597	59	0.11	54280	97.70	**644**	2	0.00	55510	99.91
598	80	0.14	54360	97.84	**645**	2	0.00	55512	99.92
599	68	0.12	54428	97.96	**646**	5	0.01	55517	99.92
600	60	0.11	54488	98.07	**647**	5	0.01	55522	99.93
601	58	0.10	54546	98.18	**648**	2	0.00	55524	99.94
602	58	0.10	54604	98.28	**649**	2	0.00	55526	99.94
603	62	0.11	54666	98.39	**650**	1	0.00	55527	99.94
604	45	0.08	54711	98.47	**651**	2	0.00	55529	99.95
605	46	0.08	54757	98.56	**652**	1	0.00	55530	99.95
606	47	0.08	54804	98.64	**653**	5	0.01	55535	99.96
607	45	0.08	54849	98.72	**654**	4	0.01	55539	99.96
608	51	0.09	54900	98.81	**655**	1	0.00	55540	99.97
609	45	0.08	54945	98.89	**656**	3	0.01	55543	99.97
610	35	0.06	54980	98.96	**657**	2	0.00	55545	99.97
611	34	0.06	55014	99.02	**658**	2	0.00	55547	99.98
612	39	0.07	55053	99.09	**660**	4	0.01	55551	99.99
613	46	0.08	55099	99.17	**661**	2	0.00	55553	99.99
614	32	0.06	55131	99.23	**665**	1	0.00	55554	99.99
615	18	0.03	55149	99.26	**666**	1	0.00	55555	99.99
616	26	0.05	55175	99.31	**686**	1	0.00	55556	99.99
617	21	0.04	55196	99.35	**693**	1	0.00	55557	100
618	24	0.04	55220	99.39	**714**	2	0.00	55559	100
619	23	0.04	55243	99.43					
620	18	0.03	55261	99.46					
621	19	0.03	55280	99.50					
622	25	0.04	55305	99.54					
623	12	0.02	55317	99.56					
624	16	0.03	55333	99.59					
625	18	0.03	55351	99.63					
626	17	0.03	55368	99.66					
627	12	0.02	55380	99.68					
628	14	0.03	55394	99.70					

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Table 190. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3

NAME	CS1	SA1/4	SA2	SA3	Total
MEAN	552.5	551.2	547.5	565.7	552.5
STD	84.70	97.30	113.52	128.51	84.70
N	60884	60884	60884	60884	60884
CS1		0.916	0.852	0.761	1.000
SA1/4			0.719	0.629	0.916
SA2				0.596	0.852
SA3					0.761

Table 191. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 4

NAME	CS1	CS4	CS5	CS6	SA1/4	SA2	SA3	Total
MEAN	586.3	585.1	582.9	579.9	583.9	586.3	623.7	585.0
STD	67.79	93.96	100.52	89.84	70.71	81.95	150.66	61.64
N	61090	61090	61090	61090	61090	61090	61090	61090
CS1		0.713	0.703	0.723	0.865	0.836	0.719	0.927
CS4			0.618	0.645	0.788	0.745	0.514	0.800
CS5				0.632	0.701	0.655	0.523	0.805
CS6					0.852	0.684	0.510	0.814
SA1/4						0.753	0.572	0.927
SA2							0.549	0.855
SA3								0.672

Table 192. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 5

NAME	CS1	CS4	CS5	CS6	SA1/4	SA2	SA3	Total
MEAN	613.7	613.7	610.8	609.7	612.1	613.0	639.5	612.2
STD	83.59	87.53	91.32	89.40	75.61	92.86	153.59	67.75
N	59809	59809	59809	59809	59809	59809	59809	59809
CS1		0.719	0.705	0.724	0.834	0.823	0.729	0.899
CS4			0.677	0.703	0.838	0.786	0.567	0.854
CS5				0.675	0.729	0.678	0.568	0.836
CS6					0.875	0.723	0.567	0.852
SA1/4						0.750	0.612	0.933
SA2							0.576	0.863
SA3								0.705

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Table 193. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 6

NAME	CS1	CS4	CS5	CS6	SA1/4	SA2	SA3	Total
MEAN	630.1	628.8	636.0	624.7	627.7	624.8	666.9	628.7
STD	77.52	81.96	102.22	92.81	74.97	103.08	143.75	67.49
N	58816	58816	58816	58816	58816	58816	58816	58816
CS1		0.737	0.693	0.736	0.854	0.763	0.755	0.912
CS4			0.645	0.722	0.833	0.834	0.561	0.861
CS5				0.632	0.690	0.627	0.559	0.811
CS6					0.911	0.694	0.550	0.856
SA1/4						0.743	0.607	0.938
SA2								0.827
SA3								0.704

Table 194. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 7

NAME	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
MEAN	642.5	643.7	644.4	639.1	656.8	640.0	664.7	641.2	641.0
STD	72.56	76.64	87.97	82.04	112.69	78.27	126.65	77.60	64.30
N	57766	57766	57766	57766	57766	57766	57766	57766	57766
CS1		0.758	0.727	0.745	0.700	0.826	0.775	0.765	0.924
CS4			0.686	0.720	0.612	0.872	0.591	0.801	0.879
CS5				0.675	0.563	0.696	0.568	0.678	0.842
CS6					0.692	0.734	0.573	0.864	0.866
SA1						0.599	0.468	0.590	0.727
SA2							0.575	0.719	0.883
SA3								0.576	0.716
SA4									0.873

Table 195. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 8

NAME	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
MEAN	653.7	650.4	653.9	650.9	656.9	653.5	678.9	646.3	652.1
STD	67.63	80.04	86.84	74.35	102.65	72.09	125.53	83.40	59.97
N	57130	57130	57130	57130	57130	57130	57130	57130	57130
CS1		0.740	0.714	0.735	0.716	0.849	0.756	0.706	0.925
CS4			0.668	0.694	0.638	0.826	0.557	0.763	0.857
CS5				0.669	0.578	0.683	0.540	0.644	0.835
CS6					0.696	0.707	0.558	0.830	0.858
SA1						0.601	0.489	0.565	0.742
SA2							0.547	0.667	0.881
SA3								0.521	0.697
SA4									0.825

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Table 196. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 9

NAME	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
MEAN	662.0	661.5	668.5	657.0	658.4	662.5	679.2	656.8	661.2
STD	60.34	75.25	74.76	75.72	73.85	65.17	106.22	93.37	52.72
N	59056	59056	59056	59056	59056	59056	59056	59056	59056
CS1		0.733	0.674	0.723	0.762	0.867	0.699	0.699	0.918
CS4			0.626	0.668	0.732	0.820	0.533	0.650	0.839
CS5				0.590	0.605	0.638	0.529	0.561	0.796
CS6					0.862	0.717	0.481	0.712	0.827
SA1						0.709	0.490	0.606	0.842
SA2							0.527	0.639	0.883
SA3								0.473	0.656
SA4									0.758

Table 197. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 10

NAME	CS1	CS4	CS5	CS6	SA1	SA2	SA3	SA4	Total
MEAN	681.1	678.8	686.0	680.5	682.3	676.4	689.4	682.5	680.6
STD	66.65	73.89	79.63	73.16	72.28	76.99	95.99	87.49	58.50
N	55237	55237	55237	55237	55237	55237	55237	55237	55237
CS1		0.765	0.719	0.758	0.835	0.824	0.782	0.665	0.927
CS4			0.657	0.722	0.795	0.836	0.605	0.666	0.867
CS5				0.643	0.647	0.662	0.609	0.588	0.822
CS6					0.809	0.789	0.560	0.829	0.873
SA1						0.737	0.578	0.632	0.878
SA2							0.573	0.647	0.876
SA3								0.530	0.732
SA4									0.771

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Table 198. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3

NAME	CS2	CS3	SA5	SA7	SA8	Total
MEAN	467.3	473.0	468.9	484.1	483.4	465.3
STD	56.49	70.34	58.18	96.25	95.08	50.98
N	60770	60770	60770	60770	60770	60770
CS2		0.669	0.932	0.563	0.614	0.897
CS3			0.648	0.791	0.851	0.891
SA5				0.525	0.582	0.858
SA7					0.544	0.744
SA8						0.812

Table 199. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 4

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	486.4	490.3	487.1	501.0	505.9	494.3	485.4
STD	56.96	65.07	64.66	97.18	93.71	89.19	52.03
N	61099	61099	61099	61099	61099	61099	61099
CS2		0.720	0.881	0.766	0.603	0.636	0.931
CS3			0.636	0.513	0.789	0.870	0.898
SA5				0.523	0.527	0.572	0.819
SA6					0.404	0.452	0.692
SA7						0.539	0.743
SA8							0.799

Table 200. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 5

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	508.1	511.2	508.6	520.6	516.1	518.6	507.0
STD	60.54	66.23	73.99	100.22	79.73	91.66	55.38
N	59745	59745	59745	59745	59745	59745	59745
CS2		0.726	0.818	0.733	0.701	0.652	0.933
CS3			0.588	0.473	0.839	0.853	0.906
SA5				0.494	0.520	0.517	0.759
SA6					0.399	0.405	0.654
SA7						0.604	0.815
SA8							0.804

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Table 201. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 6

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	524.8	528.9	527.5	535.2	532.4	536.9	523.5
STD	66.92	77.05	80.84	103.54	92.47	104.00	61.63
N	58856	58856	58856	58856	58856	58856	58856
CS2		0.719	0.842	0.772	0.683	0.673	0.927
CS3			0.611	0.495	0.893	0.797	0.900
SA5				0.498	0.565	0.540	0.782
SA6					0.441	0.423	0.683
SA7						0.618	0.833
SA8							0.790

Table 202. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 7

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	553.6	556.9	556.0	575.1	561.9	557.3	552.2
STD	76.55	83.56	88.11	133.80	101.27	103.77	70.36
N	57773	57773	57773	57773	57773	57773	57773
CS2		0.743	0.875	0.704	0.720	0.699	0.931
CS3			0.654	0.467	0.883	0.846	0.920
SA5				0.467	0.606	0.593	0.817
SA6					0.417	0.418	0.621
SA7						0.663	0.860
SA8							0.822

Table 203. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 8

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	566.0	570.1	566.3	615.2	577.0	574.3	564.9
STD	77.15	87.22	83.47	168.37	108.29	110.70	71.36
N	57103	57103	57103	57103	57103	57103	57103
CS2		0.740	0.925	0.708	0.693	0.696	0.940
CS3			0.688	0.474	0.861	0.872	0.905
SA5				0.514	0.621	0.635	0.870
SA6					0.417	0.431	0.640
SA7						0.652	0.820
SA8							0.827

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Table 204. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 9

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	562.9	565.3	565.5	613.6	569.4	564.6	561.4
STD	86.50	90.72	97.70	180.06	109.05	105.88	79.26
N	59098	59098	59098	59098	59098	59098	59098
CS2		0.762	0.878	0.751	0.753	0.722	0.938
CS3			0.663	0.521	0.872	0.899	0.927
SA5				0.539	0.621	0.613	0.821
SA6					0.474	0.479	0.677
SA7						0.707	0.863
SA8							0.858

Table 205. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 10

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	576.8	582.3	579.7	615.8	605.9	582.5	575.0
STD	96.55	103.41	109.08	179.28	150.23	114.01	87.97
N	55225	55225	55225	55225	55225	55225	55225
CS2		0.733	0.891	0.762	0.654	0.702	0.934
CS3			0.652	0.488	0.864	0.883	0.910
SA5				0.530	0.572	0.605	0.830
SA6					0.429	0.449	0.675
SA7						0.661	0.805
SA8							0.840

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Table 206. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 3

NAME	CS1	CS2/3	CS4/5	CS6	Total
MEAN	468.0	476.9	471.9	469.4	467.5
STD	113.59	120.51	104.85	113.50	92.58
N	62045	62045	62045	62045	62045
CS1		0.703	0.723	0.668	0.876
CS2/3			0.716	0.671	0.874
CS4/5				0.680	0.900
CS6					0.839

Table 207. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 4

NAME	CS1	CS2	CS3	CS4/5	CS6	SA1	SA2	SA3	Total
MEAN	492.6	510.7	495.1	506.4	500.3	493.0	511.2	517.9	492.9
STD	92.89	123.73	106.45	104.82	105.31	87.29	125.46	132.57	78.99
N	61259	61259	61259	61259	61259	61259	61259	61259	61259
CS1		0.706	0.734	0.710	0.742	0.954	0.701	0.616	0.913
CS2			0.659	0.637	0.666	0.728	0.989	0.552	0.810
CS3				0.685	0.689	0.761	0.653	0.586	0.857
CS4/5					0.672	0.736	0.632	0.834	0.842
CS6						0.845	0.660	0.590	0.863
SA1							0.721	0.639	0.943
SA2								0.546	0.803
SA3									0.724

Table 208. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 5

NAME	CS1	CS2	CS3	CS4/5	CS6	SA1	SA2	SA3	Total
MEAN	529.4	525.9	525.0	521.7	525.8	533.6	525.5	530.6	519.8
STD	102.51	95.30	97.57	87.81	99.01	112.80	98.35	108.31	72.25
N	59863	59863	59863	59863	59863	59863	59863	59863	59863
CS1		0.710	0.695	0.698	0.717	0.915	0.698	0.651	0.865
CS2			0.709	0.703	0.718	0.692	0.981	0.676	0.865
CS3				0.713	0.704	0.673	0.695	0.920	0.861
CS4/5					0.692	0.683	0.690	0.669	0.865
CS6						0.704	0.705	0.666	0.868
SA1							0.680	0.630	0.837
SA2								0.655	0.850
SA3									0.808

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Table 209. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 6

NAME	CS1	CS2	CS3	CS4/5	CS6	SA1	SA2	SA3	Total
MEAN	537.7	541.4	538.9	535.8	554.8	540.4	539.7	520.7	537.0
STD	100.31	96.83	95.17	87.96	121.47	103.25	97.84	119.99	75.06
N	58904	58904	58904	58904	58904	58904	58904	58904	58904
CS1		0.706	0.711	0.730	0.667	0.931	0.703	0.642	0.876
CS2			0.706	0.719	0.656	0.710	0.969	0.624	0.862
CS3				0.731	0.656	0.711	0.718	0.640	0.865
CS4/5					0.673	0.729	0.714	0.873	0.889
CS6						0.726	0.650	0.594	0.807
SA1							0.706	0.640	0.875
SA2								0.620	0.856
SA3									0.777

Table 210. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 7

NAME	CS1/6	CS2	CS3	CS4/5	SA1	SA2	Total
MEAN	552.3	549.8	549.9	542.6	550.7	536.5	551.6
STD	83.68	97.40	92.70	98.96	94.61	109.68	75.10
N	57836	57836	57836	57836	57836	57836	57836
CS1/6		0.773	0.760	0.741	0.862	0.717	0.919
CS2			0.742	0.714	0.718	0.682	0.888
CS3				0.713	0.766	0.681	0.880
CS4/5					0.691	0.949	0.865
SA1						0.662	0.850
SA2							0.830

Table 211. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 8

NAME	CS1/6	CS2	CS3	CS4/5	SA1	SA2	SA3	Total
MEAN	564.5	576.9	575.7	570.0	577.8	568.7	556.0	575.1
STD	100.84	84.97	90.84	90.00	87.54	98.77	128.79	71.86
N	57191	57191	57191	57191	57191	57191	57191	57191
CS1/6		0.712	0.692	0.689	0.696	0.827	0.605	0.843
CS2			0.743	0.738	0.978	0.685	0.647	0.911
CS3				0.707	0.727	0.680	0.619	0.873
CS4/5					0.721	0.729	0.843	0.865
SA1						0.670	0.634	0.891
SA2							0.587	0.808
SA3								0.754

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Table 212. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 9

NAME	CS1/6	CS2	CS3	CS4/5	SA1	SA2	Total
MEAN	563.2	578.2	575.8	556.1	575.7	566.4	578.1
STD	107.03	78.55	84.65	108.43	86.28	105.73	71.87
N	59144	59144	59144	59144	59144	59144	59144
CS1/6		0.719	0.674	0.642	0.691	0.858	0.816
CS2			0.776	0.708	0.928	0.728	0.936
CS3				0.668	0.790	0.687	0.889
CS4/5					0.679	0.749	0.803
SA1						0.699	0.905
SA2							0.827

Table 213. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 10

NAME	CS1/6	CS2	CS3	CS4/5	SA1	SA2	Total
MEAN	568.5	584.0	587.8	575.3	584.2	589.0	587.7
STD	110.89	87.39	81.02	99.81	90.16	98.86	73.16
N	55419	55419	55419	55419	55419	55419	55419
CS1/6		0.703	0.673	0.676	0.661	0.537	0.807
CS2			0.750	0.746	0.848	0.602	0.909
CS3				0.713	0.816	0.775	0.891
CS4/5					0.711	0.580	0.867
SA1						0.576	0.877
SA2							0.701

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Table 214. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 5

NAME	CS1/5	CS2	CS3	CS4	SA1	SA2	Total
MEAN	499.4	501.3	505.7	500.8	503.4	504.7	498.7
STD	68.66	84.53	84.40	78.79	83.17	89.17	63.22
N	60043	60043	60043	60043	60043	60043	60043
CS1/5		0.737	0.675	0.707	0.889	0.845	0.943
CS2			0.631	0.670	0.651	0.628	0.852
CS3				0.632	0.605	0.571	0.790
CS4					0.631	0.598	0.839
SA1						0.625	0.837
SA2							0.797

Table 215. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 8

NAME	CS1/5	CS2	CS3	CS4	SA1	SA2	SA3	SA5	SA6	Total
MEAN	498.5	491.0	495.2	494.3	498.5	502.6	490.0	491.7	494.3	498.5
STD	66.46	85.82	74.72	76.77	75.90	88.70	93.93	88.83	90.09	60.93
N	57478	57478	57478	57478	57478	57478	57478	57478	57478	57478
CS1/5		0.700	0.763	0.731	0.927	0.854	0.644	0.652	0.626	0.954
CS2			0.653	0.636	0.652	0.591	0.919	0.578	0.550	0.797
CS3				0.679	0.711	0.641	0.605	0.860	0.588	0.862
CS4					0.677	0.615	0.591	0.589	0.848	0.831
SA1						0.685	0.602	0.608	0.578	0.884
SA2							0.539	0.546	0.524	0.807
SA3								0.535	0.514	0.736
SA5								1.000	0.515	0.743
SA6								0.515		0.713

Table 216. Scale Score Correlations by Content Standard and Subcontent Area, Science Grade 10

NAME	CS1/5	CS2	CS3	CS4	SA1	SA2	SA4	SA5	SA6	Total
MEAN	495.5	484.1	491.2	491.8	497.0	500.7	497.6	481.8	493.6	494.8
STD	67.70	88.74	79.40	79.40	80.84	82.09	115.93	99.40	84.52	64.12
N	55559	55559	55559	55559	55559	55559	55559	55559	55559	55559
CS1/5		0.700	0.717	0.739	0.892	0.886	0.561	0.587	0.699	0.956
CS2			0.608	0.641	0.622	0.624	0.714	0.500	0.603	0.786
CS3				0.669	0.635	0.634	0.488	0.804	0.630	0.811
CS4					0.650	0.652	0.487	0.549	0.938	0.851
SA1						0.688	0.511	0.521	0.615	0.846
SA2							0.501	0.523	0.617	0.843
SA4								0.409	0.459	0.625
SA5									0.518	0.663
SA6										0.803

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Table 217. Scale Score Correlations by Content Standard and Subcontent Area, Spanish Reading Grade 3

NAME	CS1	SA1/4	SA2	SA3	Total
MEAN	519.3	519.4	519.1	522.3	519.3
STD	52.75	63.68	63.23	74.65	52.75
N	1210	1210	1210	1210	1210
CS1		0.922	0.831	0.761	1.000
SA1/4			0.675	0.651	0.922
SA2				0.549	0.831
SA3					0.761

Table 218. Scale Score Correlations by Content Standard and Subcontent Area, Spanish Reading Grade 4

NAME	CS1	CS4	CS5	CS6	SA1/4	SA2	SA3	Total
MEAN	532.5	528.6	533.3	527.7	528.7	532.1	534.5	532.2
STD	44.12	55.98	69.19	57.94	46.26	49.19	71.56	41.06
N	113	113	113	113	113	113	113	113
CS1		0.658	0.718	0.666	0.851	0.830	0.722	0.919
CS4			0.751	0.512	0.826	0.698	0.500	0.830
CS5				0.591	0.787	0.687	0.449	0.863
CS6					0.724	0.684	0.482	0.748
SA1/4						0.714	0.581	0.955
SA2							0.548	0.848
SA3								0.663

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Table 219. Scale Score Correlations by Content Standard and Subcontent Area, Spanish Writing Grade 3

NAME	CS2	CS3	SA5	SA7	SA8	Total
MEAN	517.7	502.4	537.3	505.6	511.6	507.6
STD	82.28	80.98	109.64	91.70	122.54	74.24
N	1211	1211	1211	1211	1211	1211
CS2		0.767	0.888	0.665	0.584	0.936
CS3			0.637	0.907	0.807	0.934
SA5				0.496	0.496	0.810
SA7					0.579	0.833
SA8						0.742

Table 220. Scale Score Correlations by Content Standard and Subcontent Area, Spanish Writing Grade 4

NAME	CS2	CS3	SA5	SA6	SA7	SA8	Total
MEAN	507.7	518.1	506.1	515.4	521.1	494.9	514.7
STD	43.51	41.75	54.10	83.83	60.60	90.54	37.86
N	113	113	113	113	113	113	113
CS2		0.661	0.835	0.705	0.501	0.405	0.864
CS3			0.556	0.431	0.852	0.561	0.940
SA5				0.402	0.446	0.402	0.723
SA6					0.274	0.130	0.587
SA7						0.322	0.778
SA8							0.553

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Table 221. Cronbach Alpha Reliability Coefficients for Content Standards

Content	Grade	Alpha cs1	Alpha cs2	Alpha cs3	Alpha cs4	Alpha cs5	Alpha cs6	Total Alpha
Reading	03	0.90						0.90
Reading	04	0.86			0.76	0.75	0.74	0.94
Reading	05	0.85			0.71	0.70	0.71	0.93
Reading	06	0.83			0.69	0.80	0.74	0.93
Reading	07	0.78			0.74	0.76	0.70	0.92
Reading	08	0.79			0.70	0.75	0.68	0.92
Reading	09	0.80			0.73	0.78	0.72	0.93
Reading	10	0.81			0.70	0.77	0.76	0.93
Spanish Reading	03	0.88						0.88
Spanish Reading	04	0.84			0.67	0.70	0.59	0.91
Writing	03		0.78	0.87				0.91
Writing	04		0.81	0.86				0.91
Writing	05		0.82	0.86				0.91
Writing	06		0.81	0.86				0.91
Writing	07		0.83	0.85				0.91
Writing	08		0.83	0.86				0.91
Writing	09		0.83	0.86				0.91
Writing	10		0.83	0.89				0.92
Spanish Writing	03		0.83	0.86				0.91
Spanish Writing	04		0.72	0.79				0.85
Mathematics	03	0.69	0.75		0.73		0.66	0.91
Mathematics	04	0.78	0.71	0.75	0.79		0.77	0.94
Mathematics	05	0.81	0.75	0.75	0.73		0.79	0.94
Mathematics	06	0.77	0.73	0.73	0.73		0.73	0.93
Mathematics	07	0.81	0.76	0.70	0.80			0.93
Mathematics	08	0.80	0.80	0.73	0.75			0.93
Mathematics	09	0.73	0.79	0.75	0.79			0.93
Mathematics	10	0.70	0.80	0.66	0.76			0.92
Science	05	0.85	0.74	0.62	0.70			0.92
Science	08	0.86	0.70	0.71	0.69			0.93
Science	10	0.85	0.68	0.65	0.70			0.92

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Table 222. Cronbach Alpha Reliability Coefficients for Subcontent Areas

Content	Grade	Alpha sa1	Alpha sa2	Alpha sa3	Alpha sa4	Alpha sa5	Alpha sa6	Alpha sa7	Alpha sa8
Reading	3	0.81	0.75	0.69					
Reading	4	0.86	0.81	0.70					
Reading	5	0.85	0.75	0.67					
Reading	6	0.84	0.73	0.68					
Reading	7	0.67	0.74	0.66	0.71				
Reading	8	0.60	0.75	0.69	0.70				
Reading	9	0.77	0.77	0.61	0.60				
Reading	10	0.77	0.78	0.65	0.63				
Spanish Reading	3	0.82	0.64	0.67					
Spanish Reading	4	0.81	0.74	0.54					
Writing	3					0.79		0.66	0.81
Writing	4					0.67	0.67	0.74	0.77
Writing	5					0.63	0.69	0.79	0.81
Writing	6					0.64	0.70	0.81	0.77
Writing	7					0.71	0.69	0.81	0.72
Writing	8					0.74	0.68	0.80	0.77
Writing	9					0.67	0.70	0.82	0.77
Writing	10					0.70	0.71	0.87	0.72
Spanish Writing	3					0.87		0.81	0.73
Spanish Writing	4					0.58	0.66	0.76	0.65
Mathematics	3								
Mathematics	4	0.83	0.68	0.50					
Mathematics	5	0.80	0.71	0.68					
Mathematics	6	0.78	0.72	0.63					
Mathematics	7	0.70	0.76						
Mathematics	8	0.75	0.65	0.56					
Mathematics	9	0.76	0.78						
Mathematics	10	0.72	0.39						
Science	5	0.72	0.71						
Science	8	0.76	0.72	0.57		0.58	0.51		
Science	10	0.69	0.71		0.46	0.54	0.61		

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Table 223. Subgroup Reliability for the CSAP Mathematics Tests

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
3	No Disability	56561	475.30	88.59	150	700	150	700	0.900	27.99
	Disability	5483	386.72	94.21	150	700	150	700	0.907	28.80
	No IEP	56565	475.30	88.59	150	700	150	700	0.900	27.99
	IEP	5478	386.68	94.21	150	700	150	700	0.907	28.80
	No Accommodation	50949	484.56	85.91	150	700	150	700	0.893	28.09
	Accommodation	11044	388.57	80.64	150	700	150	700	0.881	27.85
	Am. Indian/AK	716	439.47	82.59	150	700	150	700	0.892	27.09
	Asian/Pac. Isl.	2439	498.77	97.15	150	700	150	700	0.916	28.09
	Black	3618	418.48	90.67	150	700	150	700	0.907	27.62
	Hispanic	18834	423.75	84.72	150	700	150	700	0.895	27.45
	White	36437	493.40	85.58	150	700	150	700	0.893	28.00
	Free Lunch Elig.	21703	422.49	84.86	150	700	150	700	0.896	27.39
	Reduced Lunch Elig.	5059	454.04	84.02	150	700	150	700	0.894	27.38
	Not FRL Elig.	35264	497.11	86.50	150	700	150	700	0.895	28.09
	Female	30553	464.14	89.56	150	700	150	700	0.904	27.74
	Male	31488	470.71	95.31	150	700	150	700	0.913	28.07
	Lang. Prof. NA	49831	480.04	89.74	150	700	150	700	0.903	27.91
	Lang. Prof. NEP	2984	351.46	77.47	150	700	150	700	0.860	29.03
	Lang. Prof. LEP	7844	424.78	71.25	150	700	150	700	0.861	26.52
	Lang. Prof. FEP	1385	507.29	77.28	150	700	197	700	0.861	28.77
	Not Mig. or Immig.	60973	468.42	92.26	150	700	150	700	0.908	27.95
	Mig. or Immig.	1068	413.96	95.10	150	700	150	700	0.909	28.67
4	No Disability	55510	501.13	73.69	180	780	180	780	0.934	18.87
	Disability	5745	412.98	83.75	180	780	180	741	0.941	20.43
	No IEP	55510	501.13	73.69	180	780	180	780	0.934	18.87
	IEP	5741	412.87	83.68	180	780	180	741	0.940	20.43
	No Accommodation	50595	507.56	71.31	180	780	180	780	0.930	18.87
	Accommodation	10632	422.96	76.31	180	780	180	780	0.932	19.88
	Am. Indian/AK	696	463.36	79.26	180	780	199	759	0.943	18.89
	Asian/Pac. Isl.	2364	521.55	84.55	180	780	180	780	0.946	19.58
	Black	3708	454.61	79.32	180	780	180	706	0.942	19.04
	Hispanic	18599	458.17	74.63	180	780	180	780	0.937	18.80
	White	35891	513.48	72.45	180	780	180	780	0.933	18.72
	Free Lunch Elig.	21133	455.02	75.03	180	780	180	780	0.937	18.90
	Reduced Lunch Elig.	5243	481.24	71.32	180	780	180	780	0.932	18.54
	Not FRL Elig.	34857	517.56	72.70	180	780	180	780	0.933	18.79
	Female	30014	491.17	76.57	180	780	180	780	0.940	18.73
	Male	31244	494.49	81.21	180	780	180	780	0.945	18.98
	Lang. Prof. NA	49644	502.64	76.11	180	780	180	780	0.939	18.75
	Lang. Prof. NEP	2156	376.63	74.67	180	780	180	643	0.918	21.36
	Lang. Prof. LEP	7066	451.17	60.43	180	780	184	761	0.909	18.26
	Lang. Prof. FEP	2391	517.81	61.86	180	780	180	780	0.904	19.13
	Not Mig. or Immig.	60352	493.69	78.56	180	780	180	780	0.942	18.86
	Mig. or Immig.	899	437.34	87.46	180	780	180	759	0.946	20.38

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Table 223. Subgroup Reliability for the CSAP Mathematics Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
5	No Disability	53886	528.34	66.81	220	800	220	800	0.936	16.88
	Disability	5976	442.80	73.83	220	800	220	711	0.930	19.50
	No IEP	53891	528.34	66.82	220	800	220	800	0.936	16.88
	IEP	5968	442.69	73.79	220	800	220	711	0.930	19.51
	No Accommodation	50131	532.63	65.31	220	800	220	800	0.933	16.85
	Accommodation	9702	453.51	70.10	220	800	220	800	0.927	18.96
	Am. Indian/AK	684	488.94	72.23	220	800	220	790	0.938	18.01
	Asian/Pac. Isl.	2248	549.24	77.79	220	800	220	800	0.950	17.47
	Black	3648	483.86	74.51	220	800	220	736	0.943	17.85
	Hispanic	17802	489.34	66.52	220	800	220	800	0.934	17.15
	White	35481	537.50	67.44	220	800	220	800	0.937	16.87
	Free Lunch Elig.	20106	484.72	67.69	220	800	220	800	0.934	17.45
	Reduced Lunch Elig.	5045	507.93	64.95	220	800	230	800	0.934	16.70
	Not FRL Elig.	34698	541.85	67.20	220	800	220	800	0.937	16.91
	Female	29327	519.60	69.16	220	800	220	800	0.940	16.93
	Male	30534	519.99	75.10	220	800	220	800	0.947	17.30
	Lang. Prof. NA	49173	527.40	70.63	220	800	220	800	0.942	17.03
	Lang. Prof. NEP	1228	409.96	70.91	220	800	220	644	0.915	20.71
	Lang. Prof. LEP	5955	472.22	54.61	220	800	250	800	0.904	16.92
	Lang. Prof. FEP	3505	532.39	57.51	220	800	220	800	0.918	16.46
	Not Mig. or Immig.	59070	520.43	71.90	220	800	220	800	0.943	17.12
	Mig. or Immig.	788	472.65	82.22	220	800	220	800	0.948	18.82
6	No Disability	53244	546.15	68.27	240	830	240	830	0.927	18.47
	Disability	5657	451.26	81.61	240	830	240	738	0.907	24.93
	No IEP	53243	546.15	68.27	240	830	240	830	0.927	18.47
	IEP	5654	451.23	81.63	240	830	240	738	0.907	24.92
	No Accommodation	51296	547.98	67.84	240	830	240	830	0.926	18.42
	Accommodation	7527	462.31	79.27	240	830	240	760	0.908	24.08
	Am. Indian/AK	712	508.89	73.67	240	830	240	726	0.918	21.08
	Asian/Pac. Isl.	2266	569.80	78.03	240	830	240	812	0.939	19.27
	Black	3629	501.56	78.33	240	830	240	830	0.925	21.42
	Hispanic	16975	503.77	70.99	240	830	240	810	0.916	20.54
	White	35321	555.13	69.07	240	830	240	830	0.929	18.42
	Free Lunch Elig.	19037	499.59	72.20	240	830	240	808	0.916	20.94
	Reduced Lunch Elig.	4933	522.34	67.84	240	830	240	830	0.918	19.39
	Not FRL Elig.	34908	559.56	68.62	240	830	240	830	0.928	18.39
	Female	28999	538.91	71.93	240	830	240	830	0.931	18.91
	Male	29903	535.21	77.93	240	830	240	830	0.937	19.64
	Lang. Prof. NA	48672	544.77	72.70	240	830	240	830	0.932	18.93
	Lang. Prof. NEP	934	415.58	85.40	240	830	240	673	0.885	28.97
	Lang. Prof. LEP	5102	478.50	60.91	240	830	240	732	0.876	21.41
	Lang. Prof. FEP	4195	545.45	58.68	240	830	240	830	0.908	17.84
	Not Mig. or Immig.	58124	537.72	74.62	240	830	240	830	0.933	19.24
	Mig. or Immig.	772	485.88	89.69	240	830	240	716	0.931	23.64

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Table 223. Subgroup Reliability for the CSAP Mathematics Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
7	No Disability	52483	560.52	68.73	280	860	280	860	0.925	18.86
	Disability	5351	464.58	79.23	280	860	280	747	0.891	26.19
	No IEP	52474	560.53	68.73	280	860	280	860	0.925	18.86
	IEP	5352	464.59	79.23	280	860	280	747	0.891	26.19
	No Accommodation	51214	560.97	68.90	280	860	280	860	0.925	18.90
	Accommodation	6556	478.72	81.48	280	860	280	797	0.908	24.76
	Am. Indian/AK	690	525.80	76.10	280	860	280	723	0.924	21.00
	Asian/Pac. Isl.	2239	585.81	74.43	280	860	280	858	0.937	18.71
	Black	3319	516.96	74.23	280	860	280	777	0.912	22.00
	Hispanic	16247	515.92	72.30	280	860	280	773	0.907	22.04
	White	35340	569.67	68.81	280	860	280	860	0.926	18.76
	Free Lunch Elig.	17755	511.95	72.40	280	860	280	816	0.905	22.35
	Reduced Lunch Elig.	4658	537.55	67.62	280	860	280	741	0.911	20.17
	Not FRL Elig.	35398	573.42	68.48	280	860	280	860	0.926	18.60
	Female	28297	552.66	71.10	280	860	280	860	0.927	19.23
	Male	29538	550.68	78.73	280	860	280	858	0.933	20.42
	Lang. Prof. NA	48196	559.42	72.44	280	860	280	860	0.928	19.39
	Lang. Prof. NEP	785	428.03	87.65	280	860	280	711	0.878	30.57
	Lang. Prof. LEP	4203	485.73	62.52	280	860	280	760	0.853	23.95
	Lang. Prof. FEP	4651	551.50	61.57	280	860	280	788	0.906	18.85
	Not Mig. or Immig.	57063	552.38	74.63	280	860	280	860	0.929	19.82
	Mig. or Immig.	763	496.84	88.87	280	860	280	737	0.928	23.86
8	No Disability	52277	583.17	65.54	310	890	310	890	0.926	17.84
	Disability	4913	488.75	79.13	310	890	310	788	0.882	27.21
	No IEP	52277	583.18	65.53	310	890	310	890	0.926	17.84
	IEP	4907	488.68	79.11	310	890	310	788	0.882	27.22
	No Accommodation	51094	583.03	65.73	310	890	310	890	0.926	17.89
	Accommodation	6018	507.23	84.84	310	890	310	845	0.917	24.50
	Am. Indian/AK	709	551.04	71.70	310	890	310	720	0.915	20.96
	Asian/Pac. Isl.	2108	607.00	75.06	310	890	310	890	0.939	18.53
	Black	3431	539.25	72.98	310	890	310	773	0.909	22.02
	Hispanic	15679	541.54	68.80	310	890	310	890	0.904	21.27
	White	35262	592.02	65.79	310	890	310	890	0.927	17.76
	Free Lunch Elig.	16995	538.23	70.07	310	890	310	890	0.904	21.68
	Reduced Lunch Elig.	4544	561.26	64.60	310	890	310	783	0.910	19.39
	Not FRL Elig.	35630	594.41	66.05	310	890	310	890	0.928	17.77
	Female	28014	574.12	67.95	310	890	310	890	0.926	18.47
	Male	29173	575.97	75.41	310	890	310	890	0.934	19.43
	Lang. Prof. NA	48180	582.20	69.37	310	890	310	890	0.929	18.45
	Lang. Prof. NEP	674	452.11	82.80	310	890	310	719	0.865	30.42
	Lang. Prof. LEP	3553	508.40	63.11	310	890	310	771	0.846	24.74
	Lang. Prof. FEP	4782	570.01	58.12	310	890	310	879	0.907	17.70
	Not Mig. or Immig.	56422	575.85	71.33	310	890	310	890	0.930	18.90
	Mig. or Immig.	762	517.48	85.55	310	890	310	792	0.917	24.60

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Table 223. Subgroup Reliability for the CSAP Mathematics Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
9	No Disability	54148	585.91	66.11	340	920	340	920	0.923	18.34
	Disability	4990	493.82	77.69	340	920	340	823	0.873	27.71
	No IEP	54132	585.92	66.11	340	920	340	920	0.923	18.34
	IEP	4990	493.81	77.69	340	920	340	823	0.873	27.71
	No Accommodation	55259	583.47	68.13	340	920	340	920	0.924	18.77
	Accommodation	3782	499.77	79.43	340	920	340	773	0.889	26.49
	Am. Indian/AK	694	552.37	71.14	340	920	340	721	0.909	21.42
	Asian/Pac. Isl.	2248	604.24	77.48	340	920	340	920	0.942	18.63
	Black	3609	538.30	72.39	340	920	340	823	0.892	23.78
	Hispanic	15908	542.95	68.93	340	920	340	800	0.890	22.87
	White	36682	596.20	64.93	340	920	340	920	0.924	17.94
	Free Lunch Elig.	16048	539.88	69.80	340	920	340	770	0.886	23.61
	Reduced Lunch Elig.	4327	564.64	64.92	340	920	340	746	0.899	20.59
	Not FRL Elig.	38739	595.51	66.82	340	920	340	920	0.927	18.10
	Female	28741	578.17	68.17	340	920	340	902	0.920	19.24
	Male	30401	578.11	75.21	340	920	340	920	0.931	19.75
	Lang. Prof. NA	50365	585.44	69.39	340	920	340	920	0.926	18.92
	Lang. Prof. NEP	924	460.06	73.43	340	920	340	659	0.800	32.84
	Lang. Prof. LEP	3031	510.76	61.84	340	920	340	732	0.822	26.07
	Lang. Prof. FEP	4811	566.92	58.47	340	920	340	863	0.893	19.11
	Not Mig. or Immig.	58306	579.07	71.26	340	920	340	920	0.926	19.41
	Mig. or Immig.	812	511.91	83.80	340	920	340	716	0.905	25.82
10	No Disability	51154	595.13	67.81	370	950	370	904	0.915	19.78
	Disability	4255	498.73	76.33	370	950	370	775	0.840	30.51
	No IEP	51151	595.13	67.82	370	950	370	904	0.915	19.78
	IEP	4253	498.71	76.35	370	950	370	775	0.840	30.49
	No Accommodation	52275	592.67	69.63	370	950	370	904	0.916	20.20
	Accommodation	3064	503.07	79.88	370	950	370	766	0.867	29.10
	Am. Indian/AK	685	561.13	73.77	370	950	370	733	0.894	23.98
	Asian/Pac. Isl.	2026	614.04	78.65	370	950	370	904	0.938	19.58
	Black	3334	547.24	72.43	370	950	370	761	0.866	26.48
	Hispanic	14255	551.61	69.52	370	950	370	807	0.867	25.32
	White	35117	605.23	66.92	370	950	370	904	0.917	19.32
	Free Lunch Elig.	13626	546.35	71.45	370	950	370	803	0.865	26.21
	Reduced Lunch Elig.	3619	574.02	66.28	370	950	370	795	0.887	22.26
	Not FRL Elig.	38160	603.80	68.15	370	950	370	904	0.919	19.44
	Female	27162	586.32	68.91	370	950	370	847	0.909	20.83
	Male	28252	589.08	77.00	370	950	370	904	0.924	21.20
	Lang. Prof. NA	47650	594.81	70.73	370	950	370	904	0.917	20.32
	Lang. Prof. NEP	784	468.23	73.30	370	950	370	766	0.805	32.38
	Lang. Prof. LEP	2345	515.31	64.23	370	950	370	711	0.796	29.00
	Lang. Prof. FEP	4628	571.78	60.98	370	950	370	810	0.877	21.36
	Not Mig. or Immig.	54652	588.61	72.58	370	950	370	904	0.917	20.89
	Mig. or Immig.	752	523.47	85.15	370	950	370	767	0.894	27.78

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Table 224. Subgroup Reliability for the CSAP Reading Tests

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
3	No Disability	55515	561.83	74.52	150	795	150	795	0.900	23.62
	Disability	5368	456.05	117.20	150	795	150	731	0.901	36.91
	No IEP	55512	561.84	74.52	150	795	150	795	0.900	23.62
	IEP	5367	456.03	117.20	150	795	150	731	0.901	36.93
	No Accommodation	50567	568.41	70.92	150	795	150	795	0.894	23.12
	Accommodation	10275	474.21	101.80	150	795	150	747	0.880	35.31
	Am. Indian/AK	716	529.63	82.12	150	795	150	738	0.891	27.11
	Asian/Pac. Isl.	2437	569.72	85.28	150	795	150	795	0.914	25.05
	Black	3600	517.93	94.85	150	795	150	795	0.899	30.18
	Hispanic	17630	513.65	90.01	150	795	150	795	0.893	29.42
	White	36500	573.99	72.19	150	795	150	795	0.898	23.02
	Free Lunch Elig.	20636	511.72	92.08	150	795	150	795	0.894	30.05
	Reduced Lunch Elig.	4969	541.24	78.32	150	795	150	795	0.895	25.44
	Not FRL Elig.	35239	577.95	70.15	150	795	150	795	0.896	22.64
	Female	30013	561.13	77.89	150	795	150	795	0.906	23.90
	Male	30869	544.12	90.05	150	795	150	795	0.913	26.58
	Lang. Prof. NA	49919	563.97	77.74	150	795	150	795	0.904	24.12
	Lang. Prof. NEP	2237	404.59	113.40	150	795	150	660	0.795	51.33
	Lang. Prof. LEP	7342	513.72	68.02	150	795	150	751	0.843	26.93
	Lang. Prof. FEP	1383	583.78	56.86	150	795	150	795	0.840	22.71
	Not Mig. or Immig.	59915	553.49	83.90	150	795	150	795	0.910	25.23
	Mig. or Immig.	963	491.30	108.80	150	795	150	717	0.907	33.16
4	No Disability	55377	592.80	51.47	180	940	180	778	0.933	13.33
	Disability	5704	509.24	92.97	180	940	180	712	0.934	23.91
	No IEP	55378	592.80	51.46	180	940	180	778	0.933	13.32
	IEP	5702	509.19	92.98	180	940	180	712	0.934	23.91
	No Accommodation	49473	597.20	49.51	180	940	180	778	0.929	13.20
	Accommodation	11593	532.93	78.77	180	940	180	724	0.933	20.33
	Am. Indian/AK	688	569.58	58.67	180	940	180	688	0.940	14.40
	Asian/Pac. Isl.	2355	595.92	60.78	180	940	180	778	0.941	14.76
	Black	3703	562.92	65.65	180	940	180	709	0.938	16.37
	Hispanic	18484	557.17	64.67	180	940	180	747	0.933	16.79
	White	35856	601.19	53.28	180	940	180	762	0.933	13.75
	Free Lunch Elig.	21021	556.00	65.95	180	940	180	731	0.933	17.05
	Reduced Lunch Elig.	5234	577.30	55.45	180	940	180	758	0.931	14.61
	Not FRL Elig.	34805	603.66	52.08	180	940	180	778	0.932	13.59
	Female	29938	591.58	55.67	180	940	180	778	0.939	13.76
	Male	31149	578.66	66.26	180	940	180	758	0.945	15.60
	Lang. Prof. NA	49604	594.09	56.02	180	940	180	778	0.937	14.05
	Lang. Prof. NEP	2036	466.92	92.40	180	940	180	639	0.861	34.43
	Lang. Prof. LEP	7054	549.85	45.20	180	940	180	691	0.890	14.98
	Lang. Prof. FEP	2388	600.47	34.55	180	940	180	756	0.865	12.69
	Not Mig. or Immig.	60244	585.82	60.79	180	940	180	778	0.942	14.66
	Mig. or Immig.	832	525.53	88.01	180	940	180	686	0.940	21.48

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Table 224. Subgroup Reliability for the CSAP Reading Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
5	No Disability	53834	621.49	58.08	220	955	220	855	0.921	16.33
	Disability	5954	528.36	88.28	220	955	220	781	0.921	24.85
	No IEP	53835	621.50	58.07	220	955	220	855	0.921	16.32
	IEP	5952	528.29	88.28	220	955	220	781	0.921	24.86
	No Accommodation	49736	625.14	56.70	220	955	220	855	0.918	16.25
	Accommodation	10046	548.19	80.48	220	955	220	822	0.921	22.64
	Am. Indian/AK	681	585.73	71.71	220	955	220	775	0.931	18.84
	Asian/Pac. Isl.	2235	627.23	70.41	220	955	220	835	0.939	17.35
	Black	3654	585.85	75.37	220	955	220	779	0.930	19.98
	Hispanic	17784	582.50	67.39	220	955	220	807	0.922	18.82
	White	35435	629.41	60.26	220	955	220	855	0.925	16.54
	Free Lunch Elig.	20077	578.99	70.61	220	955	220	798	0.923	19.57
	Reduced Lunch Elig.	5027	601.91	61.13	220	955	220	841	0.920	17.27
	Not FRL Elig.	34670	632.96	58.33	220	955	220	855	0.922	16.30
	Female	29296	619.98	63.46	220	955	220	855	0.930	16.80
	Male	30494	604.76	70.84	220	955	220	841	0.935	18.03
	Lang. Prof. NA	49124	621.21	63.45	220	955	220	855	0.929	16.95
	Lang. Prof. NEP	1208	471.49	94.02	220	955	220	703	0.868	34.18
	Lang. Prof. LEP	5949	561.04	49.83	220	955	220	752	0.866	18.25
	Lang. Prof. FEP	3507	621.50	46.15	220	955	220	816	0.882	15.84
	Not Mig. or Immig.	58999	613.17	66.83	220	955	220	855	0.933	17.36
	Mig. or Immig.	785	541.03	94.19	220	955	220	742	0.933	24.43
6	No Disability	53170	637.75	58.62	260	970	260	934	0.925	16.06
	Disability	5644	543.44	83.97	260	970	260	845	0.919	23.97
	No IEP	53166	637.75	58.62	260	970	260	934	0.925	16.06
	IEP	5643	543.43	83.97	260	970	260	845	0.919	23.97
	No Accommodation	50134	640.02	57.77	260	970	260	934	0.923	16.01
	Accommodation	8593	562.51	80.89	260	970	260	869	0.927	21.91
	Am. Indian/AK	710	607.35	68.78	260	970	260	790	0.928	18.41
	Asian/Pac. Isl.	2263	645.40	69.47	260	970	260	856	0.939	17.21
	Black	3617	604.91	71.05	260	970	260	847	0.933	18.35
	Hispanic	16938	596.43	68.41	260	970	260	866	0.925	18.71
	White	35288	645.99	59.49	260	970	260	934	0.928	16.02
	Free Lunch Elig.	18983	593.49	69.06	260	970	260	845	0.925	18.90
	Reduced Lunch Elig.	4925	617.09	60.89	260	970	260	791	0.921	17.10
	Not FRL Elig.	34884	649.54	58.52	260	970	260	934	0.925	16.01
	Female	28954	638.00	63.17	260	970	260	895	0.932	16.45
	Male	29859	619.68	70.26	260	970	260	934	0.938	17.43
	Lang. Prof. NA	48611	638.13	62.37	260	970	260	934	0.931	16.39
	Lang. Prof. NEP	928	474.91	96.21	260	970	260	700	0.874	34.12
	Lang. Prof. LEP	5081	564.69	53.39	260	970	260	757	0.864	19.71
	Lang. Prof. FEP	4195	630.96	45.20	260	970	260	845	0.880	15.68
	Not Mig. or Immig.	58038	629.70	66.49	260	970	260	934	0.936	16.89
	Mig. or Immig.	770	553.34	94.08	260	970	260	763	0.941	22.91

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Table 224. Subgroup Reliability for the CSAP Reading Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
7	No Disability	52425	649.20	56.67	300	980	300	980	0.914	16.58
	Disability	5340	560.28	77.59	300	980	300	759	0.917	22.31
	No IEP	52419	649.21	56.66	300	980	300	980	0.914	16.58
	IEP	5338	560.25	77.61	300	980	300	759	0.917	22.31
	No Accommodation	51354	649.47	56.74	300	980	300	980	0.915	16.58
	Accommodation	6340	572.09	78.91	300	980	300	808	0.926	21.42
	Am. Indian/AK	688	622.60	66.62	300	980	300	790	0.928	17.92
	Asian/Pac. Isl.	2237	655.64	68.01	300	980	300	844	0.934	17.49
	Black	3319	616.81	67.04	300	980	300	788	0.926	18.26
	Hispanic	16224	610.16	65.07	300	980	300	808	0.920	18.43
	White	35297	656.85	57.04	300	980	300	980	0.917	16.44
	Free Lunch Elig.	17727	606.88	66.82	300	980	300	844	0.920	18.86
	Reduced Lunch Elig.	4650	630.25	58.15	300	980	300	801	0.914	17.03
	Not FRL Elig.	35365	659.50	55.92	300	980	300	980	0.915	16.34
	Female	28278	650.89	60.02	300	980	300	980	0.922	16.79
	Male	29486	631.48	66.79	300	980	300	844	0.932	17.47
	Lang. Prof. NA	48149	649.43	59.66	300	980	300	980	0.922	16.68
	Lang. Prof. NEP	776	486.74	87.68	300	980	300	687	0.866	32.12
	Lang. Prof. LEP	4193	574.45	51.21	300	980	300	740	0.853	19.62
	Lang. Prof. FEP	4647	639.25	46.37	300	980	300	819	0.873	16.52
	Not Mig. or Immig.	57000	641.98	63.30	300	980	300	980	0.927	17.08
	Mig. or Immig.	754	565.58	89.73	300	980	300	783	0.936	22.71
8	No Disability	52226	659.26	53.64	330	990	330	865	0.913	15.87
	Disability	4903	575.76	69.80	330	990	330	763	0.909	21.11
	No IEP	52223	659.27	53.63	330	990	330	865	0.912	15.87
	IEP	4901	575.66	69.79	330	990	330	763	0.908	21.11
	No Accommodation	51240	659.01	54.23	330	990	330	865	0.914	15.94
	Accommodation	5815	591.12	72.42	330	990	330	854	0.923	20.09
	Am. Indian/AK	712	636.31	60.19	330	990	330	772	0.917	17.29
	Asian/Pac. Isl.	2102	664.57	61.92	330	990	330	827	0.930	16.38
	Black	3424	629.54	61.17	330	990	330	795	0.918	17.47
	Hispanic	15647	622.74	60.57	330	990	330	813	0.915	17.71
	White	35244	666.89	53.57	330	990	330	865	0.912	15.90
	Free Lunch Elig.	16950	620.41	60.90	330	990	330	805	0.914	17.88
	Reduced Lunch Elig.	4547	640.49	55.85	330	990	330	795	0.909	16.84
	Not FRL Elig.	35611	668.68	53.16	330	990	330	865	0.912	15.80
	Female	27991	661.39	56.03	330	990	330	865	0.920	15.90
	Male	29133	643.16	62.22	330	990	330	825	0.927	16.82
	Lang. Prof. NA	48137	659.72	56.25	330	990	330	865	0.918	16.14
	Lang. Prof. NEP	665	517.78	71.55	330	990	330	702	0.835	29.07
	Lang. Prof. LEP	3543	582.95	50.59	330	990	330	732	0.843	20.03
	Lang. Prof. FEP	4782	645.21	42.59	330	990	330	811	0.867	15.56
	Not Mig. or Immig.	56370	653.06	59.13	330	990	330	865	0.923	16.39
	Mig. or Immig.	753	580.05	75.46	330	990	330	770	0.920	21.35

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Table 224. Subgroup Reliability for the CSAP Reading Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
9	No Disability	54072	666.97	48.24	350	995	350	895	0.925	13.22
	Disability	4978	598.25	58.06	350	995	350	770	0.921	16.34
	No IEP	54058	666.97	48.25	350	995	350	895	0.925	13.22
	IEP	4977	598.23	58.03	350	995	350	770	0.921	16.34
	No Accommodation	55644	664.85	49.82	350	995	350	895	0.929	13.31
	Accommodation	3311	599.27	61.23	350	995	350	793	0.927	16.49
	Am. Indian/AK	693	645.53	51.38	350	995	350	771	0.930	13.63
	Asian/Pac. Isl.	2242	670.89	57.58	350	995	350	819	0.944	13.64
	Black	3606	638.85	53.89	350	995	350	809	0.930	14.23
	Hispanic	15885	635.09	51.96	350	995	350	834	0.926	14.11
	White	36626	674.38	47.37	350	995	350	895	0.922	13.19
	Free Lunch Elig.	16015	632.63	53.11	350	995	350	834	0.927	14.36
	Reduced Lunch Elig.	4313	651.67	48.26	350	995	350	824	0.922	13.52
	Not FRL Elig.	38698	674.06	47.95	350	995	350	895	0.925	13.12
	Female	28712	670.18	50.21	350	995	350	895	0.931	13.24
	Male	30341	652.66	53.62	350	995	350	861	0.936	13.55
	Lang. Prof. NA	50285	667.66	49.84	350	995	350	895	0.928	13.36
	Lang. Prof. NEP	919	553.81	58.38	350	995	350	742	0.848	22.75
	Lang. Prof. LEP	3028	601.52	39.75	350	995	350	751	0.861	14.82
	Lang. Prof. FEP	4813	651.47	39.25	350	995	350	834	0.890	13.01
	Not Mig. or Immig.	58223	662.10	52.01	350	995	350	895	0.933	13.46
	Mig. or Immig.	811	594.80	60.95	350	995	350	787	0.930	16.16
10	No Disability	50992	686.38	53.72	370	999	370	902	0.922	15.04
	Disability	4234	611.07	68.17	370	999	370	822	0.915	19.82
	No IEP	50990	686.38	53.72	370	999	370	902	0.922	15.04
	IEP	4231	611.04	68.19	370	999	370	822	0.916	19.82
	No Accommodation	52119	684.29	55.64	370	999	370	902	0.925	15.26
	Accommodation	3001	616.45	69.09	370	999	370	822	0.924	19.00
	Am. Indian/AK	679	665.45	58.41	370	999	370	817	0.923	16.16
	Asian/Pac. Isl.	2028	689.69	63.55	370	999	370	871	0.940	15.58
	Black	3322	656.63	59.54	370	999	370	812	0.924	16.46
	Hispanic	14188	653.79	57.03	370	999	370	834	0.917	16.47
	White	35018	693.51	54.06	370	999	370	902	0.922	15.09
	Free Lunch Elig.	13525	649.81	58.67	370	999	370	841	0.918	16.76
	Reduced Lunch Elig.	3610	670.11	54.07	370	999	370	841	0.915	15.75
	Not FRL Elig.	38082	692.54	54.53	370	999	370	902	0.923	15.10
	Female	27114	690.54	53.69	370	999	370	902	0.925	14.74
	Male	28120	671.02	61.27	370	999	370	861	0.933	15.88
	Lang. Prof. NA	47506	686.84	55.87	370	999	370	902	0.925	15.29
	Lang. Prof. NEP	772	562.30	66.54	370	999	370	744	0.823	28.02
	Lang. Prof. LEP	2329	618.06	49.37	370	999	370	762	0.847	19.33
	Lang. Prof. FEP	4619	667.77	44.34	370	999	370	828	0.884	15.11
	Not Mig. or Immig.	54468	681.55	57.74	370	999	370	902	0.929	15.41
	Mig. or Immig.	752	612.36	71.58	370	999	370	780	0.926	19.44

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Table 225. Subgroup Reliability for the CSAP Writing Tests

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
3	No Disability	55392	470.32	47.89	150	680	150	680	0.897	15.37
	Disability	5378	413.85	53.30	150	680	150	617	0.903	16.61
	No IEP	55393	470.32	47.89	150	680	150	680	0.897	15.37
	IEP	5375	413.82	53.29	150	680	150	617	0.903	16.61
	No Accommodation	49913	474.97	46.33	150	680	150	680	0.889	15.43
	Accommodation	10803	420.73	47.72	150	680	150	638	0.893	15.62
	Am. Indian/AK	715	449.48	47.96	150	680	150	680	0.900	15.17
	Asian/Pac. Isl.	2438	477.55	54.98	150	680	150	680	0.923	15.29
	Black	3616	445.66	52.41	150	680	150	680	0.917	15.09
	Hispanic	17614	444.45	47.95	150	680	150	680	0.905	14.77
	White	36387	476.87	48.06	150	680	150	680	0.895	15.60
	Free Lunch Elig.	20663	442.47	47.86	150	680	150	680	0.905	14.79
	Reduced Lunch Elig.	4963	458.55	46.50	150	680	150	618	0.897	14.94
	Not FRL Elig.	35125	479.73	48.18	150	680	150	680	0.895	15.62
	Female	29946	473.61	49.46	150	680	150	680	0.902	15.50
	Male	30824	457.27	51.14	150	680	150	680	0.912	15.16
	Lang. Prof. NA	49797	471.17	49.40	150	680	150	680	0.903	15.42
	Lang. Prof. NEP	2268	389.82	52.75	150	680	150	556	0.881	18.16
	Lang. Prof. LEP	7326	444.52	35.98	150	680	150	617	0.852	13.84
	Lang. Prof. FEP	1379	488.95	38.63	150	680	295	680	0.831	15.89
	Not Mig. or Immig.	59816	465.88	50.60	150	680	150	680	0.908	15.32
	Mig. or Immig.	950	430.10	61.52	150	680	150	617	0.929	16.40
4	No Disability	55369	490.97	49.23	190	730	190	730	0.898	15.73
	Disability	5721	431.93	47.88	190	730	190	660	0.885	16.20
	No IEP	55370	490.97	49.23	190	730	190	730	0.898	15.73
	IEP	5719	431.90	47.87	190	730	190	660	0.885	16.20
	No Accommodation	48799	495.48	48.05	190	730	190	730	0.892	15.78
	Accommodation	12263	445.51	47.92	190	730	190	730	0.890	15.90
	Am. Indian/AK	688	466.41	50.25	190	730	308	657	0.907	15.31
	Asian/Pac. Isl.	2355	498.81	54.25	190	730	293	730	0.914	15.90
	Black	3708	467.52	48.60	190	730	208	712	0.902	15.19
	Hispanic	18483	461.71	47.25	190	730	190	730	0.895	15.30
	White	35861	499.01	49.49	190	730	190	730	0.897	15.88
	Free Lunch Elig.	21031	459.91	46.80	190	730	190	698	0.894	15.23
	Reduced Lunch Elig.	5232	477.22	45.76	190	730	263	712	0.887	15.37
	Not FRL Elig.	34806	502.11	49.30	190	730	190	730	0.896	15.90
	Female	29936	494.25	51.97	190	730	190	730	0.905	16.02
	Male	31159	476.98	50.67	190	730	190	730	0.910	15.20
	Lang. Prof. NA	49609	492.62	50.29	190	730	190	730	0.902	15.74
	Lang. Prof. NEP	2043	402.33	41.64	190	730	190	534	0.818	17.77
	Lang. Prof. LEP	7055	454.01	34.89	190	730	294	645	0.830	14.37
	Lang. Prof. FEP	2384	500.37	39.13	190	730	332	730	0.823	16.47
	Not Mig. or Immig.	60251	486.07	51.68	190	730	190	730	0.908	15.67
	Mig. or Immig.	834	439.83	56.59	190	730	190	617	0.916	16.39

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Table 225. Subgroup Reliability for the CSAP Writing Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
5	No Disability	53780	513.45	52.03	220	780	220	780	0.902	16.32
	Disability	5944	448.26	49.94	220	780	220	670	0.888	16.74
	No IEP	53781	513.45	52.03	220	780	220	780	0.902	16.31
	IEP	5942	448.21	49.90	220	780	220	670	0.887	16.74
	No Accommodation	48801	517.31	50.64	220	780	222	780	0.896	16.31
	Accommodation	10910	460.69	51.92	220	780	220	724	0.895	16.83
	Am. Indian/AK	680	481.65	53.66	220	780	322	680	0.911	15.97
	Asian/Pac. Isl.	2234	524.07	62.43	220	780	220	780	0.928	16.80
	Black	3650	488.20	53.61	220	780	220	678	0.913	15.81
	Hispanic	17767	484.07	51.01	220	780	220	780	0.902	15.95
	White	35394	519.79	52.70	220	780	220	780	0.903	16.37
	Free Lunch Elig.	20064	480.40	50.63	220	780	220	733	0.901	15.90
	Reduced Lunch Elig.	5027	497.89	49.22	220	780	226	733	0.898	15.75
	Not FRL Elig.	34619	523.68	52.46	220	780	220	780	0.902	16.46
	Female	29267	516.64	54.12	220	780	220	780	0.907	16.49
	Male	30459	497.65	54.98	220	780	220	780	0.916	15.93
	Lang. Prof. NA	49070	513.43	53.75	220	780	220	780	0.909	16.25
	Lang. Prof. NEP	1209	408.74	53.81	220	780	220	652	0.854	20.57
	Lang. Prof. LEP	5941	467.86	37.08	220	780	316	659	0.841	14.80
	Lang. Prof. FEP	3504	516.55	43.47	220	780	324	780	0.857	16.45
	Not Mig. or Immig.	58935	507.63	54.95	220	780	220	780	0.913	16.23
	Mig. or Immig.	785	456.52	63.88	220	780	220	724	0.918	18.32
6	No Disability	53202	530.69	57.99	230	840	230	840	0.901	18.27
	Disability	5652	455.88	53.21	230	840	230	724	0.883	18.20
	No IEP	53198	530.69	57.99	230	840	230	840	0.901	18.27
	IEP	5651	455.85	53.22	230	840	230	724	0.883	18.21
	No Accommodation	50032	532.93	57.23	230	840	230	840	0.899	18.23
	Accommodation	8730	469.35	58.00	230	840	230	840	0.897	18.61
	Am. Indian/AK	712	499.83	60.24	230	840	266	734	0.914	17.65
	Asian/Pac. Isl.	2263	543.09	67.02	230	840	230	840	0.920	18.93
	Black	3619	501.63	58.83	230	840	239	811	0.910	17.69
	Hispanic	16970	496.58	54.88	230	840	230	801	0.900	17.40
	White	35292	537.91	59.40	230	840	230	840	0.905	18.28
	Free Lunch Elig.	19023	492.71	55.01	230	840	230	739	0.899	17.45
	Reduced Lunch Elig.	4923	511.68	53.62	230	840	234	840	0.896	17.32
	Not FRL Elig.	34886	541.99	58.90	230	840	230	840	0.902	18.44
	Female	28974	534.43	60.13	230	840	230	840	0.907	18.36
	Male	29879	512.90	61.21	230	840	230	840	0.916	17.73
	Lang. Prof. NA	48628	530.65	60.07	230	840	230	840	0.909	18.12
	Lang. Prof. NEP	927	411.35	62.59	230	840	230	591	0.870	22.53
	Lang. Prof. LEP	5103	472.45	39.42	230	840	294	657	0.827	16.40
	Lang. Prof. FEP	4197	527.53	46.23	230	840	346	783	0.850	17.88
	Not Mig. or Immig.	58073	524.34	61.00	230	840	230	840	0.912	18.07
	Mig. or Immig.	775	461.17	75.07	230	840	230	696	0.925	20.53

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Table 225. Subgroup Reliability for the CSAP Writing Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
7	No Disability	52438	560.23	66.17	240	890	240	890	0.902	20.77
	Disability	5334	473.07	60.69	240	890	240	751	0.874	21.56
	No IEP	52432	560.24	66.17	240	890	240	890	0.901	20.77
	IEP	5332	473.04	60.70	240	890	240	751	0.874	21.56
	No Accommodation	50734	561.28	65.60	240	890	240	890	0.900	20.71
	Accommodation	6961	485.83	68.42	240	890	240	846	0.896	22.04
	Am. Indian/AK	687	529.67	70.86	240	890	240	788	0.909	21.38
	Asian/Pac. Isl.	2236	575.16	77.10	240	890	240	853	0.925	21.16
	Black	3320	526.36	67.42	240	890	240	836	0.906	20.64
	Hispanic	16232	518.06	63.60	240	890	240	850	0.897	20.37
	White	35297	569.29	66.39	240	890	240	890	0.903	20.66
	Free Lunch Elig.	17726	514.48	63.77	240	890	240	850	0.897	20.46
	Reduced Lunch Elig.	4646	538.68	60.72	240	890	263	783	0.892	19.96
	Not FRL Elig.	35377	572.88	66.31	240	890	240	890	0.902	20.77
	Female	28281	566.42	68.47	240	890	240	890	0.907	20.89
	Male	29490	538.54	69.44	240	890	240	872	0.914	20.34
	Lang. Prof. NA	48151	560.98	67.80	240	890	240	890	0.907	20.63
	Lang. Prof. NEP	775	408.85	67.07	240	890	240	607	0.823	28.25
	Lang. Prof. LEP	4197	482.71	44.02	240	890	309	692	0.804	19.49
	Lang. Prof. FEP	4649	547.69	53.02	240	890	240	842	0.855	20.21
	Not Mig. or Immig.	57002	553.19	69.59	240	890	240	890	0.912	20.64
	Mig. or Immig.	759	477.56	86.09	240	890	240	846	0.923	23.86
8	No Disability	52195	572.67	67.35	250	910	250	910	0.904	20.92
	Disability	4907	481.84	58.98	250	910	250	780	0.866	21.57
	No IEP	52192	572.68	67.34	250	910	250	910	0.903	20.92
	IEP	4905	481.76	58.93	250	910	250	780	0.866	21.57
	No Accommodation	50982	573.18	66.72	250	910	250	910	0.902	20.84
	Accommodation	6042	494.89	70.87	250	910	250	910	0.897	22.73
	Am. Indian/AK	714	542.23	67.34	250	910	250	836	0.907	20.50
	Asian/Pac. Isl.	2094	587.90	80.43	250	910	250	910	0.928	21.55
	Black	3424	538.17	65.97	250	910	250	910	0.902	20.63
	Hispanic	15668	530.74	64.68	250	910	250	910	0.897	20.80
	White	35202	581.74	67.71	250	910	250	910	0.906	20.81
	Free Lunch Elig.	16977	526.78	63.89	250	910	250	834	0.895	20.67
	Reduced Lunch Elig.	4545	549.86	61.96	250	910	271	836	0.893	20.24
	Not FRL Elig.	35559	584.99	67.86	250	910	250	910	0.905	20.94
	Female	27996	580.38	69.72	250	910	250	910	0.909	21.00
	Male	29101	549.95	69.72	250	910	250	910	0.913	20.53
	Lang. Prof. NA	48094	573.55	68.85	250	910	250	910	0.909	20.73
	Lang. Prof. NEP	670	416.42	68.42	250	910	250	660	0.822	28.90
	Lang. Prof. LEP	3553	489.04	44.69	250	910	330	677	0.796	20.16
	Lang. Prof. FEP	4783	554.66	52.64	250	910	342	910	0.847	20.61
	Not Mig. or Immig.	56339	566.00	70.46	250	910	250	910	0.913	20.81
	Mig. or Immig.	757	480.93	86.20	250	910	250	910	0.914	25.33

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Table 225. Subgroup Reliability for the CSAP Writing Tests (Continued)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
9	No Disability	54102	569.76	75.20	260	930	260	930	0.905	23.21
	Disability	4990	471.00	64.45	260	930	260	745	0.861	24.07
	No IEP	54087	569.77	75.19	260	930	260	930	0.905	23.21
	IEP	4989	470.94	64.37	260	930	260	745	0.860	24.07
	No Accommodation	55159	567.60	75.97	260	930	260	930	0.907	23.17
	Accommodation	3768	471.06	71.41	260	930	260	762	0.875	25.20
	Am. Indian/AK	692	532.03	72.20	260	930	292	893	0.899	23.00
	Asian/Pac. Isl.	2247	577.56	90.39	260	930	260	930	0.927	24.36
	Black	3608	527.52	72.60	260	930	260	848	0.900	23.00
	Hispanic	15900	523.15	69.32	260	930	260	930	0.892	22.83
	White	36647	580.91	75.94	260	930	260	930	0.907	23.20
	Free Lunch Elig.	16035	518.93	68.59	260	930	260	868	0.890	22.73
	Reduced Lunch Elig.	4321	545.32	68.48	260	930	260	881	0.893	22.42
	Not FRL Elig.	38711	580.84	77.19	260	930	260	930	0.909	23.29
	Female	28734	578.89	77.12	260	930	260	930	0.908	23.34
	Male	30361	544.88	77.68	260	930	260	930	0.914	22.84
	Lang. Prof. NA	50324	570.58	76.97	260	930	260	930	0.910	23.10
	Lang. Prof. NEP	925	410.13	68.95	260	930	260	669	0.790	31.59
	Lang. Prof. LEP	3025	482.23	47.38	260	930	260	681	0.776	22.42
	Lang. Prof. FEP	4813	544.45	57.80	260	930	260	930	0.852	22.25
	Not Mig. or Immig.	58263	562.78	78.30	260	930	260	930	0.913	23.16
	Mig. or Immig.	812	464.79	87.66	260	930	260	804	0.898	27.94
10	No Disability	50957	583.27	84.22	270	950	270	950	0.920	23.84
	Disability	4257	476.15	69.81	270	950	270	784	0.899	22.23
	No IEP	50955	583.27	84.22	270	950	270	950	0.920	23.84
	IEP	4254	476.11	69.84	270	950	270	784	0.899	22.24
	No Accommodation	51882	580.96	85.10	270	950	270	950	0.922	23.70
	Accommodation	3165	477.72	76.61	270	950	270	853	0.906	23.46
	Am. Indian/AK	682	546.42	79.85	270	950	270	865	0.922	22.30
	Asian/Pac. Isl.	2021	593.73	100.40	270	950	270	950	0.935	25.56
	Black	3314	540.13	79.96	270	950	270	926	0.920	22.57
	Hispanic	14184	531.31	74.85	270	950	270	950	0.911	22.32
	White	35022	595.49	85.32	270	950	270	950	0.925	23.42
	Free Lunch Elig.	13531	525.34	75.12	270	950	270	899	0.913	22.14
	Reduced Lunch Elig.	3618	556.62	76.44	270	950	270	950	0.915	22.32
	Not FRL Elig.	38056	594.42	85.91	270	950	270	950	0.924	23.68
	Female	27098	592.77	86.25	270	950	270	950	0.921	24.22
	Male	28124	557.90	86.20	270	950	270	950	0.930	22.73
	Lang. Prof. NA	47502	584.79	85.95	270	950	270	950	0.926	23.43
	Lang. Prof. NEP	773	417.84	69.07	270	950	270	758	0.818	29.43
	Lang. Prof. LEP	2328	482.85	49.67	270	950	270	717	0.829	20.54
	Lang. Prof. FEP	4611	547.12	65.81	270	950	270	950	0.882	22.62
	Not Mig. or Immig.	54459	576.35	87.22	270	950	270	950	0.928	23.48
	Mig. or Immig.	749	478.04	88.28	270	950	270	797	0.915	25.73

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Table 226. Subgroup Reliability for the CSAP Science Tests

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
5	No Disability	54065	505.22	59.37	300	900	300	900	0.915	17.27
	Disability	5977	439.63	66.32	300	900	300	654	0.913	19.53
	No IEP	54073	505.22	59.37	300	900	300	900	0.915	17.27
	IEP	5969	439.53	66.31	300	900	300	654	0.913	19.54
	No Accommodation	51337	508.95	57.65	300	900	300	900	0.911	17.16
	Accommodation	8669	437.93	60.63	300	900	300	660	0.897	19.49
	Am. Indian/AK	686	474.31	61.53	300	900	300	692	0.912	18.28
	Asian/Pac. Isl.	2246	510.40	65.69	300	900	300	704	0.929	17.49
	Black	3647	464.11	63.67	300	900	300	735	0.915	18.57
	Hispanic	17814	464.94	58.64	300	900	300	686	0.904	18.18
	White	35650	518.83	56.02	300	900	300	900	0.907	17.07
	Free Lunch Elig.	20113	463.34	59.25	300	900	300	718	0.905	18.30
	Reduced Lunch Elig.	5048	487.70	56.68	300	900	300	681	0.904	17.55
	Not FRL Elig.	34867	520.68	56.30	300	900	300	900	0.908	17.03
	Female	29432	496.61	61.31	300	900	300	764	0.919	17.43
	Male	30609	500.70	64.95	300	900	300	900	0.926	17.62
	Lang. Prof. NA	49360	508.27	59.85	300	900	300	900	0.916	17.31
	Lang. Prof. NEP	1224	384.51	56.31	300	900	300	593	0.859	21.12
	Lang. Prof. LEP	5957	442.86	45.41	300	900	300	600	0.836	18.39
	Lang. Prof. FEP	3502	498.57	47.74	300	900	300	704	0.876	16.84
	Not Mig. or Immig.	59247	499.51	62.72	300	900	300	900	0.922	17.52
	Mig. or Immig.	791	437.77	71.00	300	900	300	638	0.922	19.81
8	No Disability	52551	504.77	56.68	300	900	300	713	0.921	15.89
	Disability	4926	431.27	64.00	300	900	300	635	0.890	21.18
	No IEP	52547	504.77	56.68	300	900	300	713	0.921	15.89
	IEP	4925	431.24	63.99	300	900	300	635	0.890	21.18
	No Accommodation	52465	504.93	56.40	300	900	300	713	0.921	15.85
	Accommodation	4936	429.81	64.84	300	900	300	678	0.893	21.19
	Am. Indian/AK	716	479.26	62.81	300	900	300	642	0.917	18.12
	Asian/Pac. Isl.	2114	513.95	62.17	300	900	300	681	0.931	16.29
	Black	3433	466.73	60.28	300	900	300	655	0.902	18.86
	Hispanic	15676	465.30	59.75	300	900	300	649	0.902	18.73
	White	35537	515.63	53.57	300	900	300	713	0.917	15.40
	Free Lunch Elig.	17017	463.32	60.20	300	900	300	657	0.901	18.94
	Reduced Lunch Elig.	4553	487.16	55.22	300	900	300	640	0.904	17.12
	Not FRL Elig.	35884	516.57	53.91	300	900	300	713	0.918	15.41
	Female	28166	497.54	57.98	300	900	300	702	0.920	16.35
	Male	29307	499.36	63.61	300	900	300	713	0.930	16.78
	Lang. Prof. NA	48488	506.48	57.37	300	900	300	713	0.922	16.02
	Lang. Prof. NEP	665	375.20	58.40	300	900	300	570	0.800	26.14
	Lang. Prof. LEP	3549	426.51	49.40	300	900	300	617	0.797	22.28
	Lang. Prof. FEP	4773	487.81	47.28	300	900	300	706	0.889	15.73
	Not Mig. or Immig.	56711	499.34	60.34	300	900	300	713	0.925	16.51
	Mig. or Immig.	760	433.96	69.23	300	900	300	619	0.904	21.45

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Table 226. Subgroup Reliability for the CSAP Science Tests (Concluded)

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
10	No Disability	51269	500.80	59.75	300	900	300	714	0.915	17.39
	Disability	4282	422.59	70.32	300	900	300	631	0.900	22.28
	No IEP	51267	500.80	59.75	300	900	300	714	0.915	17.39
	IEP	4277	422.57	70.33	300	900	300	631	0.900	22.27
	No Accommodation	52383	499.22	60.78	300	900	300	714	0.917	17.55
	Accommodation	3043	417.51	70.79	300	900	300	629	0.902	22.21
	Am. Indian/AK	687	474.62	64.83	300	900	300	609	0.912	19.28
	Asian/Pac. Isl.	2035	504.11	68.69	300	900	300	661	0.930	18.20
	Black	3343	462.37	64.57	300	900	300	625	0.900	20.39
	Hispanic	14226	458.54	62.62	300	900	300	714	0.897	20.08
	White	35265	512.31	56.54	300	900	300	714	0.910	16.97
	Free Lunch Elig.	13588	456.19	64.66	300	900	300	658	0.900	20.40
	Reduced Lunch Elig.	3618	482.77	58.28	300	900	300	638	0.899	18.48
	Not FRL Elig.	38336	509.59	58.26	300	900	300	714	0.914	17.12
	Female	27242	493.95	60.23	300	900	300	661	0.912	17.85
	Male	28312	495.56	67.64	300	900	300	714	0.928	18.11
	Lang. Prof. NA	47814	502.73	60.25	300	900	300	714	0.916	17.48
	Lang. Prof. NEP	782	362.68	54.84	300	900	300	577	0.777	25.91
	Lang. Prof. LEP	2332	416.54	53.97	300	900	300	561	0.815	23.20
	Lang. Prof. FEP	4619	474.27	52.58	300	900	300	654	0.881	18.12
	Not Mig. or Immig.	54790	495.83	63.34	300	900	300	714	0.920	17.91
	Mig. or Immig.	754	418.20	72.87	300	900	300	609	0.904	22.54

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Table 227. Subgroup Reliability for the CSAP Spanish Reading Tests

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
3	No Disability	1120	524.18	47.78	300	740	300	708	0.882	16.44
	Disability	90	458.64	71.22	300	740	300	573	0.876	25.07
	No IEP	1120	524.18	47.78	300	740	300	708	0.882	16.44
	IEP	90	458.64	71.22	300	740	300	573	0.876	25.07
	No Accommodation	922	522.12	49.83	300	740	300	664	0.884	17.00
	Accommodation	288	510.29	60.37	300	740	300	708	0.906	18.49
	Am. Indian/AK	1	541.00	.	300	740	541	541	.	.
	Asian/Pac. Isl.	.	.	.	300	740	.	.	.	.
	Black	3	447.33	134.30	300	740	300	563	.	.
	Hispanic	1186	519.27	52.64	300	740	300	708	0.891	17.39
	White	20	531.00	36.16	300	740	477	623	.	.
	Free Lunch Elig.	1021	519.34	52.45	300	740	300	708	0.891	17.35
	Reduced Lunch Elig.	83	537.46	40.34	300	740	447	643	0.848	15.74
	Not FRL Elig.	106	504.74	59.70	300	740	300	622	0.895	19.38
	Female	574	527.35	49.18	300	740	300	708	0.881	16.93
	Male	636	512.04	54.80	300	740	300	643	0.894	17.86
	Lang. Prof. NA	11	516.09	52.60	300	740	414	589	0.924	14.46
	Lang. Prof. NEP	695	502.66	52.94	300	740	300	708	0.874	18.78
	Lang. Prof. LEP	499	541.73	42.70	300	740	300	636	0.860	15.97
	Lang. Prof. FEP	5	602.60	33.10	300	740	568	643	.	.
	Not Mig. or Immig.	1093	518.86	51.81	300	740	300	708	0.890	17.21
	Mig. or Immig.	117	523.44	60.92	300	740	300	664	0.900	19.28
4	No Disability	112	532.28	41.24	300	790	369	635	0.916	11.92
	Disability	1	525.00	.	300	790	525	525	.	.
	No IEP	112	532.28	41.24	300	790	369	635	0.916	11.92
	IEP	1	525.00	.	300	790	525	525	.	.
	No Accommodation	71	534.14	42.07	300	790	.	635	0.913	12.42
	Accommodation	42	528.95	39.56	300	790	405	612	0.920	11.20
	Am. Indian/AK	1	551.00	.	300	790	551	551	.	.
	Asian/Pac. Isl.	.	.	.	300	790	.	.	.	.
	Black	.	.	.	300	790	.	.	.	.
	Hispanic	107	531.14	41.69	300	790	369	635	0.917	12.00
	White	5	551.40	23.88	300	790	525	585	.	.
	Free Lunch Elig.	82	532.78	43.29	300	790	369	635	0.925	11.89
	Reduced Lunch Elig.	7	537.00	31.04	300	790	490	568	.	.
	Not FRL Elig.	24	528.88	36.57	300	790	458	585	0.885	12.41
	Female	56	530.45	42.93	300	790	369	612	0.916	12.42
	Male	57	533.95	39.43	300	790	432	635	0.917	11.33
	Lang. Prof. NA	1	635.00	.	300	790	635	635	.	.
	Lang. Prof. NEP	99	530.55	41.67	300	790	369	612	0.917	12.00
	Lang. Prof. LEP	13	537.00	25.03	300	790	490	580	.	.
	Lang. Prof. FEP				300	790				
	Not Mig. or Immig.	57	530.67	39.51	300	790	405	635	0.914	11.56
	Mig. or Immig.	56	533.79	42.87	300	790	369	612	0.919	12.24

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Table 228. Subgroup Reliability for the CSAP Spanish Writing Tests

Grade	Subgroup	N	Mean	STD	Loss	Hoss	Min	Max	ALPHA	SEM
3	No Disability	1122	513.35	70.40	250	750	250	750	0.907	21.49
	Disability	89	435.67	83.61	250	750	250	662	0.923	23.15
	No IEP	1122	513.35	70.40	250	750	250	750	0.907	21.49
	IEP	89	435.67	83.61	250	750	250	662	0.923	23.15
	No Accommodation	907	513.99	71.47	250	750	250	750	0.910	21.48
	Accommodation	304	488.70	79.11	250	750	250	708	0.926	21.52
	Am. Indian/AK	1	497.00	.	250	750	497	497	.	.
	Asian/Pac. Isl.				250	750				
	Black	2	488.50	17.68	250	750	476	501	.	.
	Hispanic	1188	507.63	74.53	250	750	250	750	0.918	21.39
	White	20	510.40	62.96	250	750	418	630	.	.
	Free Lunch Elig.	1016	509.76	73.30	250	750	250	750	0.915	21.39
	Reduced Lunch El	86	525.67	65.28	250	750	339	675	0.899	20.72
	Not FRL Elig.	109	473.63	80.17	250	750	250	643	0.926	21.87
	Female	579	523.48	71.12	250	750	250	750	0.909	21.44
	Male	632	493.13	74.12	250	750	250	663	0.917	21.39
	Lang. Prof. NA	10	490.20	84.43	250	750	401	697	.	.
	Lang. Prof. NEP	700	481.75	69.89	250	750	250	708	0.905	21.53
	Lang. Prof. LEP	496	543.50	63.87	250	750	250	750	0.891	21.06
	Lang. Prof. FEP	5	610.00	46.33	250	750	559	676	.	.
	Not Mig. or Immig.	1096	507.82	74.11	250	750	250	750	0.916	21.42
	Mig. or Immig.	115	505.91	75.81	250	750	261	676	0.921	21.29
4	No Disability	112	514.80	38.02	300	790	351	611	0.860	14.22
	Disability	1	506.00	.	300	790	506	506	.	.
	No IEP	112	514.80	38.02	300	790	351	611	0.860	14.22
	IEP	1	506.00	.	300	790	506	506	.	.
	No Accommodation	68	514.93	36.26	300	790	408	585	0.849	14.10
	Accommodation	45	514.42	40.57	300	790	351	611	0.875	14.36
	Am. Indian/AK	1	486.00	.	300	790	486	486	.	.
	Asian/Pac. Isl.				300	790				
	Black				300	790				
	Hispanic	107	514.19	38.36	300	790	351	611	0.860	14.33
	White	5	532.00	23.58	300	790	506	563	.	.
	Free Lunch Elig.	82	516.56	39.14	300	790	351	611	0.871	14.08
	Reduced Lunch El	7	512.57	22.47	300	790	474	547	.	.
	Not FRL Elig.	24	509.08	37.49	300	790	408	563	.	.
	Female	56	517.43	41.59	300	790	351	611	0.879	14.48
	Male	57	512.07	33.96	300	790	430	585	0.839	13.61
	Lang. Prof. NA	1	585.00	.	300	790	585	585	.	.
	Lang. Prof. NEP	99	512.17	38.79	300	790	351	611	0.865	14.25
	Lang. Prof. LEP	13	528.77	20.31	300	790	501	570	.	.
	Lang. Prof. FEP				300	790				
	Not Mig. or Immig.	57	515.91	40.50	300	790	351	593	0.866	14.80
	Mig. or Immig.	56	513.52	35.30	300	790	415	611	.	.

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Table 229. Scale Scores by Accommodation and Disability Classification

Content	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	Std	N	Mean	Std
READING	3	No Disability	48704	571.12	67.47	6811	495.42	87.63
		Disability	1905	498.86	110.35	3463	432.50	114.24
		No IEP	48702	571.12	67.48	6810	495.44	87.63
		IEP	1904	498.81	110.24	3463	432.50	114.24
	4	No Disability	47781	599.18	46.74	7596	552.64	60.81
		Disability	1708	541.47	81.99	3996	495.46	93.98
		No IEP	47782	599.18	46.74	7596	552.66	60.78
		IEP	1706	541.42	82.00	3996	495.42	94.00
	5	No Disability	47937	627.58	53.92	5897	571.98	66.39
		Disability	1810	560.49	83.89	4144	514.33	86.48
		No IEP	47940	627.58	53.92	5895	572.00	66.36
		IEP	1806	560.37	83.90	4146	514.32	86.49
	6	No Disability	48379	642.77	54.85	4791	587.08	70.22
		Disability	1842	568.02	80.95	3802	531.54	82.82
		No IEP	48375	642.77	54.85	4791	587.07	70.22
		IEP	1841	567.96	80.96	3802	531.55	82.82
	7	No Disability	49333	652.46	53.89	3092	597.23	72.44
		Disability	2092	579.12	74.11	3248	548.15	77.37
		No IEP	49326	652.47	53.88	3093	597.24	72.43
		IEP	2091	579.06	74.15	3247	548.13	77.38
	8	No Disability	49241	661.91	51.58	2985	615.43	66.53
		Disability	2074	589.74	67.80	2829	565.51	69.48
		No IEP	49239	661.93	51.56	2984	615.45	66.54
		IEP	2070	589.58	67.79	2831	565.48	69.48
	9	No Disability	52901	668.12	47.27	1171	614.69	61.04
		Disability	2839	603.85	56.17	2139	590.83	59.69
		No IEP	52886	668.13	47.28	1172	614.78	61.09
		IEP	2840	603.83	56.14	2137	590.78	59.65
	10	No Disability	49916	687.58	52.77	1076	630.80	66.33
		Disability	2309	613.28	67.13	1925	608.43	69.33
		No IEP	49912	687.57	52.77	1078	630.87	66.29
		IEP	2308	613.27	67.15	1923	608.36	69.33

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Table 229. Scale Scores by Accommodation and Disability Classification (Continued)

Content	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	Std	N	Mean	Std
WRITING	3	No Disability	48379	476.03	45.70	7013	430.89	43.90
		Disability	1588	442.28	52.80	3790	401.93	48.81
		No IEP	48379	476.04	45.70	7014	430.89	43.89
		IEP	1586	442.26	52.81	3789	401.92	48.81
	4	No Disability	47481	496.56	47.61	7888	457.33	45.29
		Disability	1347	457.05	48.03	4374	424.19	45.10
		No IEP	47482	496.56	47.60	7888	457.33	45.29
		IEP	1345	456.97	48.05	4374	424.19	45.09
	5	No Disability	47344	518.72	49.91	6436	474.66	50.90
		Disability	1476	471.54	52.64	4468	440.56	46.52
		No IEP	47347	518.72	49.91	6434	474.66	50.91
		IEP	1471	471.45	52.62	4471	440.57	46.51
	6	No Disability	48520	534.88	56.16	4682	487.25	58.83
		Disability	1604	474.16	57.64	4048	448.64	49.52
		No IEP	48516	534.88	56.16	4682	487.24	58.83
		IEP	1603	474.04	57.71	4048	448.65	49.53
	7	No Disability	49333	652.46	53.89	3092	597.23	72.44
		Disability	2092	579.12	74.11	3248	548.15	77.37
		No IEP	49104	563.75	64.28	3328	508.43	71.67
		IEP	1699	489.97	62.78	3633	465.13	58.04
	8	No Disability	49246	575.90	65.36	2949	518.69	76.53
		Disability	1815	498.25	59.76	3092	472.21	56.34
		No IEP	49243	575.92	65.35	2949	518.69	76.53
		IEP	1812	498.07	59.70	3093	472.20	56.33
	9	No Disability	52787	571.84	73.77	1315	486.09	83.88
		Disability	2538	478.70	65.57	2452	463.02	62.29
		No IEP	52771	571.86	73.76	1316	486.24	84.02
		IEP	2539	478.65	65.54	2450	462.94	62.15
	10	No Disability	49751	585.52	82.89	1206	490.54	86.56
		Disability	2298	481.54	70.38	1959	469.83	68.62
		No IEP	49747	585.52	82.89	1208	490.66	86.54
		IEP	2297	481.53	70.45	1957	469.74	68.59

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Table 229. Scale Scores by Accommodation and Disability Classification (Continued)

Content	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	Std	N	Mean	Std
MATHEMATICS	3	No Disability	49329	486.10	85.15	7232	401.68	75.60
		Disability	1671	439.22	95.21	3812	363.71	84.00
		No IEP	49333	486.09	85.15	7232	401.68	75.60
		IEP	1666	439.22	95.27	3812	363.71	84.00
	4	No Disability	49102	508.98	70.53	6408	441.02	69.53
		Disability	1521	461.32	80.22	4224	395.57	77.97
		No IEP	49102	508.98	70.54	6408	441.06	69.57
		IEP	1517	461.21	80.22	4224	395.52	77.89
	5	No Disability	48540	534.41	64.22	5346	473.18	64.60
		Disability	1621	478.89	74.21	4355	429.37	69.04
		No IEP	48546	534.41	64.22	5345	473.18	64.61
		IEP	1611	478.71	74.24	4357	429.38	69.03
	6	No Disability	49497	550.57	65.88	3747	487.71	72.28
		Disability	1877	479.71	81.58	3780	437.13	77.86
		No IEP	49495	550.57	65.88	3748	487.70	72.27
		IEP	1875	479.65	81.64	3779	437.13	77.87
	7	No Disability	49452	563.66	67.00	3031	509.36	75.91
		Disability	1827	488.18	78.61	3524	452.34	76.75
		No IEP	49444	563.66	67.01	3030	509.41	75.90
		IEP	1828	488.19	78.60	3524	452.35	76.76
	8	No Disability	49321	585.74	63.79	2956	540.39	78.20
		Disability	1851	511.12	75.04	3062	475.22	78.48
		No IEP	49322	585.74	63.79	2955	540.41	78.20
		IEP	1847	510.98	74.99	3060	475.22	78.50
	9	No Disability	52828	587.36	65.14	1320	528.07	77.57
		Disability	2529	502.78	78.07	2461	484.60	76.23
		No IEP	52811	587.36	65.15	1321	528.12	77.56
		IEP	2531	502.79	78.05	2459	484.56	76.23
	10	No Disability	50010	596.70	66.70	1144	526.45	79.73
		Disability	2335	506.61	75.15	1920	489.14	76.68
		No IEP	50007	596.70	66.70	1144	526.49	79.74
		IEP	2333	506.61	75.20	1920	489.11	76.66

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Table 229. Scale Scores by Accommodation and Disability Classification (Continued)

Content	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	Std	N	Mean	Std
SCIENCE	5	No Disability	49606	510.42	56.75	4459	447.45	57.14
		Disability	1768	467.70	66.58	4209	427.85	62.58
		No IEP	49615	510.41	56.75	4458	447.43	57.14
		IEP	1758	467.48	66.64	4211	427.86	62.58
	8	No Disability	50467	507.18	54.95	2084	446.40	66.07
		No IEP	50463	507.18	54.94	2084	446.40	66.07
		IEP	2073	449.88	63.11	2852	417.69	61.16
		Disability	2074	449.95	63.12	2852	417.69	61.16
	10	No Disability	50147	502.48	58.37	1122	425.85	71.55
		Disability	2361	430.68	69.63	1921	412.65	69.90
		No IEP	50143	502.48	58.37	1124	426.01	71.59
		IEP	2358	430.73	69.67	1919	412.54	69.85

Content	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	Std	N	Mean	Std
SPANISH READING	3	No Disability	897	523.71	48.29	223	526.08	45.70
		Disability	25	465.20	68.90	65	456.12	72.45
		No IEP	897	523.71	48.29	223	526.08	45.70
		IEP	25	465.20	68.90	65	456.12	72.45
	4	No Disability	70	534.27	42.36	42	528.95	39.56
		Disability	1	525.00	.	.	.	.
		No IEP	70	534.27	42.36	42	528.95	39.56
		IEP	1	525.00	.	.	.	.
SPANISH WRITING	3	No Disability	889	515.22	70.71	233	506.20	68.90
		Disability	18	453.11	83.70	71	431.25	83.60
		No IEP	889	515.22	70.71	233	506.20	68.90
		IEP	18	453.11	83.70	71	431.25	83.60
	4	No Disability	67	515.06	36.52	45	514.42	40.57
		Disability	1	506.00	.	.	.	.
		No IEP	67	515.06	36.52	45	514.42	40.57
		IEP	1	506.00	.	.	.	.

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Table 230. Overall Estimates of Standard Error of Measurement

ContentArea	Grade	Standard Error Of Measurement
Reading	3	26.66
Reading	4	15.48
Reading	5	18.19
Reading	6	17.93
Reading	7	18.02
Reading	8	17.06
Reading	9	14.26
Reading	10	15.82
Spanish Reading	3	17.96
Spanish Reading	4	12.03
Writing	3	15.47
Writing	4	15.99
Writing	5	16.55
Writing	6	18.52
Writing	7	20.99
Writing	8	21.13
Writing	9	23.46
Writing	10	24.75
Spanish Writing	3	21.77
Spanish Writing	4	14.67
Mathematics	3	27.89
Mathematics	4	19.31
Mathematics	5	17.37
Mathematics	6	19.45
Mathematics	7	19.59
Mathematics	8	18.95
Mathematics	9	18.94
Mathematics	10	20.54
Science	5	17.61
Science	8	16.48
Science	10	18.35

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Table 231. Reading Scale Scores and Associated Standard Errors

RD 3		RD 4		RD 5		RD 6		RD 7		RD 8		RD 9		RD 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	253														
175	228	180	209												
200	203	200	189	220	175										
225	178	225	164	225	170										
250	153	250	139	250	149	260	164								
275	128	275	115	275	130	275	150								
300	105	300	95	300	112	300	128	300	118						
325	84	325	79	325	96	325	108	325	100	330	114				
350	67	350	64	350	82	350	91	350	85	350	99	350	133	370	123
375	54	375	52	375	68	375	74	375	71	375	82	375	109	375	119
400	42	400	42	400	55	400	59	400	59	400	68	400	89	400	97
425	34	425	33	425	44	425	46	425	48	425	55	425	72	425	78
450	27	450	26	450	33	450	35	450	37	450	45	450	57	450	63
475	23	475	20	475	25	475	27	475	29	475	36	475	44	475	49
500	19	500	15	500	20	500	22	500	23	500	29	500	32	500	38
525	17	525	12	525	16	525	18	525	19	525	23	525	22	525	29
550	17	550	11	550	14	550	16	550	16	550	18	550	15	550	22
575	18	575	11	575	13	575	14	575	15	575	16	575	13	575	18
600	20	600	11	600	13	600	13	600	14	600	14	600	11	600	15
625	22	625	12	625	14	625	13	625	14	625	13	625	11	625	13
650	26	650	14	650	15	650	14	650	14	650	13	650	11	650	12
675	31	675	17	675	17	675	15	675	15	675	14	675	12	675	12
700	36	700	20	700	19	700	16	700	17	700	15	700	13	700	12
725	42	725	25	725	21	725	19	725	19	725	16	725	15	725	13
750	50	750	30	750	24	750	22	750	21	750	18	750	17	750	15
775	59	775	37	775	28	775	27	775	25	775	22	775	20	775	17
795	67	800	45	800	33	800	32	800	30	800	26	800	25	800	21
		825	55	825	39	825	39	825	36	825	32	825	32	825	25
		850	67	850	46	850	47	850	43	850	39	850	40	850	31
		875	82	875	54	875	55	875	50	875	47	875	50	875	38
		900	100	900	63	900	65	900	59	900	57	900	61	900	47
		925	122	925	74	925	77	925	69	925	69	925	75	925	58
		940	137	950	87	950	91	950	80	950	83	950	92	950	70
				955	89	970	103	975	93	975	98	975	112	975	85
								980	95	990	109	995	130	999	101

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Table 232. Writing Scale Scores and Associated Standard Errors

WR 3		WR 4		WR 5		WR 6		WR 7		WR 8		WR 9		WR 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	107														
175	82	190	65												
200	61	200	60	220	51										
225	45	225	47	225	49	230	50	240	46						
250	34	250	37	250	39	250	42	250	43	250	49	260	44	270	44
275	26	275	30	275	32	275	34	275	36	275	40	275	40	275	43
300	21	300	25	300	27	300	29	300	31	300	34	300	34	300	37
325	18	325	22	325	23	325	25	325	28	325	29	325	30	325	32
350	16	350	18	350	21	350	23	350	26	350	26	350	27	350	29
375	14	375	16	375	18	375	21	375	24	375	24	375	26	375	26
400	13	400	14	400	16	400	19	400	23	400	23	400	24	400	23
425	12	425	13	425	14	425	17	425	22	425	21	425	23	425	20
450	12	450	12	450	13	450	15	450	19	450	19	450	21	450	18
475	14	475	13	475	13	475	14	475	17	475	18	475	20	475	16
500	19	500	14	500	14	500	14	500	16	500	17	500	19	500	17
525	24	525	17	525	16	525	15	525	17	525	17	525	18	525	18
550	29	550	20	550	18	550	18	550	18	550	18	550	18	550	20
575	33	575	24	575	21	575	21	575	19	575	19	575	19	575	22
600	37	600	29	600	25	600	23	600	21	600	20	600	21	600	25
625	45	625	35	625	29	625	27	625	23	625	22	625	23	625	27
650	56	650	42	650	34	650	30	650	26	650	24	650	25	650	30
675	74	675	51	675	40	675	35	675	30	675	26	675	29	675	33
680	79	700	62	700	49	700	42	700	34	700	30	700	33	700	36
		725	75	725	59	725	50	725	39	725	35	725	38	725	40
		730	78	750	73	750	60	750	45	750	42	750	44	750	45
				775	91	775	72	775	52	775	50	775	50	775	50
				780	94	800	86	800	60	800	59	800	58	800	56
						825	101	825	69	825	70	825	66	825	63
						840	112	850	80	850	83	850	75	850	71
								875	93	875	98	875	86	875	80
								890	102	900	115	900	98	900	90
										910	124	925	113	925	102
												930	116	950	116

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Table 233. Spanish Reading and Writing Scale Scores and Associated Standard Errors

SP RD 3		SP RD 4			Sp WR 3		SP WR 4	
SS	SE	SS	SE		SS	SE	SS	SE
					250	64		
					275	50		
300	128	300	101		300	39	300	62
325	103	325	80		325	30	325	47
350	78	350	62		350	24	350	36
375	56	375	48		375	20	375	28
400	39	400	35		400	18	400	22
425	26	425	25		425	17	425	19
450	17	450	18		450	17	450	17
475	13	475	13		475	17	475	15
500	12	500	10		500	18	500	13
525	12	525	9		525	20	525	11
550	14	550	9		550	22	550	11
575	16	575	10		575	24	575	12
600	19	600	12		600	26	600	15
625	24	625	15		625	29	625	20
650	32	650	22		650	33	650	26
675	42	675	30		675	40	675	32
700	55	700	38		700	50	700	41
725	69	725	48		725	64	725	51
740	79	750	58		750	81	750	63
		775	69				775	78
		790	76				790	88

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Table 234. Mathematics Scale Scores and Associated Standard Errors

MA 3		MA 4		MA 5		MA 6		MA 7		MA 8		MA 9		MA 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	69														
175	60	180	51												
200	52	200	45	220	64										
225	46	225	39	225	61	240	62								
250	40	250	34	250	51	250	59								
275	36	275	30	275	43	275	51	280	95						
300	32	300	26	300	36	300	45	300	81	310	78				
325	29	325	23	325	30	325	39	325	65	325	71	340	97		
350	26	350	21	350	25	350	34	350	52	350	60	350	88	370	82
375	24	375	19	375	22	375	30	375	42	375	50	375	69	375	78
400	23	400	17	400	19	400	26	400	34	400	42	400	55	400	62
425	22	425	16	425	17	425	23	425	29	425	35	425	44	425	51
450	22	450	15	450	16	450	20	450	25	450	30	450	36	450	41
475	23	475	15	475	15	475	18	475	22	475	26	475	29	475	34
500	24	500	15	500	14	500	16	500	19	500	22	500	24	500	29
525	26	525	16	525	14	525	15	525	16	525	18	525	21	525	23
550	29	550	18	550	14	550	14	550	14	550	16	550	17	550	19
575	32	575	20	575	15	575	14	575	13	575	14	575	15	575	16
600	37	600	23	600	17	600	15	600	13	600	13	600	13	600	14
625	43	625	28	625	20	625	17	625	13	625	12	625	12	625	13
650	50	650	34	650	26	650	20	650	14	650	13	650	11	650	12
675	59	675	41	675	33	675	24	675	17	675	15	675	11	675	11
700	70	700	50	700	41	700	30	700	21	700	18	700	12	700	12
		725	60	725	51	725	37	725	26	725	22	725	15	725	15
		750	73	750	63	750	47	750	33	750	26	750	20	750	19
		775	87	775	77	775	58	775	42	775	32	775	27	775	24
		780	91	800	93	800	70	800	52	800	39	800	36	800	30
						825	84	825	64	825	47	825	47	825	36
						830	87	850	78	850	56	850	60	850	44
								860	84	875	66	875	76	875	53
										890	73	900	95	900	64
												920	113	925	78
														950	95

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Table 235. Science Scale Scores and Associated Standard Errors

SC 5		SC 8		SC 10	
SS	SE	SS	SE	SS	SE
300	38	300	58	300	53
325	31	325	46	325	43
350	25	350	37	350	34
375	21	375	29	375	27
400	18	400	23	400	22
425	16	425	19	425	19
450	15	450	16	450	17
475	15	475	14	475	15
500	15	500	13	500	14
525	15	525	12	525	13
550	16	550	12	550	13
575	17	575	13	575	13
600	19	600	14	600	15
625	22	625	17	625	17
650	26	650	20	650	20
675	30	675	24	675	23
700	36	700	28	700	28
725	44	725	34	725	33
750	54	750	41	750	38
775	65	775	49	775	45
800	79	800	58	800	53
825	95	825	69	825	62
850	114	850	81	850	74
875	136	875	94	875	88
900	161	900	109	900	105

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Table 236. Cut Scores for the 2010 CSAP Tests

Language	Content Area	Grade	Unsatisfactory	Partially Proficient	Proficient	Advanced
English	Reading	3	150-465	466-525	526-655	656-795
English	Reading	4	180-516	517-571	572-670	671-940
English	Reading	5	220-537	538-587	588-690	691-955
English	Reading	6	260-542	543-599	600-695	696-970
English	Reading	7	300-566	567-619	620-715	716-980
English	Reading	8	330-577	578-631	632-723	724-990
English	Reading	9	350-584	585-641	642-738	739-995
English	Reading	10	370-606	607-662	663-746	747-999
Spanish	Reading	3	300-481	482-512	513-575	576-740
Spanish	Reading	4	300-505	506-536	537-591	592-790
English	Writing	3	150-392	393-464	465-532	533-680
English	Writing	4	190-413	414-484	485-553	554-730
English	Writing	5	220-417	418-497	498-575	576-780
English	Writing	6	230-422	423-512	513-599	600-840
English	Writing	7	240-429	430-538	539-628	629-890
English	Writing	8	250-433	434-555	556-650	651-910
English	Writing	9	260-435	436-562	563-671	672-930
English	Writing	10	270-458	459-577	578-689	690-950
Spanish	Writing	3	250-447	448-498	499-574	575-750
Spanish	Writing	4	300-495	496-531	532-595	596-790
English	Mathematics	3	150-334	335-418	419-509	510-700
English	Mathematics	4	180-382	383-454	455-537	538-780
English	Mathematics	5	220-421	422-493	494-561	562-800
English	Mathematics	6	240-453	454-519	520-588	589-830
English	Mathematics	7	280-486	487-558	559-613	614-860
English	Mathematics	8	310-520	521-576	577-627	628-890
English	Mathematics	9	340-547	548-601	602-651	652-920
English	Mathematics	10	370-561	562-626	627-691	692-950
English	Science	5	300-428	429-507	508-568	569-900
English	Science	8	300-458	459-506	507-578	579-900
English	Science	10	300-468	469-506	507-580	581-900

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Table 237. Alignment Summary, Reading and Writing

Grade	Score Reporting Category (SRC)	No items in SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	40	7	6	86%
	2	21	5	2	40%
	3	32	5	5	100%
4	1	29	8	7	88%
	2	21	5	4	80%
	3	32	5	5	100%
	4	15	5	5	100%
	5	13	6	4	67%
	6	13	4	3	75%
5	1	25	7	6	86%
	2	21	7	6	86%
	3	32	5	5	100%
	4	15	5	4	80%
	5	17	7	4	57%
	6	13	4	3	75%
6	1	27	7	6	86%
	2	21	7	6	86%
	3	32	5	5	100%
	4	12	5	5	100%
	5	19	7	6	86%
	6	12	4	3	75%
7	1	21	9	7	78%
	2	21	8	6	75%
	3	32	6	5	83%
	4	17	5	4	80%
	5	17	7	4	57%
	6	15	4	4	100%
8	1	23	7	4	57%
	2	21	7	6	86%
	3	32	6	5	83%
	4	17	5	5	100%
	5	15	6	4	67%
	6	14*	4	3	75%
9	1	21*	7	7	100%
	2	21	8	6	75%
	3	32	6	4	67%
	4	16	5	5	100%
	5	19	6	6	100%
	6	12*	5	4	80%
10	1	22	7	6	86%
	2	21	8	7	88%
	3	32	5	4	80%
	4	16	6	2	33%
	5	19	6	5	83%
	6	13	4	3	75%

*Content area in which item(s) were removed from calibration. Counts shown in this table do not include removed items.

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Table 238. Alignment Summary, Mathematics

Grade	Score Reporting Category (SRC)	No items in SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	8	13	8	62%
	2/3	11	10	9	90%
	4/5	14	15	12	80%
	6	7	9	5	56%
4	1	14	11	10	91%
	2	9	6	6	100%
	3	11	6	6	100%
	4/5	21	15	13	87%
	6	14	10	7	70%
5	1	16	13	12	92%
	2	11	7	6	86%
	3	11	15	9	60%
	4/5	15	22	13	59%
	6	16	12	7	58%
6	1	13	8	7	88%
	2	10	6	6	100%
	3	10	9	8	89%
	4/5	16	17	15	88%
	6	11	8	6	75%
7	1/6	19	18	11	61%
	2	12	5	5	100%
	3	12	9	8	89%
	4/5	17	14	13	93%
8	1/6	15	10	8	80%
	2	15	6	6	100%
	3	12	9	6	67%
	4/5	18	11	11	100%
9	1/6	13	9	7	78%
	2	17	12	11	92%
	3	15	14	12	86%
	4/5	15	9	8	89%
10	1/6	13	10	9	90%
	2	17	14	12	86%
	3	14*	22	13	59%
	4/5	14*	17	12	71%

* Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.

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Table 239. Alignment Summary, Science

Grade	Score Reporting Category (SRC)	No items in SRC	Number of PI	Number of PI Assessed	% of PI Assessed
5	1/5	30	11	11	100%
	2	15	16	13	81%
	3	15	13	11	85%
	4	15	13	11	85%
8	1/5	32	22	15	68%
	2	18	27	14	52%
	3	17	24	14	58%
	4	16	24	14	58%
10	1/5	33	24	20	83%
	2	15*	14	11	79%
	3	17	28	17	61%
	4	17	19	14	74%

* Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.

Table 240. Alignment Summary, Spanish Reading and Writing

Grade	Score Reporting Category (SRC)	No items in SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	40	7	5	71%
	2	21	4	1	25%
	3	32	5	5	100%
4	1	31	8	6	75%
	2	19	5	4	80%
	3	34	5	4	80%
	4	14	5	5	100%
	5	13	6	3	50%
	6	12	4	3	75%

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Table 241. Items Flagged for DIF by Ethnicity Focal Group

				Ethnicity Focal Group[1]											
				Am. Indian/ AK Native			Asian/Pacific Islander			Black			Hispanic		
Content Area	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathe-	3	5	CR	*	698	-0.101				+	3673	0.104			
matics	4	63	CR							*	3668	-0.117			
	4	69	CR				+	2210	0.106						
	5	46	CR							*	3625	-0.167			
	8	27	MC										*	15236	-0.108
	9	55	CR				+	2000	0.109						
	10	27	CR				*	1844	-0.155						
Reading	4	23	CR				+	2207	0.121						
	4	109	CR				+	2207	0.110						
	5	99	CR				+	2181	0.161						
	6	29	CR				+	2164	0.141						
	6	111	CR				+	2164	0.181						
	7	14	CR				+	2057	0.120						
	7	95	CR				*	2057	-0.101						
	8	28	CR				+	2104	0.136				+	15229	0.108
	8	29	CR							+	3386	0.101			
	8	96	CR				*	2104	-0.103						
	8	112	MC							*	3386	-0.103			
	9	5	CR							+	3659	0.127			
	9	9	MC				*	2004	-0.112						
	9	13	CR				+	2004	0.132						
	9	15	CR										+	15935	0.105
	9	25	CR							*	3659	-0.119			
	9	43	CR				+	2004	0.114						
	9	45	CR				+	2004	0.242						
	9	100	CR				+	2004	0.103						
	10	10	CR										+	13998	0.103
	10	45	CR				+	1835	0.112						
	10	95	CR				+	1835	0.116						
	10	106	CR				+	1835	0.110						
Science	8	22	CR	*	627	-0.109	+	2106	0.148				+	15224	0.163
	8	76	CR				+	2106	0.103						
	10	22	CR				+	1841	0.220				+	14014	0.160
	10	23	CR				+	1841	0.113	+	3445	0.157			
Writing	3	6	MC										*	17308	-0.105
	4	51	CR										+	17616	0.111
	5	3A	CR							+	3616	0.124			
	7	2D	CR				*	2053	-0.147						
	7	89	MC										*	15807	-0.107
	7	92	CR										+	15807	0.100
	8	79	MC				*	2104	-0.100						
	9	2D	CR				*	2002	-0.125						
	9	55	MC				*	2002	-0.171						
	9	56	MC				+	2002	0.175						
	9	96	CR				+	2002	0.117						
	9	116	CR				+	2002	0.114						
	10	94	CR				+	1833	0.108						

1. DIF is not reported for N less than 100. Flag + = favoring and * = disfavoring

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Table 242. Items Flagged for DIF by Gender Focal Group

				Gender Focal Group[1]					
				Female			Male		
Content Area	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	7	60	CR	+	28083	0.111			
	8	28	CR	+	27801	0.102			
	9	40	CR	+	28785	0.144	*	30255	-0.117
Reading	8	111	CR	+	27790	0.112	*	29292	-0.108
	9	28	CR	+	28733	0.111			
	9	43	CR				*	30187	-0.108
	10	10	CR	+	27237	0.123			
Science	8	22	CR	+	27779	0.119			
Writing	6	79	CR	+	28124	0.122	*	29242	-0.122
	7	60	CR				*	29291	-0.107
	8	22	CR	+	27791	0.116	*	29292	-0.118
	8	88	CR				*	29292	-0.104
	9	96	CR	+	28728	0.120	*	30193	-0.124
	10	74	CR	+	27271	0.115	*	28502	-0.136

1. DIF is not reported for N less than 100. Flag + = favoring and * = disfavoring

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Table 243. Items Flagged for DIF by Accommodations Focal Group

				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	3	1	MC							*	217	-0.14						
		4	CR							+	217	0.168						
		18	MC							*	217	-0.127						
		19	MC													+	698	0.124
		20	CR							+	217	0.228						
		26	CR				+	6719	0.17	+	217	0.231						
		39	MC													*	698	-0.153
		40	CR							+	217	0.112						
	4	1	MC													*	170	-0.109
		4	MC							*	223	-0.136						
		5	CR				+	6136	0.111	+	223	0.125						
		7	MC													*	170	-0.111
		8	MC							*	223	-0.107						
		15	CR													*	170	-0.395
		18	CR				+	6136	0.116							+	170	0.298
		19	MC													*	170	-0.115
		30	CR													+	170	0.162
		33	CR							+	223	0.189						
		46	CR							+	223	0.279						
		49	CR				*	6136	-0.119							*	170	-0.145
		57	MC							*	223	-0.122						
		66	MC							*	223	-0.101						
	5	3	MC							*	217	-0.131						
		10	CR													*	144	-0.153
		12	MC													*	144	-0.143
		13	MC													*	144	-0.113
		17	CR				*	5437	-0.17							*	144	-0.189
		18	MC													+	144	0.115
		23	CR							+	217	0.282						
		26	MC													+	144	0.104
		34	MC													+	144	0.148
		35	CR				+	5437	0.166	+	217	0.154				+	144	0.251
		41	MC													*	144	-0.129

[1] DIF is not reported for N less than 100. Flag +=favoring and *=disfavoring focal group.
[2] Other includes use of manipulatives, signing, assistive comm..device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Brailleversion, and large-print version.

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Table 243. Items Flagged for DIF by Accommodations Focal Group (continued)

				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	5	43	MC													+	144	0.131
		46	CR													*	144	-0.159
		60	CR							+	217	0.197						
		63	MC													*	144	-0.117
		69	CR				+	5437	0.115									
	6	2	MC													+	194	0.102
		6	MC							*	158	-0.112						
		13	CR													+	194	0.124
		23	CR										+	1354	0.101			
		34	MC													*	194	-0.113
		37	CR							+	158	0.217						
		53	MC													+	194	0.115
		60	CR													*	194	-0.199
	7	8	MC													*	195	-0.112
		11	CR	*	2547	-0.117							*	1124	-0.116	*	195	-0.221
		20	CR				+	2429	0.108									
		29	CR													*	195	-0.176
		33	CR				*	2429	-0.133							*	195	-0.164
		35	CR													+	195	0.247
		37	MC							*	118	-0.124						
		48	MC													+	195	0.102
		55	CR							*	118	-0.18				+	195	0.201
		60	CR							*	118	-0.385						
	8	4	CR				*	2134	-0.162	*	95	-0.305				*	157	-0.178
		8	CR				*	2134	-0.103							*	157	-0.156
		10	MC							*	95	-0.154				+	157	0.148
		24	CR							+	95	0.197				+	157	0.14
		27	MC													+	157	0.145
		28	MC													+	157	0.198
		34	CR										*	944	-0.105			
		40	CR										+	944	0.102	+	157	0.189
		44	CR				*	2134	-0.13							*	157	-0.207
		46	MC													*	157	-0.141

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Table 243. Items Flagged for DIF by Accommodations Focal Group (continued)

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				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	8	48	CR													*	157	-0.225
		51	CR													+	157	0.115
		54	MC													*	157	-0.123
		59	MC													+	157	0.103
		60	CR													+	157	0.171
	9	30	MC													+	269	0.147
		35	CR										*	560	-0.106	*	269	-0.151
		38	MC							*	75	-0.147						
		44	MC							+	75	0.207						
		54	CR													*	269	-0.123
	10	1	MC													+	237	0.115
		2	MC							+	67	0.111						
		4	CR							*	67	-0.272						
		19	MC													*	237	-0.131
		30	MC													+	237	0.141
		31	MC							+	67	0.144						
		37	MC													+	237	0.115
		48	CR													*	237	-0.169
		52	CR													+	237	0.136
READING	3	1	CR							*	279	-0.104						
		6	CR													*	63	-0.185
		14	CR							+	279	0.171						
		26	CR							+	279	0.201						
	4	26	MC													*	61	-0.174
		6	MC													*	61	-0.174
		11	CR													*	61	-0.267
		31	MC													*	61	-0.267
		39	CR													+	61	0.114
		19	MC													+	61	0.114
		51	MC							+	315	0.139						
		100	MC							+	315	0.166						
		105	MC							+	315	0.186						
		116	CR													*	61	-0.106

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Table 243. Items Flagged for DIF by Accommodations Focal Group (continued)

				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	5	96	CR							*	262	-0.106						
		5	MC							*	262	-0.106						
		97	MC							*	262	-0.173						
		6	CR							*	262	-0.173						
		114	MC							+	262	0.143						
		23	CR							+	262	0.143						
		33	MC													+	56	0.164
		48	CR							+	262	0.129						
	6	11	CR							*	206	-0.188						
		35	MC							*	206	-0.188						
		97	MC							+	206	0.103						
	7	98	MC							*	161	-0.118						
		101	MC							+	161	0.121						
		102	MC							+	161	0.102						
	8	100	MC							+	123	0.102						
		102	MC							+	123	0.141						
		104	CR							+	123	0.118						
	9	16	MC							*	95	-0.151						
		38	MC							*	95	-0.151						
		45	MC							*	95	-0.129						
		23	MC							*	95	-0.129						
		102	MC							*	95	-0.126						
	10	105	MC										*	707	-0.12			
		13	MC										*	707	-0.12			
		47	CR	+	2110	0.146							+	707	0.19			
SCIENCE	5	5	MC													+	167	0.103
		9	MC													+	167	0.161
		16	MC													+	167	0.201
		23	CR													*	167	-0.162
		24	CR				*	5422	-0.151									
		26	MC													+	167	0.135
		28	MC							*	229	-0.125						
		29	CR							+	229	0.142				*	167	-0.141

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Table 243. Items Flagged for DIF by Accommodations Focal Group (continued)

				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
SCIENCE	8	34	CR													+	167	0.143
		38	MC													*	167	-0.146
		50	MC													+	167	0.14
		55	CR				*	5422	-0.156									
		63	MC				+	5422	0.126							+	167	0.113
		65	MC							*	229	-0.121						
		69	MC													+	167	0.12
		3	MC													+	174	0.149
		6	MC							*	98	-0.133				*	174	-0.102
		14	CR							+	98	0.139						
		15	MC													+	174	0.149
		24	CR				*	2128	-0.129	*	98	-0.429						
		28	MC							*	98	-0.118				*	174	-0.104
		37	CR													*	174	-0.179
		39	MC													*	174	-0.106
		51	MC							+	98	0.139						
		54	MC													+	174	0.104
		74	MC													+	174	0.139
		78	MC							+	98	0.127						
	10	21	CR				*	856	-0.118									
		31	MC							*	75	-0.149						
		63	MC													+	257	0.105
		65	CR													*	257	-0.211
		77	CR				+	856	0.114									
WRITING	3	1A	CR							*	282	-0.167						
		1B	CR													*	74	-0.131
		1C	CR				*	6265	-0.107	*	282	-0.172				*	74	-0.196
		5	MC							*	282	-0.107						
		9	MC							*	282	-0.103						
		13D	CR							+	282	0.115						
		15	MC							*	282	-0.103						
		19	MC				+	6265	0.116							+	74	0.18
		20	MC				+	6265	0.109									

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Table 243. Items Flagged for DIF by Accommodations Focal Group (continued)

				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	3	28	MC							*	282	-0.108						
		30D	CR							+	282	0.181						
		37	MC													+	74	0.152
		39D	CR							+	282	0.209						
	4	2A	CR							*	293	-0.14						
		2C	CR							*	293	-0.112						
		2D	CR													*	118	-0.114
		3A	CR							+	293	0.269						
		3B	CR				*	5562	-0.113	+	293	0.286						
		3C	CR							+	293	0.134						
		53	MC							+	293	0.218				+	118	0.26
		62	MC													+	118	0.114
		23	CR													+	118	0.114
		63	MC													*	118	-0.112
		71	MC							*	293	-0.101						
		72	MC													*	118	-0.141
		76	MC							*	293	-0.106						
		80	MC													+	118	0.156
		81	MC													+	118	0.151
		82	MC													+	118	0.104
		83	MC							*	293	-0.11						
		90	MC				+	5562	0.19									
	5	1	CR													*	134	-0.111
		2A	CR							*	256	-0.109						
		2B	CR													*	134	-0.117
		2D	CR													+	134	0.142
		2F	CR				*	4985	-0.128	*	256	-0.144						
		3C	CR							+	256	0.118						
		53	MC							+	256	0.108				+	134	0.319
		69	MC													*	134	-0.116
		77	MC							+	256	0.103						
		78	MC							+	256	0.127						
		79	MC				+	4985	0.12									

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Table 243. Items Flagged for DIF by Accommodations Focal Group (continued)

				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	5	91	MC													+	134	0.16
		94	CR							+	256	0.13						
	6	2D	CR							*	200	-0.155						
		3C	CR							+	200	0.11						
		51	MC	+	3722	0.121	+	2968	0.188	+	200	0.287	+	1395	0.183	+	174	0.252
		52	MC							*	200	-0.132						
		54	MC													*	174	-0.161
		61	MC													*	174	-0.101
		70	MC													+	174	0.137
		86	MC													+	174	0.124
		87	MC							+	200	0.131						
		90	MC													+	174	0.101
	7	2A	CR													*	179	-0.11
		2B	CR													*	179	-0.194
		56	MC													*	179	-0.11
		47	CR													*	179	-0.11
		57	MC							*	166	-0.102						
		58	MC							*	166	-0.1						
		62	MC													+	179	0.118
		69	MC										+	1199	0.113			
		70	MC							+	166	0.121				+	179	0.118
		72	MC													*	179	-0.113
		75	MC													+	179	0.122
		81	MC				+	2201	0.109									
		83	MC													+	179	0.173
		88	MC													*	179	-0.114
		89	CR							+	166	0.111						
	8	2B	CR													*	166	-0.107
		2F	CR													+	166	0.13
		51	MC	+	2621	0.123	+	1903	0.135				+	1012	0.114			
		63	MC													+	166	0.117
		72	MC													+	166	0.149
		73	MC													*	166	-0.223

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Table 243. Items Flagged for DIF by Accommodations Focal Group (continued)

				Accommodations Focal Group[1]														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other[2]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	8	75	MC	+	2621	0.127							+	1012	0.115			
		76	MC													*	166	-0.114
		80	MC													+	166	0.101
		86	MC													+	166	0.115
	9	2D	CR													+	238	0.161
		2F	CR							*	110	-0.103				+	238	0.112
		3C	CR													*	238	-0.115
		47	MC				+	947	0.135							+	238	0.153
		51	MC													+	238	0.139
		52	MC													*	238	-0.186
		54	MC													*	238	-0.105
		56	MC													+	238	0.114
		59	MC													+	238	0.175
		66	MC							+	110	0.123						
		69	MC													+	238	0.222
		82	MC													+	238	0.128
	10	2A	CR				*	743	-0.152							*	235	-0.264
		2B	CR				*	743	-0.126	*	85	-0.151				+	235	0.155
		2C	CR													*	235	-0.105
		2F	CR													*	235	-0.117
		72	CR										+	467	0.142			
		73	MC													*	235	-0.117
		85	MC				+	743	0.111									
		88	MC													*	235	-0.251
		93	MC													+	235	0.106
		94	MC													+	235	0.104
		95	CR				+	743	0.119				+	467	0.16	+	235	0.197

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Table 244. Items Flagged for DIF by Primary Disability

				Primary Disability State Focal Group														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	3	4	CR	*	338	-0.106												
		20	CR				+	2302	0.118									
		26	CR				+	2302	0.158									
	4	5	CR				+	2785	0.114									
		15	CR							*	699	-0.125				*	364	-0.138
		28	CR	*	430	-0.108												
		39	MC													+	364	0.111
		46	CR													+	364	0.16
		49	CR	*	430	-0.102	*	2785	-0.139	*	699	-0.103				*	364	-0.113
		55	CR	+	430	0.106												
	5	10	CR	*	470	-0.268				*	699	-0.147				*	376	-0.104
		17	CR	*	470	-0.147	*	3249	-0.169							*	376	-0.143
		33	CR	*	470	-0.132												
		35	CR				+	3249	0.13									
		46	CR	*	470	-0.182												
		49	CR	+	470	0.119												
		54	CR	*	470	-0.108												
		69	CR				+	3249	0.105	+	699	0.145						
	6	7	CR	*	491	-0.241				*	770	-0.114				*	343	-0.202
		33	CR							*	770	-0.118				*	343	-0.159
		37	CR	*	491	-0.13	*	3220	-0.108									
		53	MC													+	343	0.101
		60	CR	+	491	0.138												
	7	11	CR	*	542	-0.106												
		20	CR							+	803	0.102						
		25	CR													*	338	-0.144
		33	CR				*	3071	-0.109				*	597	-0.106	*	338	-0.16
		55	CR							*	803	-0.11						
		60	CR	*	542	-0.306				*	803	-0.207				*	338	-0.153
	8	4	CR	*	580	-0.113										*	364	-0.197
		34	CR	*	580	-0.16	*	2822	-0.118	*	735	-0.114						

[1] DIF is not reported for N less than 100. Flag +=favoring and *=disfavoring focal group.

[2] Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

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Table 244. Items Flagged for DIF by Primary Disability State (continued)

				Primary Disability State Focal Group														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATH	8	44	CR	*	580	-0.122				*	735	-0.111				*	364	-0.179
		55	CR	*	580	-0.144				*	735	-0.102				*	364	-0.138
	9	20	CR	*	715	-0.136												
		23	CR	+	715	0.112												
		54	CR	*	715	-0.134										*	335	-0.136
		60	CR	*	715	-0.217				*	760	-0.12						
	10	1	MC										+	225	0.107			
		22	MC										+	225	0.104			
		48	CR										*	225	-0.162			
		60	CR	*	614	-0.129							+	225	0.156			
READING	3	1	CR	*	330	-0.205				*	564	-0.125				*	350	-0.214
		25	CR	*	330	-0.214	*	2250	-0.1	*	564	-0.152						
		31	CR	*	330	-0.113												
	4	11	CR	*	426	-0.118												
		31	MC	*	426	-0.118												
		42	MC	*	426	-0.138				*	697	-0.107						
		22	CR	*	426	-0.138				*	697	-0.107						
		43	MC	*	426	-0.161				*	697	-0.117				*	356	-0.151
		100	MC	*	426	-0.175				*	697	-0.11						
	5	97	MC	*	469	-0.22				*	700	-0.158						
		6	CR	*	469	-0.22				*	700	-0.158						
		101	MC													*	367	-0.176
		10	CR													*	367	-0.176
		102	MC	*	469	-0.175												
		11	CR	*	469	-0.175												
		103	MC	*	469	-0.123												
		12	CR	*	469	-0.123												
		28	CR	*	469	-0.108												
		35	CR	*	469	-0.119												
		43	CR	*	469	-0.234										*	367	-0.128
		48	CR	*	469	-0.114												
	6	30	MC	*	488	-0.185				*	772	-0.151				*	345	-0.129
		6	CR	*	488	-0.185				*	772	-0.151				*	345	-0.129
		11	CR	*	488	-0.185				*	772	-0.132						
		35	MC	*	488	-0.185				*	772	-0.132						

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Table 244. Items Flagged for DIF by Primary Disability State (continued)

				Primary Disability State Focal Group														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	6	12	CR	*	488	-0.189												
		36	CR	*	488	-0.189												
		42	MC	*	488	-0.104												
		18	CR	*	488	-0.104												
		48	MC	*	488	-0.174				*	772	-0.114						
		24	CR	*	488	-0.174				*	772	-0.114						
		94	CR	*	488	-0.102												
		106	CR													+	345	0.137
		116	MC	*	488	-0.186				*	772	-0.102						
	7	29	MC							+	802	0.145						
		4	CR							+	802	0.145						
		31	MC	*	542	-0.102				*	802	-0.103				*	335	-0.115
		6	CR	*	542	-0.102				*	802	-0.103				*	335	-0.115
		11	CR	*	542	-0.191										*	335	-0.134
		36	MC	*	542	-0.191										*	335	-0.134
		25	CR	*	542	-0.159				*	802	-0.103						
		95	MC													*	335	-0.112
		98	MC	*	542	-0.128												
		102	MC	+	542	0.116												
		108	MC	*	542	-0.169				*	802	-0.134	*	596	-0.115	*	335	-0.111
	8	13	CR	*	574	-0.189										*	370	-0.108
		31	MC	*	574	-0.189										*	370	-0.108
		39	MC	*	574	-0.103												
		42	CR	+	574	0.113												
		44	MC	+	574	0.108												
		45	MC	*	574	-0.305				*	735	-0.202				*	370	-0.15
		97	MC	*	574	-0.12												
		99	MC	*	574	-0.108												
		101	MC	*	574	-0.109												
		106	MC	*	574	-0.155												
		110	MC	*	574	-0.138				*	735	-0.207						
	9	4	CR	*	716	-0.124				*	753	-0.135				*	335	-0.158
		26	MC	*	716	-0.124				*	753	-0.135				*	335	-0.158
		10	MC	+	716	0.104				+	753	0.105						
		32	MC	+	716	0.104				+	753	0.105						

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Table 244. Items Flagged for DIF by Primary Disability State (continued)

				Primary Disability State Focal Group														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	9	11	MC													+	335	0.102
		33	MC													+	335	0.102
		92	MC	*	716	-0.135												
		106	MC	*	716	-0.179										*	335	-0.119
		110	MC										*	310	-0.113			
		115	CR	*	716	-0.109												
	10	96	CR	+	607	0.104				+	726	0.136						
		4	MC	+	607	0.104				+	726	0.136						
		97	MC							*	726	-0.103				*	318	-0.157
		5	CR							*	726	-0.103				*	318	-0.157
		31	CR							*	726	-0.104						
		32	MC										*	227	-0.101			
		36	CR													*	318	-0.121
		47	CR										+	227	0.192			
SCIENCE	5	24	CR				*	3260	-0.157									
		29	CR													*	367	-0.101
		55	CR	*	475	-0.203	*	3260	-0.165	*	695	-0.113				*	367	-0.102
		57	MC													+	367	0.103
		65	MC	*	475	-0.133												
		66	CR	*	475	-0.109												
		75	CR	*	475	-0.119				*	695	-0.1				*	367	-0.11
	8	1	MC	+	578	0.124				+	739	0.12						
		14	CR	+	578	0.127												
		24	CR	*	578	-0.501	*	2825	-0.204	*	739	-0.334				*	367	-0.266
		25	CR	*	578	-0.112				*	739	-0.126						
		37	CR													*	367	-0.171
	10	21	CR	*	614	-0.398				*	738	-0.306				*	318	-0.314
		22	CR	*	614	-0.118												
		24	CR	*	614	-0.19										*	318	-0.139
		26	CR	*	614	-0.101												
		60	MC										+	225	0.116			
		77	CR										+	225	0.126			
WRITING	3	1C	CR				*	2251	-0.122									
	3	9	MC													*	347	-0.111
	3	15	MC													*	347	-0.109

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Table 244. Items Flagged for DIF by Primary Disability State (continued)

				Primary Disability State Focal Group														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	3	17	MC	+	334	0.124	+	2251	0.107									
		19	MC				+	2251	0.1									
		20	MC				+	2251	0.121									
		39C	CR	*	334	-0.106												
	4	3B	CR	*	430	-0.203	*	2767	-0.127	*	700	-0.11						
		53	MC	*	430	-0.186										*	356	-0.129
		74	MC	*	430	-0.363				*	700	-0.22						
		85	MC	+	430	0.103												
		87	MC	+	430	0.141												
		88	MC	+	430	0.104												
		90	MC				+	2767	0.146							+	356	0.119
	5	2F	CR				*	3234	-0.177									
		3A	CR	*	470	-0.23				*	700	-0.121				*	365	-0.22
		3B	CR	*	470	-0.25	*	3234	-0.101	*	700	-0.159				*	365	-0.19
		3C	CR	*	470	-0.104												
		64	CR	*	470	-0.346				*	700	-0.219				*	365	-0.145
		116	CR	*	470	-0.346				*	700	-0.219				*	365	-0.145
		73	MC	+	470	0.108												
		89	MC													+	365	0.101
		94	CR	*	470	-0.261				*	700	-0.128						
	6	2D	CR				*	3210	-0.145									
		3A	CR	*	491	-0.118				*	775	-0.112				*	346	-0.153
		3B	CR	*	491	-0.124				*	775	-0.113				*	346	-0.165
		51	MC	*	491	-0.176	+	3210	0.156									
		68	MC	+	491	0.138												
		78	MC	*	491	-0.269				*	775	-0.135				*	346	-0.131
	7	3A	CR	*	543	-0.182										*	335	-0.112
		3B	CR	*	543	-0.184										*	335	-0.133
		48	MC	*	543	-0.324				*	799	-0.173						
		53	MC	+	543	0.102												
		69	MC	*	543	-0.322				*	799	-0.11				*	335	-0.106
		89	CR	+	543	0.106												
	8	2F	CR				*	2812	-0.135									
		3A	CR	*	575	-0.142				*	733	-0.143				*	372	-0.168
		3B	CR	*	575	-0.199				*	733	-0.142				*	372	-0.144

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Table 244. Items Flagged for DIF by Primary Disability State (continued)

				Primary Disability State Focal Group														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	8	51	MC	*	575	.238							+	415	0.111			
		73	MC	+	575	0.115												
		75	MC	*	575	-0.232							+	415	0.112			
	9	2E	CR										*	310	-0.148			
		2F	CR				*	2874	-0.103									
		3A	CR	*	715	-0.163										*	336	-0.183
		3B	CR	*	715	-0.166				*	755	-0.124				*	336	-0.186
		47	MC	*	715	-0.206							+	310	0.181			
		66	MC	+	715	0.108												
		69	MC	*	715	-0.201							+	310	0.138			
	10	2B	CR				*	2368	-0.186									
		2D	CR										*	230	-0.106			
		2F	CR										*	230	-0.104			
		3A	CR	*	610	-0.123										*	320	-0.167
		3B	CR	*	610	-0.144										*	320	-0.109
		72	CR	*	610	-0.108	+	2368	0.122				+	230	0.159			
		83	MC													+	320	0.118
		95	CR	*	610	-0.196	+	2368	0.139				+	230	0.199			

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Table 245. Items Flagged for DIF by Enrollment Focal Group

				Enrollment Focal Group[1]								
				Cont. Enroll in CO No			Cont. Enroll in US No			Cont. Enroll in US Yes		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	9	8	CR							*	6750	-0.119
Science	8	24	CR				*	10392	-0.140			
Science	10	21	CR	*	9884	-0.109	*	12045	-0.111			

[1] Flag +=favoring and *=disfavoring focal group.

[1] DIF is not reported for N less than 100. Flag +=favoring and *=disfavoring focal group.

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group

				Language Proficiency Focal Group[1]														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	4	15	CR													*	2156	-0.218
		18	CR	+	813	0.229	+	10837	0.104				+	7066	0.121	+	2156	0.135
		30	CR													+	2156	0.105
		46	CR													+	2156	0.102
		49	CR													*	2156	-0.109
		65	CR										*	7066	-0.105			
		69	CR	+	813	0.283	+	10837	0.129	+	2388	0.104	+	7066	0.16	+	2156	0.114
	5	10	CR										+	5954	0.119			
		17	CR													*	1228	-0.158
		22	MC													*	1228	-0.115
		33	CR	+	677	0.115												
		43	MC													+	1228	0.123
		54	CR	+	677	0.126	+	10030	0.111				+	5954	0.136	+	1228	0.102
		66	CR													*	1228	-0.159
	6	14	MC													*	934	-0.106
		24	MC													+	934	0.132
		29	CR	+	271	0.15												
		37	CR													*	934	-0.138
		43	CR										*	5102	-0.141	*	934	-0.153
		53	MC	+	271	0.126										+	934	0.176
		55	MC													+	934	0.106
		57	CR	+	271	0.115												
	7	6	MC													+	785	0.1
		11	CR										*	4203	-0.115	*	785	-0.155
		12	MC													*	785	-0.13
		14	CR	*	270	-0.144												
		16	MC	*	270	-0.112												
		18	MC													*	785	-0.121
		25	CR													*	785	-0.137
		29	CR													*	785	-0.113
		33	CR													*	785	-0.257
		35	CR										+	4203	0.102	+	785	0.109
		52	MC	+	270	0.102												
		55	CR													+	785	0.206

[1] DIF is not reported for N less than 100. Flag +=favoring and *=disfavoring focal group.

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group (continued)

				Language Proficiency Focal Group														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	7	60	CR	+	270	0.229				+	4651	0.12				*	785	-0.176
	8	4	CR	+	261	0.138										*	674	-0.183
		5	MC													+	674	0.102
		8	CR										*	3553	-0.128	*	674	-0.165
		20	CR							*	4782	-0.124						
		24	CR													+	674	0.135
		28	MC													+	674	0.161
		40	CR				+	8758	0.122				+	3553	0.153	+	674	0.16
		44	CR													*	674	-0.265
		48	CR	*	261	-0.2	*	8758	-0.105				*	3553	-0.169	*	674	-0.321
		60	CR	+	261	0.249							+	3553	0.138			
	9	8	CR							*	4811	-0.116						
		16	MC													*	924	-0.112
		20	CR										+	3031	0.1			
		23	CR	+	190	0.132							+	3031	0.105	+	924	0.14
		25	MC													+	924	0.108
		33	MC													*	924	-0.108
		35	CR										*	3031	-0.101	*	924	-0.146
		54	CR													*	924	-0.112
	10	8	MC													+	784	0.104
		19	MC													*	784	-0.121
		36	CR							*	4628	-0.129						
		48	CR													*	784	-0.112
READING	3	6	CR													*	2237	-0.149
		9	MC	*	559	-0.121												
		25	CR	+	559	0.171							+	7342	0.117			
		28	MC	*	559	-0.215	*	10438	-0.128				*	7342	-0.149	*	2237	-0.111
		35	CR	+	559	0.163							+	7342	0.115			
	4	42	MC	+	781	0.135				+	2388	0.104						
		22	CR	+	781	0.135				+	2388	0.104						
		43	MC							+	2388	0.123						
		48	MC													*	2036	-0.118
		100	MC	+	781	0.108				+	2388	0.105						
	5	101	MC	*	693	-0.118										*	1208	-0.109
		10	CR	*	693	-0.118										*	1208	-0.109
		102	MC	+	693	0.166				+	3507	0.112	+	5949	0.113			

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group (continued)

				Language Proficiency Focal Group														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	5	11	CR	+	693	0.166				+	3507	0.112	+	5949	0.113			
		39	MC	*	693	-0.123												
		43	CR	+	693	0.124	+	10032	0.15	+	3507	0.146	+	5949	0.155	+	1208	0.138
	6	30	MC				+	9940	0.125	+	4195	0.143	+	5081	0.132			
		6	CR				+	9940	0.125	+	4195	0.143	+	5081	0.132			
		31	MC	*	271	-0.109												
		7	MC	*	271	-0.109												
		11	CR				+	9940	0.148	+	4195	0.174	+	5081	0.116	+	928	0.214
		35	MC				+	9940	0.148	+	4195	0.174	+	5081	0.116	+	928	0.214
		12	CR										+	5081	0.129			
		36	CR										+	5081	0.129			
		48	MC	+	271	0.187												
		24	CR	+	271	0.187												
		97	MC							*	4195	-0.112						
		101	MC	+	271	0.144	+	9940	0.107	+	4195	0.108	+	5081	0.126			
		103	MC				*	9940	-0.101	*	4195	-0.155						
		108	MC	+	271	0.101												
		116	MC				+	9940	0.105	+	4195	0.142	+	5081	0.106			
	7	29	MC				*	9359	-0.123				*	4193	-0.208			
		4	CR				*	9359	-0.123				*	4193	-0.208			
		5	CR													*	776	-0.279
		30	MC													*	776	-0.279
		31	MC							+	4647	0.143						
		6	CR							+	4647	0.143						
		11	CR													*	776	-0.133
		36	MC													*	776	-0.133
		15	MC													+	776	0.104
		40	CR													+	776	0.104
		17	MC	+	271	0.152												
		42	MC	+	271	0.152												
		25	CR	+	271	0.226				+	4647	0.171						
		97	MC													+	776	0.103
		98	MC				+	9359	0.104	+	4647	0.115	+	4193	0.124			
		102	MC							*	4647	-0.108						
		108	MC							+	4647	0.107						
	8	22	CR													*	665	-0.207

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group (continued)

				Language Proficiency Focal Group														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	8	4	MC													*	665	-0.207
		13	CR	+	260	0.21										+	665	0.193
		31	MC	+	260	0.21										+	665	0.193
		14	CR													*	665	-0.245
		32	MC													*	665	-0.245
		15	MC													*	665	-0.11
		33	MC													*	665	-0.11
		16	MC							*	4782	-0.137						
		34	MC							*	4782	-0.137						
		40	CR										*	3543	-0.101			
		45	MC	+	260	0.296	+	8737	0.271	+	4782	0.268	+	3543	0.295	+	665	0.182
		47	CR										+	3543	0.101	+	665	0.113
		101	MC				+	8737	0.101	+	4782	0.107	+	3543	0.128	*	665	-0.1
		102	MC							*	4782	-0.108						
		110	MC							+	4782	0.114				*	665	-0.151
		114	MC	*	260	-0.166	*	8737	-0.11				*	3543	-0.139			
	9	4	CR	+	181	0.145										+	919	0.279
		26	MC	+	181	0.145										+	919	0.279
		6	MC	*	181	-0.112	*	8602	-0.127	*	4813	-0.159	*	3028	-0.105			
		28	MC	*	181	-0.112	*	8602	-0.127	*	4813	-0.159	*	3028	-0.105			
		7	CR										+	3028	0.106	*	919	-0.25
		29	CR										+	3028	0.106	*	919	-0.25
		11	MC													+	919	0.13
		33	MC													+	919	0.13
		92	MC	+	181	0.246				+	4813	0.111						
		95	MC													+	919	0.121
		96	MC	*	181	-0.169												
		106	MC	+	181	0.16	+	8602	0.126	+	4813	0.146	+	3028	0.153			
		110	MC				*	8602	-0.101				*	3028	-0.123			
		111	MC													+	919	0.186
		112	CR	*	181	-0.136	*	8602	-0.132				*	3028	-0.178	*	919	-0.15
	10	96	CR										*	2329	-0.11			
		4	MC										*	2329	-0.11			
		97	MC				+	7573	0.189	+	4619	0.228	+	2329	0.189			
		5	CR				+	7573	0.189	+	4619	0.228	+	2329	0.189			
		100	MC	*	177	-0.182										*	772	-0.127

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group (continued)

				Language Proficiency Focal Group														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	10	8	MC	*	177	-0.182										*	772	-0.127
		102	MC													*	772	-0.117
		10	MC													*	772	-0.117
		11	CR							+	4619	0.116						
		103	MC							+	4619	0.116						
		12	MC	*	177	-0.115										*	772	-0.102
		104	MC	*	177	-0.115										*	772	-0.102
		105	MC										*	2329	-0.113	*	772	-0.18
		13	MC										*	2329	-0.113	*	772	-0.18
		28	CR				+	7573	0.153	+	4619	0.201	+	2329	0.124			
		29	CR	+	177	0.151	+	7573	0.17	+	4619	0.186	+	2329	0.125	+	772	0.234
		31	CR							+	4619	0.11						
		34	CR				+	7573	0.172	+	4619	0.177	+	2329	0.161	+	772	0.178
		36	CR													*	772	-0.109
		39	MC	*	177	-0.148	*	7573	-0.127	*	4619	-0.102	*	2329	-0.177	*	772	-0.144
		43	MC	*	177	-0.126							*	2329	-0.106			
		46	MC	*	177	-0.132	*	7573	-0.141	*	4619	-0.189						
		47	CR										+	2329	0.124			
SCIENCE	5	16	MC													+	1224	0.111
		21	CR													*	1224	-0.156
		29	CR	*	672	-0.142	*	10029	-0.102				*	5957	-0.12	*	1224	-0.112
	8	1	MC							*	4773	-0.107						
		3	MC	+	260	0.104												
		22	CR	*	260	-0.197												
		24	CR				+	8734	0.259	+	4773	0.252	+	3549	0.28	+	665	0.168
		33	CR	*	260	-0.121												
		37	CR													*	665	-0.139
		60	MC	+	260	0.13												
		82	CR	*	260	-0.129												
	10	21	CR	+	178	0.277	+	7584	0.241	+	4619	0.238	+	2332	0.28	+	782	0.163
		24	CR				+	7584	0.166	+	4619	0.214	+	2332	0.205	*	782	-0.251
		26	CR	+	178	0.111												
		29	CR													*	782	-0.135
		36	CR													*	782	-0.117
		42	MC													+	782	0.128
		65	CR													*	782	-0.174
		68	CR							*	4619	-0.107						

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group (continued)

				Language Proficiency Focal Group														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	3	1B	CR	*	559	-0.1												
		16	MC				*	10443	-0.101				*	7326	-0.122			
		17	MC	*	559	-0.212	*	10443	-0.144				*	7326	-0.161	*	2268	-0.163
	4	2F	CR	*	780	-0.122												
		3A	CR	+	780	0.165												
		3B	CR	+	780	0.107												
		53	MC	+	780	0.332	+	10751	0.112				+	7055	0.131	+	2043	0.192
		63	MC	*	780	-0.128										*	2043	-0.117
		65	MC	*	780	-0.104												
		74	MC	+	780	0.219	+	10751	0.125				+	7055	0.135	+	2043	0.172
		79	MC	*	780	-0.109										*	2043	-0.148
		85	MC										*	7055	-0.101			
		87	MC	*	780	-0.169	*	10751	-0.1				*	7055	-0.123	*	2043	-0.134
	5	2D	CR													+	1209	0.115
		56	MC													*	1209	-0.147
		64	CR	+	692	0.158							+	5941	0.117	+	1209	0.11
		116	CR	+	692	0.158							+	5941	0.117	+	1209	0.11
		65	MC	+	692	0.104												
		69	MC	*	692	-0.215	*	10022	-0.131				*	5941	-0.169	*	1209	-0.242
		71	MC													*	1209	-0.149
		77	MC										*	5941	-0.103			
		78	MC	*	692	-0.111							*	5941	-0.123			
		94	CR	+	692	0.197	+	10022	0.112				+	5941	0.135	+	1209	0.281
	6	2C	CR													*	927	-0.127
		2E	CR	*	272	-0.191	*	9962	-0.141	*	4197	-0.118	*	5103	-0.167	*	927	-0.112
		51	MC	+	272	0.3										+	927	0.239
		54	MC	*	272	-0.122	*	9962	-0.126				*	5103	-0.173	*	927	-0.158
		55	MC													*	927	-0.133
		57	MC										*	5103	-0.116			
		58	MC	*	272	-0.11												
		78	MC	+	272	0.212							+	5103	0.122			
	7	2A	CR													*	775	-0.115
		2B	CR													*	775	-0.176
		3A	CR	+	270	0.111												
		3B	CR	+	270	0.114												
		48	MC	+	270	0.103	+	9365	0.111				+	4197	0.149	+	775	0.144

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group (continued)

				Language Proficiency Focal Group														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	7	56	MC										*	4197	-0.119	*	775	-0.14
		47	CR										*	4197	-0.119	*	775	-0.14
		61	MC										*	4197	-0.116			
		69	MC	+	270	0.116	+	9365	0.118				+	4197	0.166			
		83	MC	+	270	0.102							+	4197	0.109			
		89	CR	*	270	-0.142	*	9365	-0.131				*	4197	-0.181	*	775	-0.1
	8	2B	CR													*	670	-0.122
		2C	CR													*	670	-0.101
		2D	CR													+	670	0.119
		2F	CR	+	259	0.103												
		3A	CR	+	259	0.117							+	3553	0.137			
		51	MC	+	259	0.155	+	8752	0.101				+	3553	0.157	+	670	0.125
		63	MC	+	259	0.12							+	3553	0.127	+	670	0.118
		71	MC													*	670	-0.106
		73	MC	*	259	-0.201	*	8752	-0.177				*	3553	-0.283	*	670	-0.224
		75	MC	+	259	0.195	+	8752	0.121				+	3553	0.167			
		76	MC													*	670	-0.115
		90	MC				*	8752	-0.105	*	4781	-0.133						
		92	CR	*	259	-0.108				*	4781	-0.105						
	9	2F	CR	+	182	0.102												
		3B	CR													*	925	-0.107
		47	MC				+	8604	0.123				+	3025	0.188			
		52	MC	*	182	-0.109	*	8604	-0.157	*	4811	-0.104	*	3025	-0.24	*	925	-0.155
		53	MC	*	182	-0.162	*	8604	-0.165	*	4811	-0.192	*	3025	-0.163			
		54	MC	*	182	-0.128	*	8604	-0.118				*	3025	-0.179	*	925	-0.198
		60	MC													+	925	0.1
		66	MC				*	8604	-0.104	*	4811	-0.11	*	3025	-0.121			
		69	MC	+	182	0.156	+	8604	0.169	+	4811	0.124	+	3025	0.213	+	925	0.269
	10	2A	CR										*	2328	-0.134	*	773	-0.279
		2B	CR	+	177	0.114												
		2F	CR													*	773	-0.122
		3A	CR													*	773	-0.13
		3B	CR													*	773	-0.116
		65	MC							*	4610	-0.104	*	2328	-0.106			
		70	MC										*	2328	-0.118			
		72	CR	+	177	0.175	+	7564	0.14	+	4610	0.131	+	2328	0.19			

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Table 246. Items Flagged for DIF by Language Proficiency Focal Group (continued)

				Language Proficiency Focal Group														
				Bilingual			ESL			FEP			LEP			NEP		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	10	73	MC										*	2328	-0.101			
		75	MC													+	773	0.1
		85	MC													+	773	0.136
		88	MC	*	177	-0.123	*	7564	-0.116				*	2328	-0.163	*	773	-0.176
		93	MC													+	773	0.128
		95	CR	+	177	0.208	+	7564	0.173	+	4610	0.148	+	2328	0.236	+	773	0.151

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Table 247. Items Flagged for DIF by Education Plan Focal Group

				Education Plan Focal Group[1]											
				504			Gate			IEP			Title[1]		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	4	49	CR							*	5741	-0.108			
Mathematics	5	10	CR	*	405	-0.102									
Mathematics	5	17	CR							*	5968	-0.14			
Mathematics	5	35	CR							+	5968	0.102			
Mathematics	7	33	CR							*	5352	-0.107			
Mathematics	7	60	CR	*	628	-0.122				*	5352	-0.1			
Mathematics	8	4	CR	*	678	-0.111				*	4907	-0.103			
Mathematics	8	20	CR				+	1567	0.104						
Mathematics	8	34	CR	*	678	-0.106				*	4907	-0.108			
Mathematics	9	8	CR										*	3887	-0.13
Mathematics	9	20	CR				+	1632	0.102				+	3887	0.142
Mathematics	9	60	CR							*	4990	-0.102			
Mathematics	10	36	CR										*	3426	-0.129
Mathematics	10	40	CR				+	1548	0.147				+	3426	0.106
Reading	3	1	CR				*	738	-0.154						
Reading	3	25	CR	*	226	-0.234	*	738	-0.138						
Reading	3	26	CR				*	738	-0.22						
Reading	4	43	MC				*	1457	-0.102						
Reading	4	100	MC	*	322	-0.155									
Reading	5	102	MC	*	404	-0.113									
Reading	5	11	CR	*	404	-0.113									
Reading	5	103	MC	*	404	-0.157									
Reading	5	12	CR	*	404	-0.157									
Reading	5	43	CR	*	404	-0.138									
Reading	6	30	MC	*	589	-0.113									
Reading	6	6	CR	*	589	-0.113									
Reading	6	11	CR	*	589	-0.113									
Reading	6	35	MC	*	589	-0.113									
Reading	6	101	MC	*	589	-0.102									
Reading	6	116	MC	*	589	-0.103	*	1493	-0.164						
Reading	7	31	MC				*	1472	-0.131						
Reading	7	6	CR				*	1472	-0.131						
Reading	7	108	MC				*	1472	-0.109						
Reading	8	13	CR	*	672	-0.127									
Reading	8	31	MC	*	672	-0.127									
Reading	8	45	MC	*	672	-0.24				*	4901	-0.12	+	9056	0.129
Reading	8	97	MC	*	672	-0.104									
Reading	8	110	MC	*	672	-0.136				*	4901	-0.112			
Reading	9	4	CR	*	808	-0.106									
Reading	9	26	MC	*	808	-0.106									
Reading	9	106	MC	*	808	-0.132									

1 DIF is not reported for N less than 100. Flag +=favoring and *=disfavoring focal group.

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Table 247. Items Flagged for DIF by Education Plan (continued)

				Education Plan Focal Group											
				504			Gate			IEP			Title		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	10	96	CR	+	768	0.101									
Reading	10	4	MC	+	768	0.101									
Reading	10	97	MC	*	768	-0.121							+	3425	0.121
Reading	10	5	CR	*	768	-0.121							+	3425	0.121
Reading	10	11	CR										+	3425	0.117
Reading	10	103	MC										+	3425	0.117
Reading	10	28	CR										+	3425	0.159
Reading	10	29	CR	*	768	-0.126							+	3425	0.135
Reading	10	31	CR										+	3425	0.129
Reading	10	34	CR	*	768	-0.101							+	3425	0.171
Reading	10	51	CR				*	1547	-0.125						
Science	5	24	CR							*	5969	-0.115			
Science	5	29	CR	*	400	-0.106									
Science	5	55	CR							*	5969	-0.137			
Science	5	75	CR	*	400	-0.124									
Science	8	1	MC	+	676	0.121									
Science	8	24	CR	*	676	-0.208				*	4925	-0.249	+	8551	0.133
Science	10	21	CR	*	775	-0.177				*	4277	-0.181	+	3431	0.134
Writing	3	1C	CR	*	231	-0.102									
Writing	4	3A	CR	*	323	-0.129									
Writing	4	3B	CR							*	5719	-0.109			
Writing	4	90	MC							+	5719	0.103			
Writing	5	2F	CR							*	5942	-0.105			
Writing	5	3B	CR				*	1502	-0.109	*	5942	-0.109			
Writing	5	64	CR	*	404	-0.112									
Writing	5	116	CR	*	404	-0.112									
Writing	5	94	CR	*	404	-0.133									
Writing	6	78	MC	*	588	-0.123									
Writing	7	48	MC	*	624	-0.104									
Writing	9	47	MC	*	807	-0.117									
Writing	9	53	MC										*	3891	-0.114
Writing	10	2B	CR							*	4254	-0.125			
Writing	10	72	CR	*	766	-0.126									
Writing	10	95	CR	*	766	-0.101									

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Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch

				Focal Group[1]											
				Homeless			Immigrant			Migrant			Free Lunch		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	3	14	MC							*	280	-0.129			
	4	8	MC				+	630	0.105						
		15	CR				*	630	-0.196						
		27	MC				+	630	0.121						
		46	CR				+	630	0.131						
		68	MC				+	630	0.116						
	5	27	CR				+	546	0.137						
		43	MC				+	546	0.114						
		46	CR				*	546	-0.105						
		49	CR							*	270	-0.151			
		54	CR				+	546	0.144	+	270	0.208			
		60	CR				*	546	-0.101						
		69	CR				*	546	-0.151						
	6	2	MC				+	540	0.116						
		14	MC				*	540	-0.134						
		24	MC				+	540	0.114						
		43	CR				*	540	-0.224						
		53	MC				+	540	0.129						
	7	3	CR				+	534	0.138						
		7	CR				*	534	-0.193						
		11	CR				*	534	-0.171						
		29	CR				*	534	-0.107	*	247	-0.111			
		33	CR				*	534	-0.108						
		35	CR				+	534	0.105						
		46	MC				+	534	0.108						
		55	CR				+	534	0.241	+	247	0.128			
		60	CR				*	534	-0.136						
	8	8	CR				*	559	-0.168						
		24	CR				+	559	0.145						
		28	MC				+	559	0.122						
		40	CR				+	559	0.187	+	224	0.129			
		44	CR				*	559	-0.112						

[1] DIF is not reported for N less than 100. Flag +=favoring and *=disfavoring focal group.

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Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (continued)

				Focal Group[1]											
				Homeless			Immigrant			Migrant			Free Lunch		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
MATHEMATICS	8	46	MC				*	559	-0.1						
		48	CR				*	559	-0.39	*	224	-0.18			
		54	MC				*	559	-0.13						
	9	16	MC				*	597	-0.12						
		23	CR				+	597	0.16						
		25	MC				+	597	0.117						
		30	MC				+	597	0.122						
		33	MC				*	597	-0.11						
		35	CR				*	597	-0.17						
		40	CR				+	597	0.119						
		50	CR				*	597	-0.12						
		54	CR				*	597	-0.16						
	10	19	MC							*	182	-0.12			
		20	CR				+	586	0.14						
		28	CR				*	586	-0.14						
		48	CR				*	586	-0.14						
		52	CR				+	586	0.116						
		59	MC				+	586	0.107						
READING	3	4	MC							*	258	-0.13			
		25	CR				+	754	0.114						
		28	MC				*	754	-0.13	*	258	-0.13			
		35	CR				+	754	0.115	+	258	0.158			
	4	42	MC				+	564	0.108						
		22	CR				+	564	0.108						
		100	MC				+	564	0.108						
	5	34	MC				*	545	-0.11	*	269	-0.12			
		35	CR				+	545	0.104						
		43	CR				+	545	0.186	+	269	0.133			
	6	31	MC				*	542	-0.15						
		7	MC				*	542	-0.15						
		11	CR				+	542	0.259	+	250	0.212			
		35	MC				+	542	0.259	+	250	0.212			
		100	MC				*	542	-0.11						
		101	MC				+	542	0.149	+	250	0.126			
		103	MC							*	250	-0.1			
	7	5	CR				*	526	-0.13						

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Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (continued)

				Focal Group[1]											
				Homeless			Immigrant			Migrant			Free Lunch		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	7	30	MC				*	526	-0.128						
		12	CR				+	526	0.119	+	247	0.116			
		37	CR				+	526	0.119	+	247	0.116			
		95	MC				+	526	0.119						
	8	22	CR				*	549	-0.162						
		4	MC				*	549	-0.162						
		13	CR				+	549	0.164						
		31	MC				+	549	0.164						
		14	CR				*	549	-0.131						
		32	MC				*	549	-0.131						
		39	MC				+	549	0.105						
		44	MC							*	225	-0.109			
		45	MC				+	549	0.364	+	225	0.213	+	16950	0.117
		47	CR				+	549	0.117						
		97	MC				+	549	0.154						
		99	MC							+	225	0.151			
		101	MC							+	225	0.124			
		114	MC				*	549	-0.128	*	225	-0.116			
	9	4	CR				+	597	0.24						
		26	MC				+	597	0.24						
		7	CR				*	597	-0.131						
		29	CR				*	597	-0.131						
		10	MC							*	239	-0.101			
		32	MC							*	239	-0.101			
		35	MC							+	239	0.111			
		13	MC							+	239	0.111			
		98	CR				+	597	0.101						
		111	MC				+	597	0.167						
		112	CR				*	597	-0.198	*	239	-0.215			
		115	CR				+	597	0.13						
	10	96	CR							*	183	-0.113			
		4	MC							*	183	-0.113			
		97	MC				+	585	0.158				+	13525	0.108
		5	CR				+	585	0.158				+	13525	0.108
		100	MC				*	585	-0.158	*	183	-0.171			
		8	MC				*	585	-0.158	*	183	-0.171			

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Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (continued)

				Focal Group										
				Homeless			Immigrant			Migrant			Free Lunc	
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N
READING	10	102	MC				*	585	-0.101	*	183	-0.104		
		10	MC				*	585	-0.101	*	183	-0.104		
		12	MC				*	585	-0.118	*	183	-0.131		
		104	MC				*	585	-0.118	*	183	-0.131		
		105	MC				*	585	-0.123	*	183	-0.127		
		13	MC				*	585	-0.123	*	183	-0.127		
		28	CR							+	183	0.224		
		29	CR				+	585	0.324					
		30	MC							+	183	0.105		
		34	CR				+	585	0.201	+	183	0.122		
		39	MC				*	585	-0.184	*	183	-0.172		
		46	MC							*	183	-0.148		
SCIENCE	5	16	MC				+	551	0.103					
		21	CR				*	551	-0.132					
		29	CR							*	269	-0.112		
	8	24	CR				+	555	0.313					
		29	MC							+	225	0.117		
		33	CR				*	555	-0.101					
		37	CR				*	555	-0.105					
		45	MC							*	225	-0.119		
		69	MC				+	555	0.101					
	10	21	CR				+	587	0.163					
		24	CR				*	587	-0.224					
		28	MC							*	183	-0.11		
		36	CR				*	587	-0.138					
		65	CR				*	587	-0.145	*	183	-0.135		
		72	MC							+	183	0.137		
WRITING	3	16	MC							*	255	-0.122		
		17	MC				*	745	-0.162	*	255	-0.148		
	4	55	MC				*	567	-0.102					
		63	MC				*	567	-0.101					
		74	MC				+	567	0.121	+	292	0.147		
		79	MC				*	567	-0.159					
		87	MC				*	567	-0.132	*	292	-0.13		

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Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (continued)

				Focal Group											
				Homeless			Immigrant			Migrant			Free Lunch		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	5	3A	CR				+	545	0.116						
		56	MC				*	545	-0.117						
		64	CR				+	545	0.105						
		116	CR				+	545	0.105						
		69	MC				*	545	-0.247	*	269	-0.153			
		71	MC				*	545	-0.114	*	269	-0.102			
		78	MC							*	269	-0.125			
		94	CR							+	269	0.173			
	6	2E	CR				*	545	-0.157	*	252	-0.111			
		54	MC				*	545	-0.173	*	252	-0.146			
		55	MC				*	545	-0.113						
		57	MC				*	545	-0.12						
		60	MC							*	252	-0.111			
	7	2B	CR				*	530	-0.187						
		48	MC				+	530	0.104	+	248	0.171			
		56	MC				*	530	-0.17	*	248	-0.106			
		47	CR				*	530	-0.17	*	248	-0.106			
		69	MC							+	248	0.116			
		73	MC							*	248	-0.101			
		83	MC				+	530	0.175						
		88	MC				*	530	-0.115						
		89	CR				*	530	-0.153	*	248	-0.13			
	8	2F	CR				+	552	0.111	+	225	0.103			
		51	MC							+	225	0.196			
		57	MC							*	225	-0.108			
		63	MC				+	552	0.122	+	225	0.109			
		71	MC				*	552	-0.113						
		73	MC				*	552	-0.292	*	225	-0.204			
		86	MC				+	552	0.109						
		92	CR							*	225	-0.128			
	9	2F	CR				+	597	0.106						
		52	MC				*	597	-0.177	*	240	-0.214			
		53	MC				*	597	-0.105	*	240	-0.143			
		54	MC				*	597	-0.24	*	240	-0.145			
		56	MC				+	597	0.119						
		62	MC				+	597	0.102						

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Table 248. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (continued)

				Focal Group											
				Homeless			Immigrant			Migrant			Free Lunch		
Content	Grade	Item #	Item Type	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
WRITING	9	67	MC							+	240	0.102			
		69	MC				+	597	0.242	+	240	0.173			
		84	MC				+	597	0.108						
	10	2A	CR				*	582	-0.244	*	183	-0.145			
		55	MC				+	582	0.104						
		72	CR							+	183	0.14			
		73	MC				*	582	-0.139						
		77	MC				+	582	0.117						
		85	MC				+	582	0.104						
		88	MC				*	582	-0.196	*	183	-0.185			
		93	MC				+	582	0.114						
		95	CR				+	582	0.166	+	183	0.223			

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Table 249. Intercorrelations among Content Areas (Scale Scores)

Grade	Content Area	Reading	Writing	Mathematics	Science
3	Reading	1.000	0.770	0.728	
	Writing	0.770	1.000	0.759	
	Mathematics	0.728	0.759	1.000	
4	Reading	1.000	0.809	0.766	
	Writing	0.809	1.000	0.786	
	Mathematics	0.766	0.786	1.000	
5	Reading	1.000	0.829	0.778	0.827
	Writing	0.829	1.000	0.782	0.774
	Mathematics	0.778	0.782	1.000	0.837
	Science	0.827	0.774	0.837	1.000
6	Reading	1.000	0.844	0.790	
	Writing	0.844	1.000	0.781	
	Mathematics	0.790	0.781	1.000	
7	Reading	1.000	0.849	0.774	
	Writing	0.849	1.000	0.779	
	Mathematics	0.774	0.779	1.000	
8	Reading	1.000	0.845	0.762	0.833
	Writing	0.845	1.000	0.770	0.791
	Mathematics	0.762	0.770	1.000	0.842
	Science	0.833	0.791	0.842	1.000
9	Reading	1.000	0.855	0.770	
	Writing	0.855	1.000	0.777	
	Mathematics	0.770	0.777	1.000	
10	Reading	1.000	0.843	0.753	0.824
	Writing	0.843	1.000	0.754	0.783
	Mathematics	0.753	0.754	1.000	0.841
	Science	0.824	0.783	0.841	1.000

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Table 250. Intercorrelations among Content Areas (Percentile Ranks)

Grade	Content Area	Reading	Writing	Mathematics	Science
3	Reading	1.000	0.817	0.775	
	Writing	0.817	1.000	0.770	
	Mathematics	0.775	0.770	1.000	
4	Reading	1.000	0.859	0.799	
	Writing	0.859	1.000	0.791	
	Mathematics	0.799	0.791	1.000	
5	Reading	1.000	0.852	0.795	0.857
	Writing	0.852	1.000	0.783	0.773
	Mathematics	0.795	0.783	1.000	0.833
	Science	0.857	0.773	0.833	1.000
6	Reading	1.000	0.870	0.807	
	Writing	0.870	1.000	0.785	
	Mathematics	0.807	0.785	1.000	
7	Reading	1.000	0.865	0.784	
	Writing	0.865	1.000	0.786	
	Mathematics	0.784	0.786	1.000	
8	Reading	1.000	0.861	0.766	0.845
	Writing	0.861	1.000	0.772	0.795
	Mathematics	0.766	0.772	1.000	0.849
	Science	0.845	0.795	0.849	1.000
9	Reading	1.000	0.878	0.781	
	Writing	0.878	1.000	0.788	
	Mathematics	0.781	0.788	1.000	
10	Reading	1.000	0.870	0.774	0.841
	Writing	0.870	1.000	0.765	0.797
	Mathematics	0.774	0.765	1.000	0.854
	Science	0.841	0.797	0.854	1.000

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Table 251. Intercorrelations with Demographic Variables

Content	Grade	Language	Age	Gender	Am.Indian/ AK Native	Asian	Black	Hispanic
Mathematics	03	English	-0.053	0.035	-0.033	0.068	-0.132	-0.312
Mathematics	04	English	-0.089	0.021	-0.040	0.073	-0.123	-0.290
Mathematics	05	English	-0.117	0.003	-0.046	0.080	-0.127	-0.274
Mathematics	06	English	-0.134	-0.025	-0.041	0.087	-0.121	-0.282
Mathematics	07	English	-0.166	-0.013	-0.038	0.091	-0.114	-0.297
Mathematics	08	English	-0.176	0.013	-0.037	0.087	-0.126	-0.287
Mathematics	09	English	-0.258	0.000	-0.039	0.072	-0.141	-0.297
Mathematics	10	English	-0.240	0.019	-0.041	0.070	-0.140	-0.290
Reading	03	English	-0.077	-0.100	-0.029	0.042	-0.102	-0.293
Reading	04	English	-0.095	-0.105	-0.027	0.036	-0.091	-0.297
Reading	05	English	-0.117	-0.112	-0.042	0.044	-0.099	-0.285
Reading	06	English	-0.123	-0.136	-0.035	0.049	-0.090	-0.304
Reading	07	English	-0.153	-0.151	-0.031	0.046	-0.093	-0.300
Reading	08	English	-0.162	-0.152	-0.030	0.041	-0.095	-0.301
Reading	09	English	-0.238	-0.166	-0.032	0.037	-0.108	-0.300
Reading	10	English	-0.224	-0.167	-0.029	0.030	-0.104	-0.269
Reading	03	Spanish	-0.076	-0.145	0.012		-0.068	-0.004
Reading	04	Spanish	-0.186	0.043	0.043			-0.111
Science	05	English	-0.082	0.032	-0.041	0.037	-0.139	-0.347
Science	08	English	-0.156	0.015	-0.035	0.050	-0.131	-0.333
Science	10	English	-0.221	0.013	-0.035	0.028	-0.128	-0.332
Writing	03	English	-0.084	-0.160	-0.034	0.049	-0.097	-0.262
Writing	04	English	-0.098	-0.166	-0.039	0.051	-0.088	-0.300
Writing	05	English	-0.126	-0.171	-0.049	0.061	-0.086	-0.269
Writing	06	English	-0.133	-0.175	-0.043	0.064	-0.091	-0.278
Writing	07	English	-0.162	-0.198	-0.035	0.066	-0.091	-0.303
Writing	08	English	-0.175	-0.213	-0.036	0.063	-0.094	-0.294
Writing	09	English	-0.248	-0.215	-0.040	0.040	-0.109	-0.293
Writing	10	English	-0.236	-0.198	-0.036	0.041	-0.100	-0.292
Writing	03	Spanish	-0.047	-0.204	-0.004		-0.010	-0.001
Writing	04	Spanish	-0.185	-0.071	-0.072			-0.060

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Table 252. Predictive Validity Coefficients

Content Area	Grade in 2009	Grade in 2010	Number Matched	Reliability 2009	Reliability 2010	Correlation $r_{2009\text{-}2010}$	Validity Coefficient
Mathematics	03	04	57693	0.94	0.94	0.82	0.88
Mathematics	04	05	56490	0.94	0.94	0.87	0.93
Mathematics	05	06	55399	0.94	0.93	0.88	0.94
Mathematics	06	07	54128	0.94	0.93	0.90	0.96
Mathematics	07	08	53525	0.94	0.93	0.90	0.96
Mathematics	08	09	53478	0.93	0.93	0.89	0.96
Mathematics	09	10	50745	0.93	0.92	0.89	0.96
Reading	03	04	56047	0.93	0.94	0.82	0.87
Reading	04	05	56028	0.93	0.93	0.87	0.93
Reading	05	06	55071	0.93	0.93	0.86	0.93
Reading	06	07	54012	0.93	0.92	0.86	0.93
Reading	07	08	53650	0.92	0.92	0.86	0.94
Reading	08	09	53852	0.93	0.93	0.85	0.92
Reading	09	10	51360	0.94	0.93	0.83	0.89
Spanish Reading	03	04	45	0.93	0.91	0.78	0.84
Writing	03	04	56185	0.92	0.91	0.75	0.82
Writing	04	05	56320	0.90	0.91	0.77	0.85
Writing	05	06	55265	0.91	0.91	0.79	0.87
Writing	06	07	54437	0.91	0.91	0.79	0.86
Writing	07	08	53918	0.90	0.91	0.80	0.89
Writing	08	09	54038	0.92	0.91	0.81	0.89
Writing	09	10	51588	0.91	0.92	0.79	0.86
Spanish Writing	03	04	45	0.87	0.85	0.74	0.86

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Table 253. Classification Consistency and Classification Accuracy for Mathematics Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0410	0.0212	0.0005	0.0000	0.0626
Partially Proficient	0.0181	0.1226	0.0455	0.0000	0.1863
Proficient	0.0000	0.0434	0.2801	0.0610	0.3846
Advanced	0.0000	0.0000	0.0551	0.3115	0.3665
Sum	0.0591	0.1872	0.3812	0.3725	1.0000
Observed Score Dist.	0.0788	0.2110	0.3818	0.3284	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9603	0.9105	0.8839	0.7552
Chance Probability (Pc)	0.8857	0.6274	0.5340	0.3217
Kappa	0.6523	0.7599	0.7509	0.6391
Classification Accuracy	0.9726	0.9359	0.9173	0.8258

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Table 254. Classification Consistency and Classification Accuracy for Mathematics Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0429	0.0126	0.0000	0.0000	0.0555
Partially Proficient	0.0137	0.1425	0.0357	0.0000	0.1919
Proficient	0.0000	0.0352	0.3351	0.0510	0.4213
Advanced	0.0000	0.0000	0.0555	0.2758	0.3313
Sum	0.0565	0.1903	0.4263	0.3268	1.0000
Observed Score Dist.	0.0840	0.2093	0.4162	0.2905	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9737	0.9291	0.8935	0.7963
Chance Probability (Pc)	0.8943	0.6279	0.5584	0.3276
Kappa	0.7515	0.8094	0.7588	0.6971
Classification Accuracy	0.9822	0.9510	0.9260	0.8592

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Table 255. Classification Consistency and Classification Accuracy for Mathematics Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0466	0.0132	0.0000	0.0000	0.0598
Partially Proficient	0.0157	0.1804	0.0381	0.0000	0.2342
Proficient	0.0000	0.0427	0.3061	0.0354	0.3842
Advanced	0.0000	0.0000	0.0451	0.2768	0.3218
Sum	0.0622	0.2363	0.3893	0.3122	1.0000
Observed Score Dist.	0.0880	0.2525	0.3744	0.2851	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9711	0.9192	0.9195	0.8099
Chance Probability (Pc)	0.8854	0.5830	0.5669	0.3091
Kappa	0.7480	0.8063	0.8142	0.7248
Classification Accuracy	0.9785	0.9444	0.9452	0.8681

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Table 256. Classification Consistency and Classification Accuracy for Mathematics Grade 6

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0820	0.0215	0.0000	0.0000	0.1034
Partially Proficient	0.0234	0.1750	0.0516	0.0004	0.2505
Proficient	0.0000	0.0477	0.2895	0.0379	0.3750
Advanced	0.0000	0.0000	0.0391	0.2320	0.2711
Sum	0.1054	0.2442	0.3802	0.2702	1.0000
Observed Score Dist.	0.1254	0.2553	0.3691	0.2502	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9551	0.9003	0.9226	0.7784
Chance Probability (Pc)	0.8130	0.5440	0.6052	0.2879
Kappa	0.7599	0.7815	0.8040	0.6888
Classification Accuracy	0.9662	0.9341	0.9440	0.8444

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Table 257. Classification Consistency and Classification Accuracy for Mathematics Grade 7

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1261	0.0338	0.0000	0.0000	0.1599
Partially Proficient	0.0355	0.2561	0.0399	0.0000	0.3315
Proficient	0.0000	0.0407	0.2162	0.0340	0.2908
Advanced	0.0000	0.0000	0.0298	0.1880	0.2178
Sum	0.1616	0.3306	0.2859	0.2219	1.0000
Observed Score Dist.	0.1781	0.3315	0.2824	0.2081	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9307	0.9195	0.9362	0.7863
Chance Probability (Pc)	0.7302	0.5001	0.6569	0.2669
Kappa	0.7431	0.8389	0.8140	0.7086
Classification Accuracy	0.9503	0.9374	0.9535	0.8412

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Table 258. Classification Consistency and Classification Accuracy for Mathematics Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1438	0.0415	0.0000	0.0000	0.1854
Partially Proficient	0.0386	0.1953	0.0482	0.0000	0.2822
Proficient	0.0000	0.0459	0.2065	0.0359	0.2883
Advanced	0.0000	0.0007	0.0366	0.2068	0.2441
Sum	0.1825	0.2834	0.2914	0.2427	1.0000
Observed Score Dist.	0.1967	0.2867	0.2868	0.2299	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9199	0.9052	0.9267	0.7525
Chance Probability (Pc)	0.6998	0.5022	0.6317	0.2571
Kappa	0.7330	0.8095	0.8010	0.6668
Classification Accuracy	0.9452	0.9331	0.9538	0.8321

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Table 259. Classification Consistency and Classification Accuracy for Mathematics Grade 9

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2447	0.0512	0.0003	0.0000	0.2962
Partially Proficient	0.0481	0.2005	0.0479	0.0000	0.2965
Proficient	0.0000	0.0383	0.1964	0.0230	0.2578
Advanced	0.0000	0.0000	0.0284	0.1212	0.1495
Sum	0.2928	0.2900	0.2730	0.1442	1.0000
Observed Score Dist.	0.2989	0.3015	0.2599	0.1397	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9004	0.9135	0.9486	0.7628
Chance Probability (Pc)	0.5844	0.5154	0.7494	0.2646
Kappa	0.7602	0.8215	0.7949	0.6774
Classification Accuracy	0.9339	0.9404	0.9634	0.8377

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Table 260. Classification Consistency and Classification Accuracy for Mathematics Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2643	0.0424	0.0004	0.0000	0.3070
Partially Proficient	0.0573	0.2754	0.0385	0.0000	0.3712
Proficient	0.0000	0.0407	0.2052	0.0150	0.2609
Advanced	0.0000	0.0000	0.0141	0.0468	0.0609
Sum	0.3216	0.3585	0.2582	0.0618	1.0000
Observed Score Dist.	0.3192	0.3688	0.2567	0.0553	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9000	0.9204	0.9709	0.7916
Chance Probability (Pc)	0.5689	0.5642	0.8849	0.3029
Kappa	0.7680	0.8174	0.7469	0.7011
Classification Accuracy	0.9270	0.9436	0.9793	0.8500

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Table 261. Classification Consistency and Classification Accuracy for Reading Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0502	0.0121	0.0002	0.0000	0.0624
Partially Proficient	0.0143	0.0682	0.0272	0.0000	0.1096
Proficient	0.0000	0.0292	0.5756	0.0549	0.6597
Advanced	0.0000	0.0000	0.0641	0.1042	0.1683
Sum	0.0644	0.1094	0.6670	0.1591	1.0000
Observed Score Dist.	0.1140	0.1853	0.6389	0.0618	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9820	0.9580	0.9136	0.8535
Chance Probability (Pc)	0.8812	0.7139	0.7262	0.4828
Kappa	0.9735	0.9435	0.8810	0.7982
Classification Accuracy	0.7767	0.8024	0.5655	0.6097

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Table 262. Classification Consistency and Classification Accuracy for Reading Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0853	0.0145	0.0000	0.0000	0.0999
Partially Proficient	0.0197	0.1777	0.0443	0.0000	0.2417
Proficient	0.0000	0.0363	0.5540	0.0228	0.6132
Advanced	0.0000	0.0000	0.0217	0.0236	0.0453
Sum	0.1051	0.2286	0.6200	0.0464	1.0000
Observed Score Dist.	0.1010	0.2351	0.6294	0.0345	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9658	0.9194	0.9555	0.8407
Chance Probability (Pc)	0.8160	0.5527	0.9125	0.4480
Kappa	0.8138	0.8198	0.4919	0.7114
Classification Accuracy	0.9769	0.9451	0.9712	0.8932

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Table 263. Classification Consistency and Classification Accuracy for Reading Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0962	0.0222	0.0000	0.0000	0.1183
Partially Proficient	0.0200	0.1259	0.0367	0.0000	0.1826
Proficient	0.0000	0.0383	0.5220	0.0322	0.5924
Advanced	0.0000	0.0000	0.0346	0.0721	0.1066
Sum	0.1162	0.1864	0.5932	0.1042	1.0000
Observed Score Dist.	0.1131	0.1861	0.6120	0.0888	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9578	0.9251	0.9333	0.8162
Chance Probability (Pc)	0.7930	0.5786	0.8114	0.4103
Kappa	0.7962	0.8222	0.6462	0.6882
Classification Accuracy	0.9710	0.9461	0.9534	0.8705

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Table 264. Classification Consistency and Classification Accuracy for Reading Grade 6

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0765	0.0180	0.0004	0.0000	0.0949
Partially Proficient	0.0148	0.1318	0.0374	0.0000	0.1840
Proficient	0.0001	0.0322	0.5071	0.0408	0.5802
Advanced	0.0000	0.0000	0.0341	0.1067	0.1409
Sum	0.0914	0.1820	0.5791	0.1476	1.0000
Observed Score Dist.	0.0912	0.1810	0.5979	0.1299	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9667	0.9299	0.9250	0.8221
Chance Probability (Pc)	0.8311	0.6002	0.7531	0.3989
Kappa	0.8027	0.8248	0.6962	0.7040
Classification Accuracy	0.9772	0.9515	0.9464	0.8751

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Table 265. Classification Consistency and Classification Accuracy for Reading Grade 7

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0927	0.0224	0.0005	0.0000	0.1156
Partially Proficient	0.0161	0.1455	0.0416	0.0000	0.2033
Proficient	0.0003	0.0384	0.4976	0.0373	0.5737
Advanced	0.0000	0.0000	0.0366	0.0709	0.1074
Sum	0.1091	0.2063	0.5764	0.1082	1.0000
Observed Score Dist.	0.1088	0.2042	0.5943	0.0927	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9607	0.9191	0.9261	0.8067
Chance Probability (Pc)	0.8005	0.5668	0.8076	0.3968
Kappa	0.8031	0.8133	0.6158	0.6796
Classification Accuracy	0.9727	0.9388	0.9483	0.8598

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Table 266. Classification Consistency and Classification Accuracy for Reading Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0850	0.0205	0.0000	0.0000	0.1055
Partially Proficient	0.0202	0.1440	0.0431	0.0000	0.2072
Proficient	0.0000	0.0490	0.5050	0.0331	0.5871
Advanced	0.0000	0.0000	0.0334	0.0668	0.1002
Sum	0.1052	0.2134	0.5815	0.0999	1.0000
Observed Score Dist.	0.1034	0.2072	0.6029	0.0865	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9593	0.9080	0.9335	0.8008
Chance Probability (Pc)	0.8115	0.5679	0.8200	0.4067
Kappa	0.7843	0.7870	0.6304	0.6642
Classification Accuracy	0.9699	0.9333	0.9534	0.8566

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Table 267. Classification Consistency and Classification Accuracy for Reading Grade 9

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0640	0.0154	0.0000	0.0000	0.0794
Partially Proficient	0.0155	0.1826	0.0381	0.0000	0.2362
Proficient	0.0000	0.0358	0.5677	0.0230	0.6265
Advanced	0.0000	0.0000	0.0219	0.0360	0.0579
Sum	0.0795	0.2338	0.6277	0.0591	1.0000
Observed Score Dist.	0.0753	0.2327	0.6471	0.0449	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9691	0.9261	0.9551	0.8503
Chance Probability (Pc)	0.8537	0.5689	0.8899	0.4582
Kappa	0.7885	0.8286	0.5923	0.7236
Classification Accuracy	0.9789	0.9453	0.9676	0.8918

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Table 268. Classification Consistency and Classification Accuracy for Reading Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0797	0.0170	0.0000	0.0000	0.0966
Partially Proficient	0.0166	0.1564	0.0505	0.0000	0.2234
Proficient	0.0000	0.0454	0.5005	0.0321	0.5780
Advanced	0.0000	0.0000	0.0288	0.0731	0.1019
Sum	0.0962	0.2187	0.5798	0.1052	1.0000
Observed Score Dist.	0.0937	0.2195	0.5925	0.0943	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9665	0.9041	0.9390	0.8096
Chance Probability (Pc)	0.8257	0.5666	0.8143	0.4040
Kappa	0.8077	0.7788	0.6715	0.6806
Classification Accuracy	0.9774	0.9347	0.9582	0.8703

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Table 269. Classification Consistency and Classification Accuracy for Science Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0790	0.0220	0.0000	0.0000	0.1010
Partially Proficient	0.0272	0.3070	0.0546	0.0000	0.3888
Proficient	0.0000	0.0534	0.2671	0.0428	0.3633
Advanced	0.0000	0.0004	0.0379	0.1086	0.1469
Sum	0.1062	0.3828	0.3597	0.1514	1.0000
Observed Score Dist.	0.1353	0.3962	0.3402	0.1284	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9508	0.8916	0.9189	0.7617
Chance Probability (Pc)	0.8143	0.5002	0.7462	0.3124
Kappa	0.7349	0.7831	0.6806	0.6533
Classification Accuracy	0.9635	0.9230	0.9455	0.8321

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Table 270. Classification Consistency and Classification Accuracy for Science Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1789	0.0369	0.0003	0.0000	0.2160
Partially Proficient	0.0357	0.1919	0.0450	0.0000	0.2726
Proficient	0.0004	0.0449	0.3593	0.0232	0.4279
Advanced	0.0000	0.0000	0.0236	0.0599	0.0835
Sum	0.2149	0.2737	0.4283	0.0831	1.0000
Observed Score Dist.	0.2349	0.2763	0.4178	0.0710	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9268	0.9094	0.9531	0.7900
Chance Probability (Pc)	0.6619	0.5003	0.8473	0.3112
Kappa	0.7835	0.8187	0.6931	0.6951
Classification Accuracy	0.9496	0.9345	0.9650	0.8491

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Table 271. Classification Consistency and Classification Accuracy for Science Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2401	0.0407	0.0013	0.0000	0.2821
Partially Proficient	0.0403	0.1376	0.0513	0.0000	0.2292
Proficient	0.0011	0.0515	0.3469	0.0232	0.4227
Advanced	0.0000	0.0000	0.0195	0.0465	0.0660
Sum	0.2815	0.2298	0.4190	0.0697	1.0000
Observed Score Dist.	0.2899	0.2270	0.4251	0.0580	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9166	0.8947	0.9573	0.7711
Chance Probability (Pc)	0.5952	0.5003	0.8735	0.3138
Kappa	0.7939	0.7893	0.6628	0.6664
Classification Accuracy	0.9421	0.9248	0.9691	0.8362

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Table 272. Classification Consistency and Classification Accuracy for Writing Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0533	0.0191	0.0000	0.0000	0.0724
Partially Proficient	0.0179	0.3366	0.0600	0.0000	0.4145
Proficient	0.0000	0.0602	0.2991	0.0421	0.4014
Advanced	0.0000	0.0000	0.0462	0.0655	0.1118
Sum	0.0712	0.4158	0.4054	0.1076	1.0000
Observed Score Dist.	0.0670	0.4259	0.4215	0.0856	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9631	0.8798	0.9116	0.7545
Chance Probability (Pc)	0.8667	0.5003	0.8047	0.3522
Kappa	0.7229	0.7594	0.5475	0.6210
Classification Accuracy	0.9742	0.9136	0.9397	0.8275

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Table 273. Classification Consistency and Classification Accuracy for Writing Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0625	0.0210	0.0000	0.0000	0.0835
Partially Proficient	0.0211	0.3255	0.0573	0.0000	0.4039
Proficient	0.0000	0.0625	0.3112	0.0348	0.4085
Advanced	0.0000	0.0000	0.0344	0.0697	0.1041
Sum	0.0836	0.4090	0.4029	0.1045	1.0000
Observed Score Dist.	0.0786	0.4135	0.4214	0.0864	

Indices for Classification Consistency and Classification Accuracy

Category	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9579	0.8803	0.9307	0.7689
Chance Probability (Pc)	0.8468	0.5002	0.8132	0.3476
Kappa	0.7250	0.7604	0.6292	0.6457
Classification Accuracy	0.9688	0.9166	0.9516	0.8369

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Table 274. Classification Consistency and Classification Accuracy for Writing Grade 5

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0422	0.0156	0.0000	0.0000	0.0578
Partially Proficient	0.0164	0.2895	0.0549	0.0000	0.3608
Proficient	0.0000	0.0611	0.3635	0.0420	0.4665
Advanced	0.0000	0.0000	0.0394	0.0754	0.1149
Sum	0.0587	0.3661	0.4578	0.1174	1.0000
Observed Score Dist.	0.0527	0.3687	0.4825	0.0961	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9680	0.8840	0.9186	0.7706
Chance Probability (Pc)	0.8903	0.5122	0.7947	0.3625
Kappa	0.7083	0.7622	0.6036	0.6402
Classification Accuracy	0.9779	0.9188	0.9463	0.8431

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Table 275. Classification Consistency and Classification Accuracy for Writing Grade 6

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0380	0.0148	0.0000	0.0000	0.0528
Partially Proficient	0.0153	0.3066	0.0567	0.0000	0.3786
Proficient	0.0000	0.0577	0.3645	0.0358	0.4580
Advanced	0.0000	0.0000	0.0371	0.0735	0.1106
Sum	0.0533	0.3792	0.4582	0.1093	1.0000
Observed Score Dist.	0.0479	0.3756	0.4769	0.0996	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9698	0.8856	0.9271	0.7826
Chance Probability (Pc)	0.8995	0.5093	0.8043	0.3683
Kappa	0.7000	0.7669	0.6277	0.6558
Classification Accuracy	0.9785	0.9211	0.9507	0.8503

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Table 276. Classification Consistency and Classification Accuracy for Writing Grade 7

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0325	0.0139	0.0000	0.0000	0.0464
Partially Proficient	0.0127	0.3010	0.0545	0.0000	0.3682
Proficient	0.0000	0.0577	0.3414	0.0409	0.4400
Advanced	0.0000	0.0000	0.0381	0.1073	0.1454
Sum	0.0452	0.3726	0.4340	0.1482	1.0000
Observed Score Dist.	0.0413	0.3725	0.4576	0.1286	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9735	0.8878	0.9209	0.7822
Chance Probability (Pc)	0.9126	0.5140	0.7495	0.3518
Kappa	0.6962	0.7691	0.6843	0.6639
Classification Accuracy	0.9807	0.9178	0.9422	0.8408

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Table 277. Classification Consistency and Classification Accuracy for Writing Grade 8

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0225	0.0110	0.0000	0.0000	0.0335
Partially Proficient	0.0093	0.3073	0.0619	0.0000	0.3784
Proficient	0.0000	0.0603	0.3506	0.0413	0.4522
Advanced	0.0000	0.0000	0.0400	0.0958	0.1358
Sum	0.0318	0.3786	0.4525	0.1371	1.0000
Observed Score Dist.	0.0343	0.4082	0.4501	0.1075	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9797	0.8778	0.9186	0.7762
Chance Probability (Pc)	0.9368	0.5158	0.7643	0.3676
Kappa	0.6786	0.7477	0.6548	0.6461
Classification Accuracy	0.9858	0.9160	0.9442	0.8461

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Table 278. Classification Consistency and Classification Accuracy for Writing Grade 9

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0436	0.0157	0.0000	0.0000	0.0593
Partially Proficient	0.0164	0.3701	0.0525	0.0000	0.4390
Proficient	0.0000	0.0546	0.3293	0.0315	0.4154
Advanced	0.0000	0.0000	0.0261	0.0602	0.0863
Sum	0.0600	0.4404	0.4079	0.0917	1.0000
Observed Score Dist.	0.0546	0.4465	0.4245	0.0744	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9679	0.8929	0.9424	0.8031
Chance Probability (Pc)	0.8878	0.5000	0.8379	0.3743
Kappa	0.7136	0.7857	0.6447	0.6853
Classification Accuracy	0.9772	0.9239	0.9605	0.8617

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Table 279. Classification Consistency and Classification Accuracy for Writing Grade 10

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0756	0.0171	0.0000	0.0000	0.0927
Partially Proficient	0.0176	0.3416	0.0644	0.0000	0.4236
Proficient	0.0000	0.0549	0.2917	0.0347	0.3813
Advanced	0.0000	0.0000	0.0327	0.0697	0.1025
Sum	0.0932	0.4136	0.3888	0.1044	1.0000
Observed Score Dist.	0.0923	0.4215	0.3972	0.0890	

Indices for Classification Consistency and Classification Accuracy

	Cut1	Cut2	Cut3	All Cuts
Classification Agreement (P)	0.9654	0.8807	0.9326	0.7786
Chance Probability (Pc)	0.8314	0.5002	0.8145	0.3428
Kappa	0.7947	0.7612	0.6365	0.6632
Classification Accuracy	0.9735	0.9164	0.9526	0.8425

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Table 280. Classification Consistency and Classification Accuracy for Spanish Reading Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1402	0.0293	0.0016	0.0000	0.1711
Partially Proficient	0.0338	0.1201	0.0514	0.0000	0.2053
Proficient	0.0011	0.0557	0.3883	0.0493	0.4945
Advanced	0.0000	0.0000	0.0406	0.0885	0.1291
Sum	0.1751	0.2052	0.4819	0.1378	1.0000
Observed Score Dist.	0.1689	0.2004	0.5162	0.1145	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9342	0.8901	0.9101	0.7371
Chance Probability (P_c)	0.7137	0.5296	0.7687	0.3282
Kappa	0.7701	0.7665	0.6113	0.6087
Classification Accuracy	0.9511	0.9169	0.9378	0.8059

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Table 281. Classification Consistency and Classification Accuracy for Spanish Reading Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2899	0.0497	0.0003	0.0000	0.3399
Partially Proficient	0.0493	0.1740	0.0466	0.0000	0.2698
Proficient	0.0005	0.0479	0.3058	0.0105	0.3647
Advanced	0.0000	0.0000	0.0089	0.0166	0.0255
Sum	0.3397	0.2717	0.3617	0.0270	1.0000
Observed Score Dist.	0.3554	0.2771	0.3434	0.0241	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9002	0.9046	0.9806	0.7863
Chance Probability (P_c)	0.5513	0.5244	0.9489	0.3214
Kappa	0.7775	0.7995	0.6212	0.6851
Classification Accuracy	0.9285	0.9321	0.9876	0.8481

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Table 282. Classification Consistency and Classification Accuracy for Spanish Writing Grade 3

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1091	0.0318	0.0004	0.0000	0.1414
Partially Proficient	0.0300	0.1427	0.0577	0.0003	0.2307
Proficient	0.0005	0.0547	0.2686	0.0624	0.3862
Advanced	0.0000	0.0001	0.0599	0.1817	0.2417
Sum	0.1396	0.2294	0.3866	0.2444	1.0000
Observed Score Dist.	0.1332	0.2354	0.3975	0.2339	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9373	0.8863	0.8773	0.7022
Chance Probability (P_c)	0.7585	0.5335	0.6320	0.2810
Kappa	0.7404	0.7562	0.6666	0.5857
Classification Accuracy	0.9541	0.9218	0.9102	0.7862

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Table 283. Classification Consistency and Classification Accuracy for Spanish Writing Grade 4

Contingency Table with All Cut Scores

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.3844	0.0782	0.0010	0.0000	0.4636
Partially Proficient	0.0646	0.1973	0.0445	0.0000	0.3065
Proficient	0.0010	0.0519	0.1642	0.0040	0.2210
Advanced	0.0000	0.0000	0.0036	0.0053	0.0089
Sum	0.4500	0.3274	0.2133	0.0093	1.0000
Observed Score Dist.	0.3313	0.3976	0.2530	0.0181	

Indices for Classification Consistency and Classification Accuracy

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8552	0.9016	0.9924	0.7512
Chance Probability (P_c)	0.5036	0.6499	0.9820	0.3562
Kappa	0.7082	0.7191	0.5801	0.6136
Classification Accuracy	0.8995	0.9316	0.9943	0.8254

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Table 284. Mean and Median Scale Scores by Year for Writing Subcontent Areas: Paragraph Writing and Extended Writing

			Paragraph Writing (SA5)			Extended Writing (SA6)			Combine SA5 and SA6		
Grade	Year	N	Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
4	2002	55488	489	491	72.8	504	486	99.3	488	485	60.3
4	2003	55108	486	479	73.5	497	479	91.7	486	486	64.7
4	2004	54546	492	490	65.9	517	505	107.6	492	489	59.5
4	2005	54339	494	486	74.3	504	516	98.6	490	488	64.8
4	2006	55640	486	488	66.1	510	495	109.6	486	484	60.3
4	2007	56278	487	481	64.5	494	479	87.8	485	482	58.9
4	2008	57957	489	487	64.7	517	495	112.7	489	487	59.5
4	2009	59548	487	485	64.0	504	527	106.7	486	484	60.9
4	2010	61099	487	486	64.7	501	490	97.2	486	485	59.9
5	2002	56398	503	503	66.0	518	503	105.8	502	501	60.4
5	2003	56822	503	504	72.3	531	500	121.1	504	503	65.3
5	2004	55946	505	500	73.5	525	508	107.7	507	505	66.4
5	2005	55191	512	509	70.5	543	525	130.2	510	506	65.5
5	2006	55800	513	511	72.7	533	484	114.2	514	511	69.4
5	2007	56704	509	507	65.9	531	538	112.9	508	506	62.4
5	2008	57019	512	510	75.2	535	536	120.2	512	510	71.6
5	2009	58785	510	509	65.9	536	532	117.3	510	508	63.1
5	2010	59745	509	507	74.0	521	504	100.2	508	508	66.8
6	2002	55632	518	518	76.1	528	529	95.2	518	518	68.4
6	2003	56674	521	521	71.2	549	524	123.8	523	523	67.5
6	2004	56744	523	522	73.7	559	547	134.6	524	521	70.1
6	2005	56200	532	527	82.8	536	496	106.2	529	528	74.0
6	2006	56097	531	526	82.9	542	490	116.2	529	526	76.5
6	2007	56380	530	527	80.0	539	600	104.0	529	528	74.6
6	2008	56901	533	530	83.4	558	538	138.4	531	526	78.1
6	2009	57379	530	528	73.9	545	576	114.9	529	528	69.2
6	2010	58856	527	524	80.8	535	522	103.5	525	523	71.6
7	2002	54338	544	541	79.8	558	542	106.0	543	541	70.3
7	2003	56609	544	546	78.9	580	554	141.4	547	548	73.9
7	2004	57016	546	543	94.4	574	557	147.7	545	542	85.5
7	2005	57201	551	546	90.2	552	503	113.6	548	545	82.7
7	2006	57323	550	548	91.5	577	577	145.3	550	549	83.8
7	2007	56769	561	555	88.8	573	648	105.0	560	556	82.5
7	2008	56813	553	550	89.0	580	572	142.7	553	554	83.1
7	2009	57395	562	557	84.1	575	622	118.3	561	559	78.8
7	2010	57773	556	552	88.1	575	588	133.8	555	554	81.7

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Table 284. Mean and Median Scale Scores by Year for Writing Subcontent Areas: Paragraph Writing and Extended Writing (Concluded)

			Paragraph Writing (SA5)			Extended Writing (SA6)			Combine SA5 and SA6		
Grade	Year	N	Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
8	2002	53466	554	551	85.9	586	586	124.3	558	557	76.0
8	2003	54894	555	556	82.4	590	592	136.5	558	558	79.4
8	2004	56410	556	555	90.1	576	583	142.1	554	553	84.4
8	2005	56821	559	557	87.4	572	558	127.7	558	555	82.1
8	2006	58095	560	558	87.6	557	552	125.0	556	556	83.1
8	2007	57631	563	559	94.0	577	601	119.5	562	556	86.6
8	2008	56658	564	561	91.9	580	612	131.2	563	562	87.8
8	2009	57100	564	559	87.3	582	587	116.2	563	561	79.1
8	2010	57103	566	566	83.5	615	567	168.4	566	564	79.7
9	2002	52972	563	563	92.0	581	637	121.7	564	564	87.2
9	2003	55540	572	570	98.0	611	593	157.0	573	569	90.9
9	2004	56588	571	569	94.8	580	545	94.6	572	572	79.7
9	2005	57703	569	569	96.1	576	524	104.9	568	564	84.8
9	2006	58795	570	570	96.1	568	536	105.2	567	561	88.0
9	2007	59521	569	564	97.3	580	635	124.1	567	563	89.1
9	2008	59076	567	563	98.2	569	498	448.8	565	559	90.0
9	2009	58939	572	567	95.9	590	616	130.3	570	568	87.3
9	2010	59098	565	562	97.7	614	575	180.1	565	560	92.9
10	2002	49009	587	588	96.7	606	580	138.4	586	585	88.8
10	2003	49658	591	583	107.6	641	590	185.8	589	583	100.0
10	2004	50756	584	577	96.7	588	537	117.2	581	578	84.8
10	2005	51638	580	576	97.5	582	529	111.0	578	575	88.2
10	2006	53754	584	581	101.2	586	523	112.1	581	578	91.1
10	2007	54683	586	579	104.9	594	649	123.2	583	583	94.0
10	2008	55306	579	572	109.3	590	635	142.5	577	573	100.9
10	2009	55818	584	578	102.3	596	638	119.7	582	581	91.7
10	2010	55225	580	574	109.1	616	604	179.3	578	573	102.7

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