

## Figures

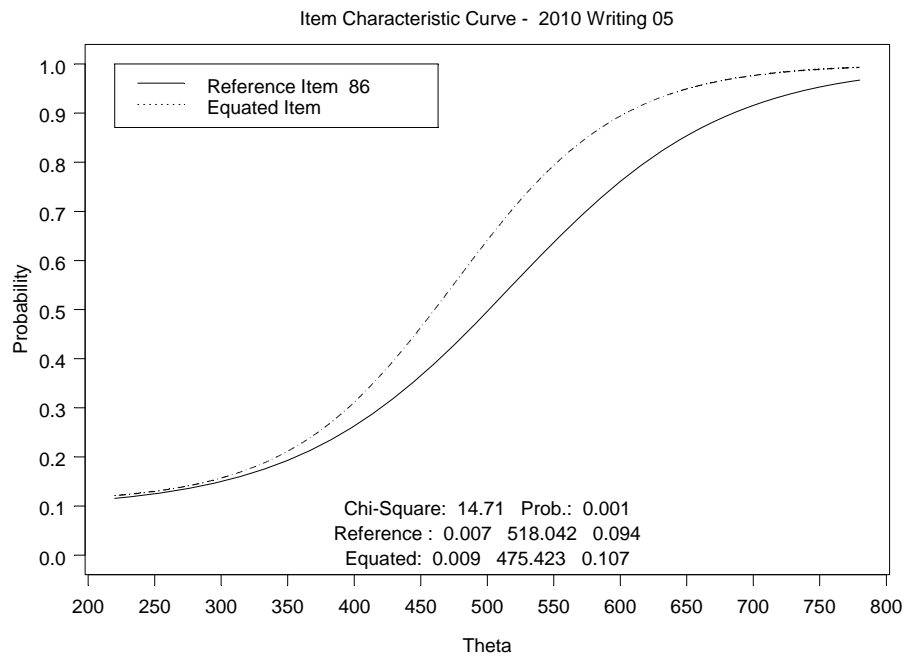
Figure 1. Item Characteristic Curves for Writing Grade 5 Anchor Item 86 .....	481
Figure 2. Item Characteristic Curves for Writing Grade 6 Anchor Item 57 .....	482
Figure 3. Item Characteristic Curves for Writing Grade 8 Anchor Item 68 .....	483
Figure 4. CSAP Grade 3 Reading Operational Tests .....	484
Figure 5. CSAP Grade 4 Reading Operational Tests .....	485
Figure 6. CSAP Grade 5 Reading Operational Tests .....	486
Figure 7. CSAP Grade 6 Reading Operational Test .....	487
Figure 8. CSAP Grade 7 Reading Operational Tests .....	488
Figure 9. CSAP Grade 8 Reading Operational Tests .....	489
Figure 10. CSAP Grade 9 Reading Operational Tests .....	490
Figure 11. CSAP Grade 10 Reading Operational Tests .....	491
Figure 12. CSAP Grade 3 Writing Operational Tests.....	492
Figure 13. CSAP Grade 4 Writing Operational Tests.....	493
Figure 14. CSAP Grade 5 Writing Operational Tests.....	494
Figure 15. CSAP Grade 6 Writing Operational Tests.....	495
Figure 16. CSAP Grade 7 Writing Operational Tests.....	496
Figure 17. CSAP Grade 8 Writing Operational Tests.....	497
Figure 18. CSAP Grade 9 Writing Operational Tests.....	498
Figure 19. CSAP Grade 10 Writing Operational Tests.....	499
Figure 20. CSAP Grade 3 Mathematics Operational Tests. ....	500
Figure 21. CSAP Grade 4 Mathematics Operational Tests. ....	501
Figure 22. CSAP Grade 5 Mathematics Operational Tests. ....	502
Figure 23. CSAP Grade 6 Mathematics Operational Tests. ....	503
Figure 24. CSAP Grade 7 Mathematics Operational Tests. ....	504
Figure 25. CSAP Grade 8 Mathematics Operational Tests. ....	505
Figure 26. CSAP Grade 9 Mathematics Operational Tests. ....	506
Figure 27. CSAP Grade 10 Mathematics Operational Tests .....	507
Figure 28. CSAP Grade 5 Science Operational Tests .....	508
Figure 29. CSAP Grade 8 Science Operational Tests .....	509
Figure 30. CSAP Grade 10 Science Operational Tests .....	510
Figure 31. CSAP Grade 3 Spanish Reading Operational Tests.....	511
Figure 32. CSAP Grade 4 Spanish Reading Operational Tests.....	512
Figure 33. CSAP Grade 3 Spanish Writing Operational Tests.....	513
Figure 34. CSAP Grade 4 Spanish Writing Operational Tests.....	514
Figure 35. Reading 3 Scale Score Distributions for the Total Population, Female, and Male Students.....	515
Figure 36. Spanish Reading 3 Scale Score Distributions for the Total Population, Female, and Male Students .....	516
Figure 37. Writing 3 Scale Score Distributions for the Total Population, Female, and Male Students.....	517
Figure 38. Spanish Writing 3 Scale Score Distributions for the Total Population, Female, and Male Students .....	518

Figure 39. Mathematics 3 Scale Score Distributions for the Total Population, Female, and Male Students.....	519
Figure 40. Reading 4 Scale Score Distributions for the Total Population, Female, and Male Students.....	520
Figure 41. Spanish Reading 4 Scale Score Distributions for the Total Population, Female, and Male Students.....	521
Figure 42. Writing 4 Scale Score Distributions for the Total Population, Female, and Male Students.....	522
Figure 43. Spanish Writing 4 Scale Score Distributions for the Total Population, Female, and Male Students.....	523
Figure 44. Mathematics 4 Scale Score Distributions for the Total Population, Female, and Male Students.....	524
Figure 45. Reading 5 Scale Score Distributions for the Total Population, Female, and Male Students.....	525
Figure 46. Writing 5 Scale Score Distributions for the Total Population, Female, and Male Students.....	526
Figure 47. Mathematics 5 Scale Score Distributions for the Total Population, Female, and Male Students.....	527
Figure 48. Science 5 Scale Score Distributions for the Total Population, Female and Male Students.....	528
Figure 49. Reading 6 Scale Score Distributions for the Total Population, Female, and Male Students.....	529
Figure 50. Writing 6 Scale Score Distributions for the Total Population, Female, and Male Students.....	530
Figure 51. Mathematics 6 Scale Score Distributions for the Total Population, Female, and Male Students.....	531
Figure 52. Reading 7 Scale Score Distributions for the Total Population, Female, and Male Students.....	532
Figure 53. Writing 7 Scale Score Distributions for the Total Population, Female, and Male Students.....	533
Figure 54. Mathematics 7 Scale Score Distributions for the Total Population, Female and Male Students.....	534
Figure 55. Reading 8 Scale Score Distributions for the Total Population, Female, and Male Students.....	535
Figure 56. Writing 8 Scale Score Distributions for the Total Population, Female, and Male Students.....	537
Figure 57. Mathematics 8 Scale Score Distributions for the Total Population, Female, and Male Students.....	538
Figure 58. Science 8 Scale Score Distributions for the Total Population, Female, and Male Students.....	539
Figure 59. Reading 9 Scale Score Distributions for the Total Population, Female, and Male Students.....	540
Figure 60. Writing 9 Scale Score Distributions for the Total Population, Female, and Male Students.....	541
Figure 61. Mathematics 9 Scale Score Distributions for the Total Population, Female, and Male Students.....	542

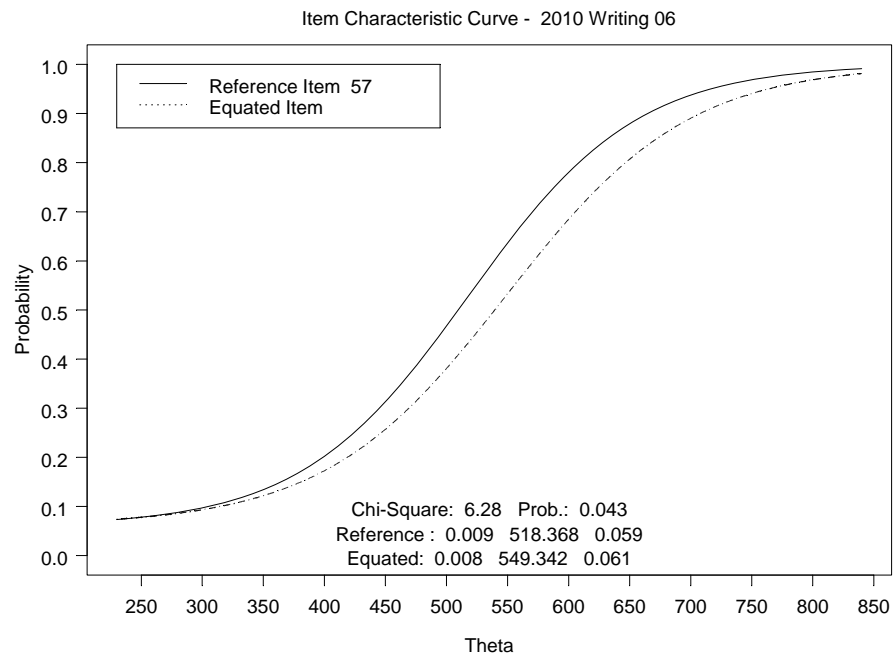
Figure 62. Reading 10 Scale Score Distributions for the Total Population, Female, and Male Students.....	543
Figure 63. Writing 10 Scale Score Distributions for the Total Population, Female, and Male Students.....	544
Figure 64. Mathematics 10 Scale Score Distributions for the Total Population, Female, and Male Students.....	545
Figure 65. Science 10 Scale Score Distributions for the Total Population, Female, and Male Students.....	546
Figure 66. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 3.....	547
Figure 67. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Reading Grade 3 .....	548
Figure 68. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 4.....	549
Figure 69. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Reading Grade 4 .....	550
Figure 70. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 5.....	551
Figure 71. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 6.....	552
Figure 72. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 7.....	553
Figure 73. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 8.....	554
Figure 74. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 9.....	555
Figure 75. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 10.....	556
Figure 76. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 3.....	557
Figure 77. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Writing Grade 3.....	558
Figure 78. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 4.....	559
Figure 79. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Writing Grade 4.....	560
Figure 80. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 5.....	561
Figure 81. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 6.....	562
Figure 82. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 7.....	563
Figure 83. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 8.....	564
Figure 84. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 9.....	565

Figure 85. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 10.....	566
Figure 86. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 3.....	567
Figure 87. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 4.....	568
Figure 88. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 5.....	569
Figure 89. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 6.....	570
Figure 90. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 7.....	571
Figure 91. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 8.....	572
Figure 92. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 9.....	573
Figure 93. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 10.....	574
Figure 94. Eigenvalues and Proportions of Variance by Factor for CSAP Science Grade 5.....	575
Figure 95. Eigenvalues and Proportions of Variance by Factor for CSAP Science Grade 8.....	576
Figure 96. Eigenvalues and Proportions of Variance by Factor for CSAP Science Grade 10.....	577
Figure 97. Median Scale Scores by Year for Writing Subcontent Areas: Grade 4...	578
Figure 98. Median Scale Scores by Year for Writing Subcontent Areas: Grade 5...	578
Figure 99. Median Scale Scores by Year for Writing Subcontent Areas: Grade 6...	579
Figure 100. Median Scale Scores by Year for Writing Subcontent Areas: Grade 7...	579
Figure 101. Median Scale Scores by Year for Writing Subcontent Areas: Grade 8...	580
Figure 102. Median Scale Scores by Year for Writing Subcontent Areas: Grade 9...	580
Figure 103. Median Scale Scores by Year for Writing Subcontent Areas: Grade 10.....	581

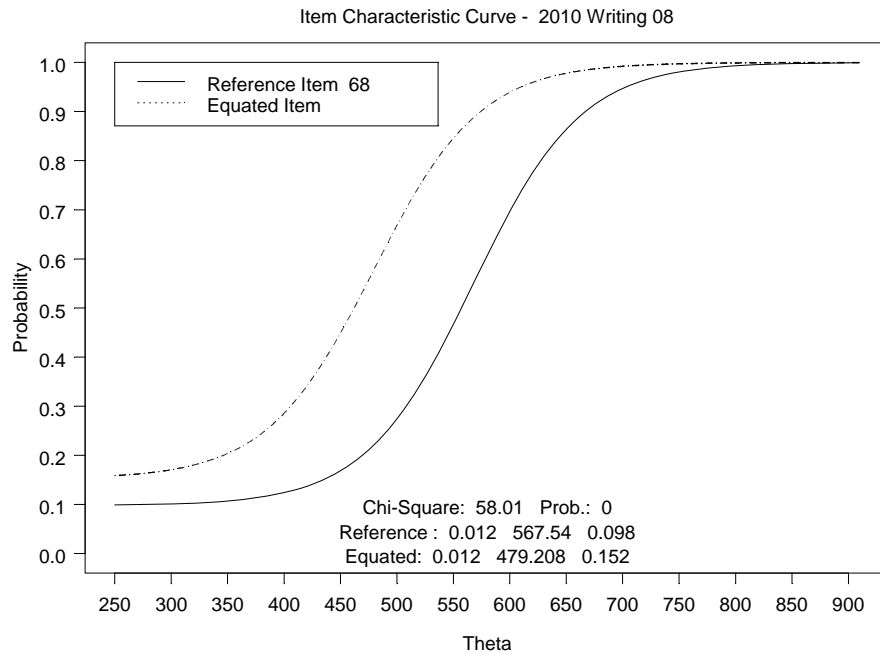
**Figure 1. Item Characteristic Curves for Writing Grade 5 Anchor Item 86  
Unanchored from the Equating of the Operational Test**



**Figure 2. Item Characteristic Curves for Writing Grade 6 Anchor Item 57  
Unanchored from the Equating of the Operational Test**

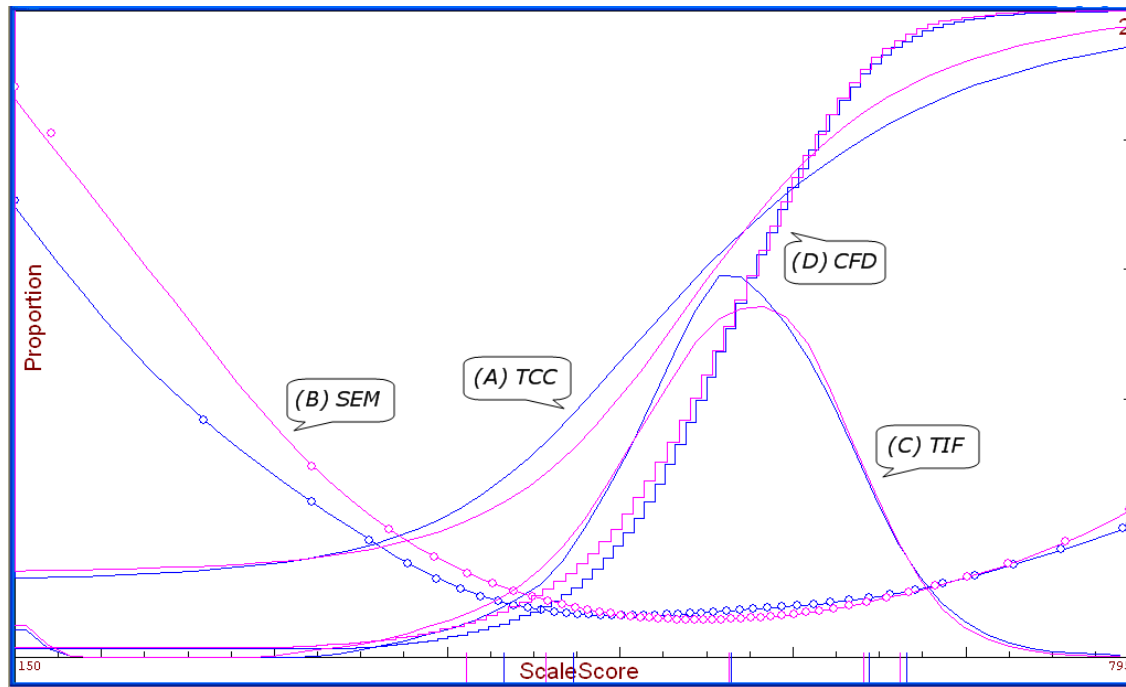


**Figure 3. Item Characteristic Curves for Writing Grade 8 Anchor Item 68  
Unanchored from the Equating of the Operational Test**



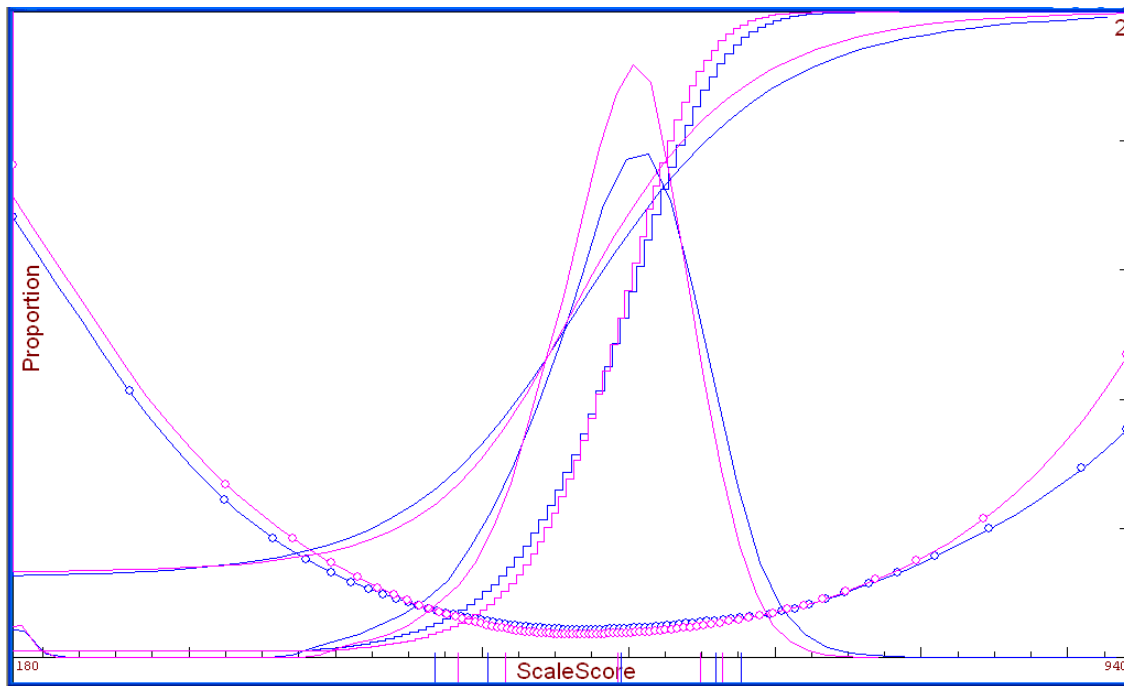
**Figure 4. CSAP Grade 3 Reading Operational Tests**  
(Blue=2009, Pink=2010)

(A) Test Characteristic Curves, (B) Standard Errors of Measurement, (C) Test Information Function, and (D) Cumulative Frequency Distributions Based on Census Data.

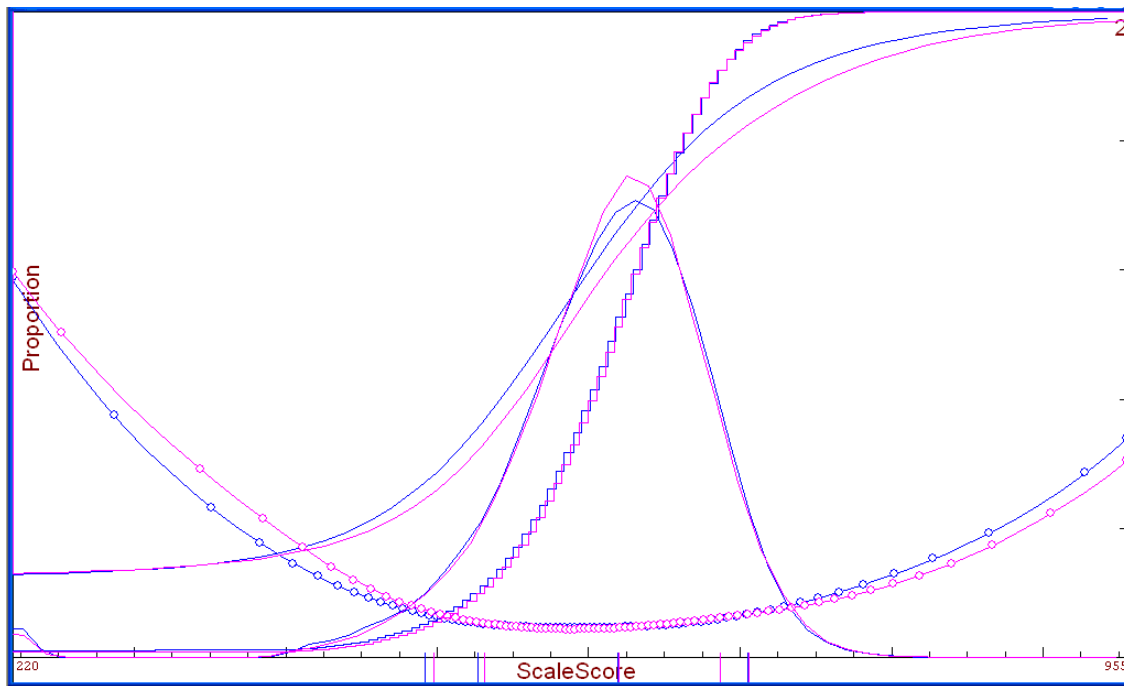




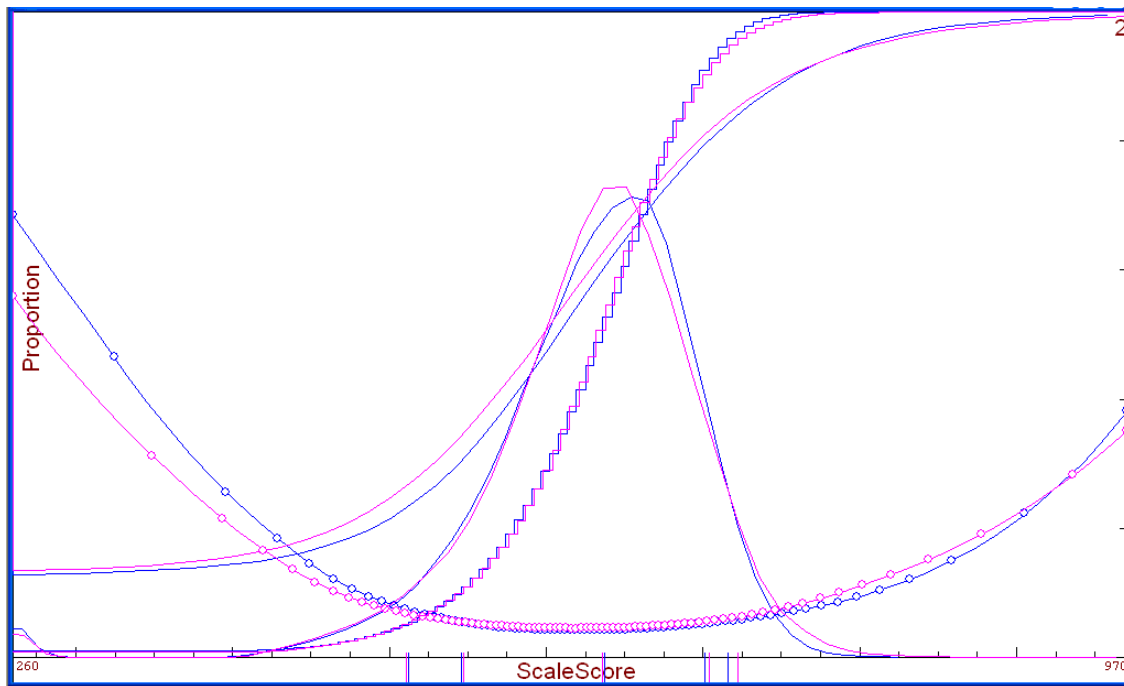
**Figure 5. CSAP Grade 4 Reading Operational Tests**  
(Blue=2009, Pink=2010)



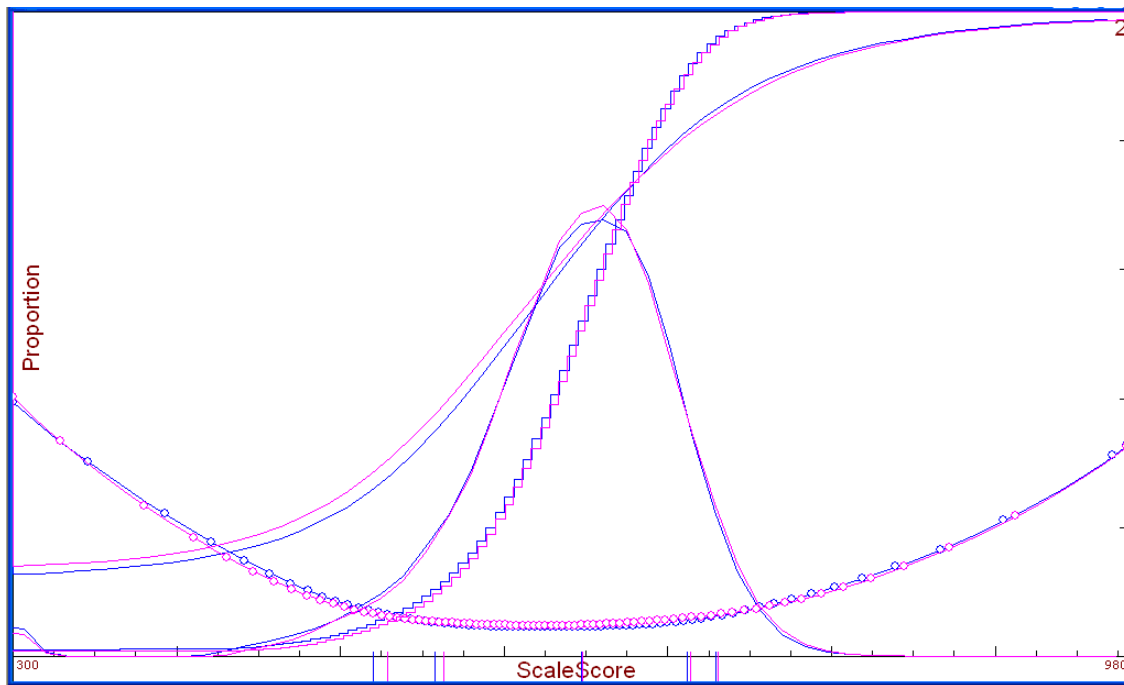
**Figure 6. CSAP Grade 5 Reading Operational Tests**  
(Blue=2009, Pink=2010)



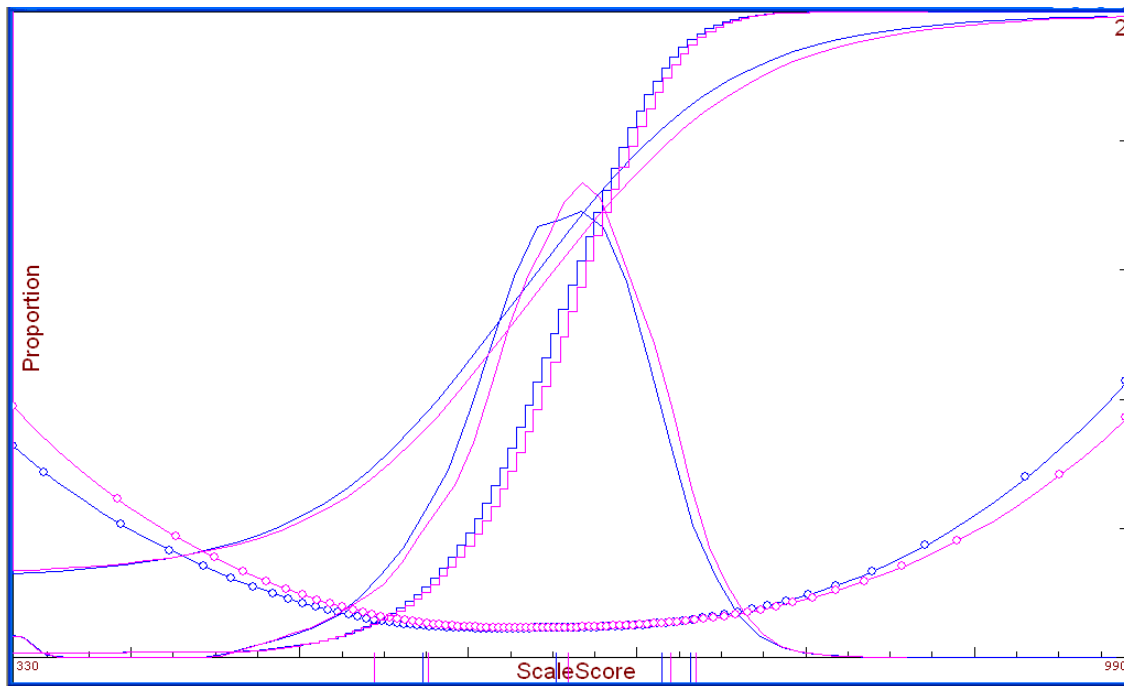
**Figure 7. CSAP Grade 6 Reading Operational Test**  
(Blue=2009, Pink=2010)



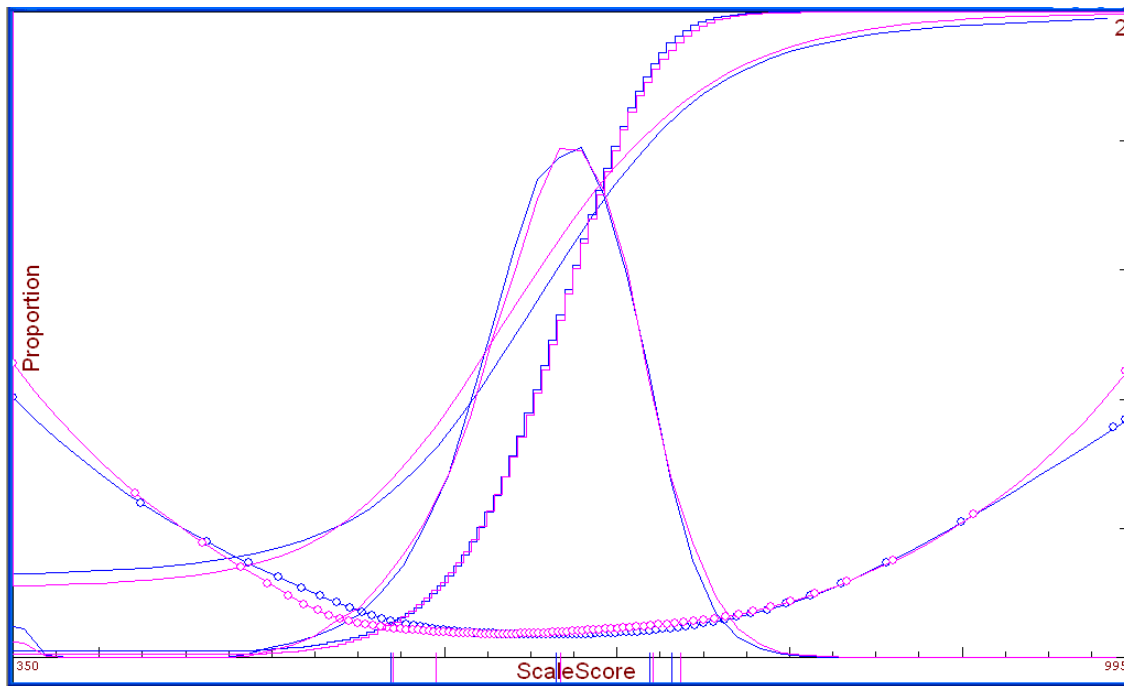
**Figure 8. CSAP Grade 7 Reading Operational Tests**  
(Blue=2009, Pink=2010)



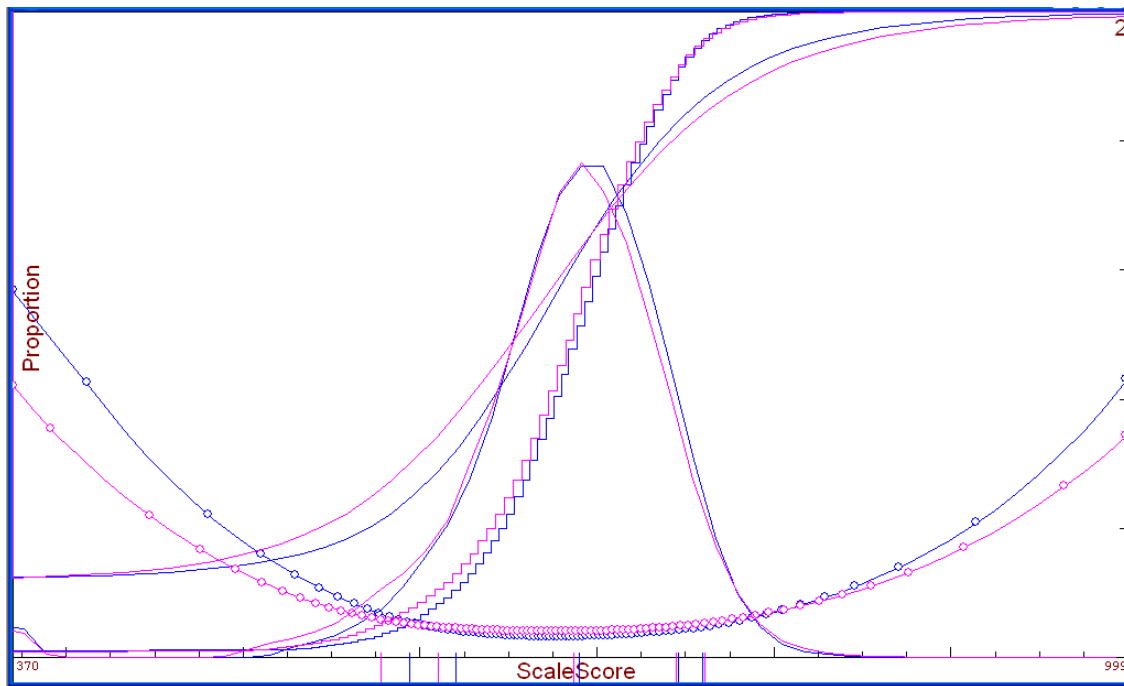
**Figure 9. CSAP Grade 8 Reading Operational Tests**  
(Blue=2009, Pink=2010)



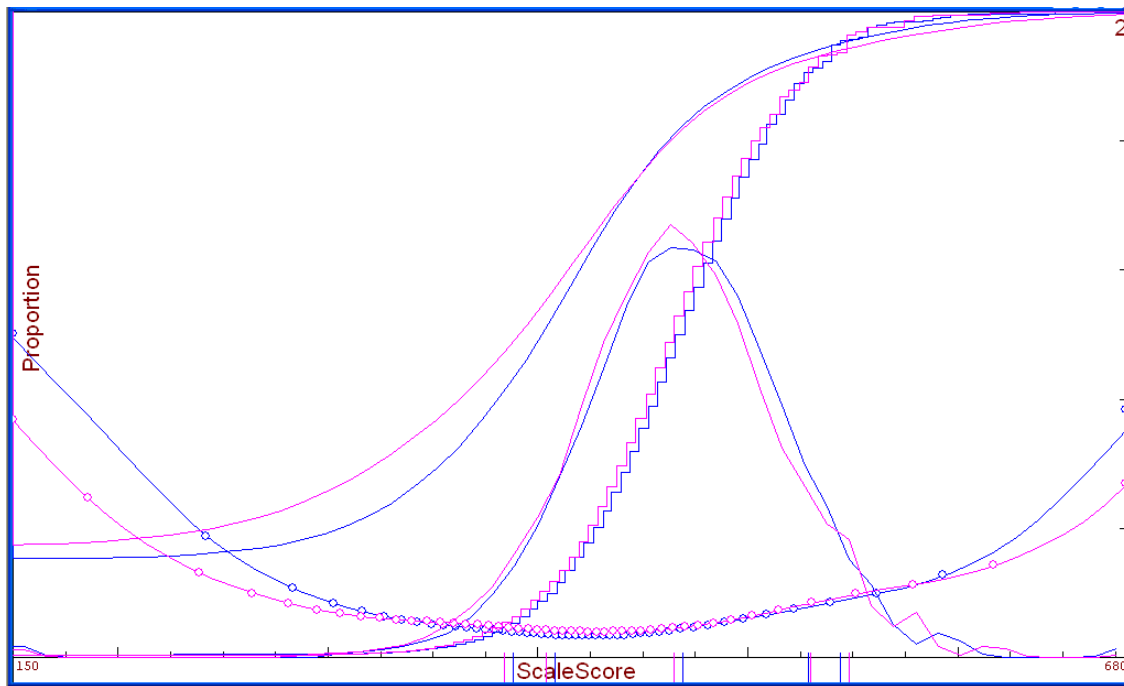
**Figure 10. CSAP Grade 9 Reading Operational Tests**  
(Blue=2009, Pink=2010)



**Figure 11. CSAP Grade 10 Reading Operational Tests**  
(Blue=2009, Pink=2010)

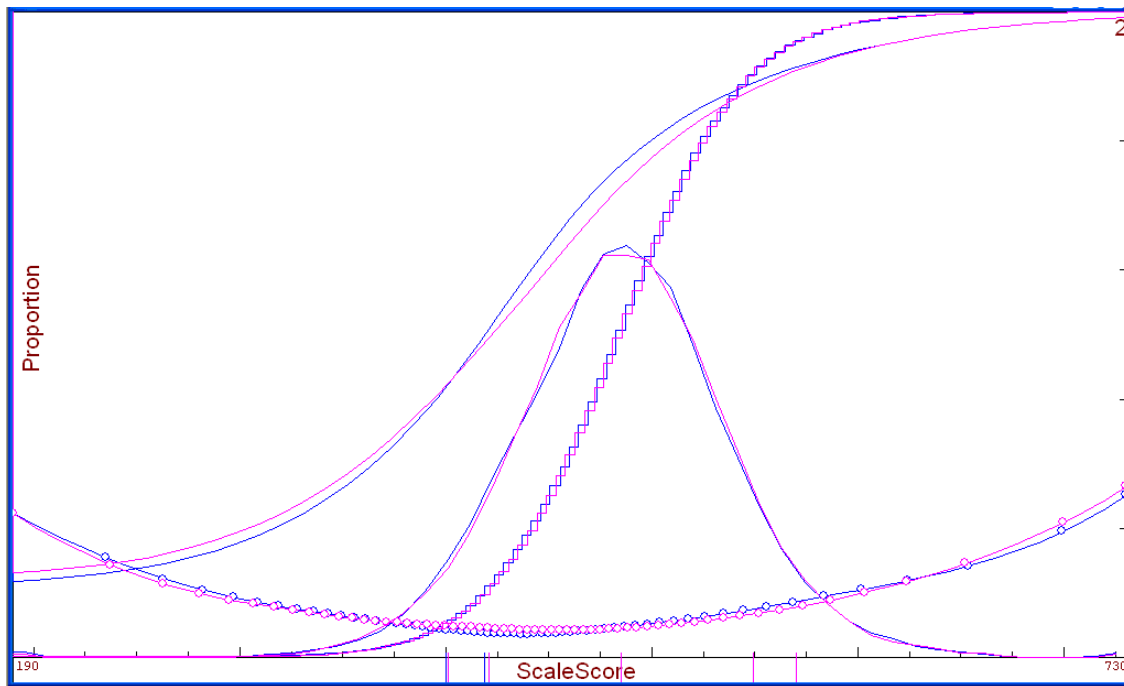


**Figure 12. CSAP Grade 3 Writing Operational Tests**  
(Blue=2009, Pink=2010)

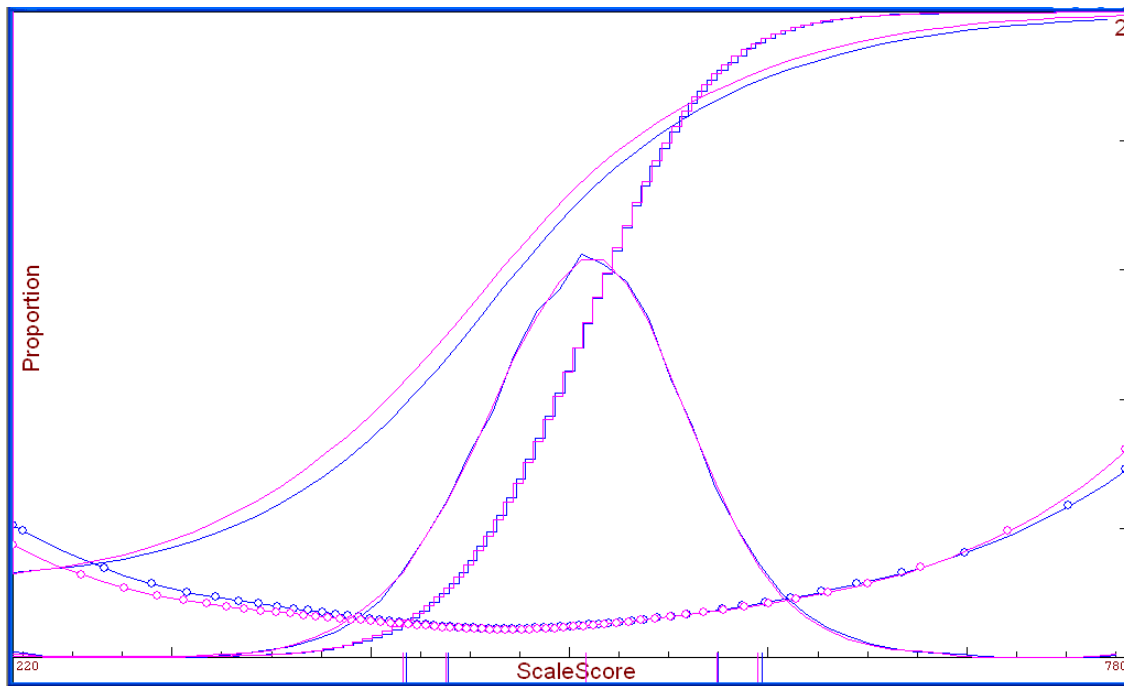




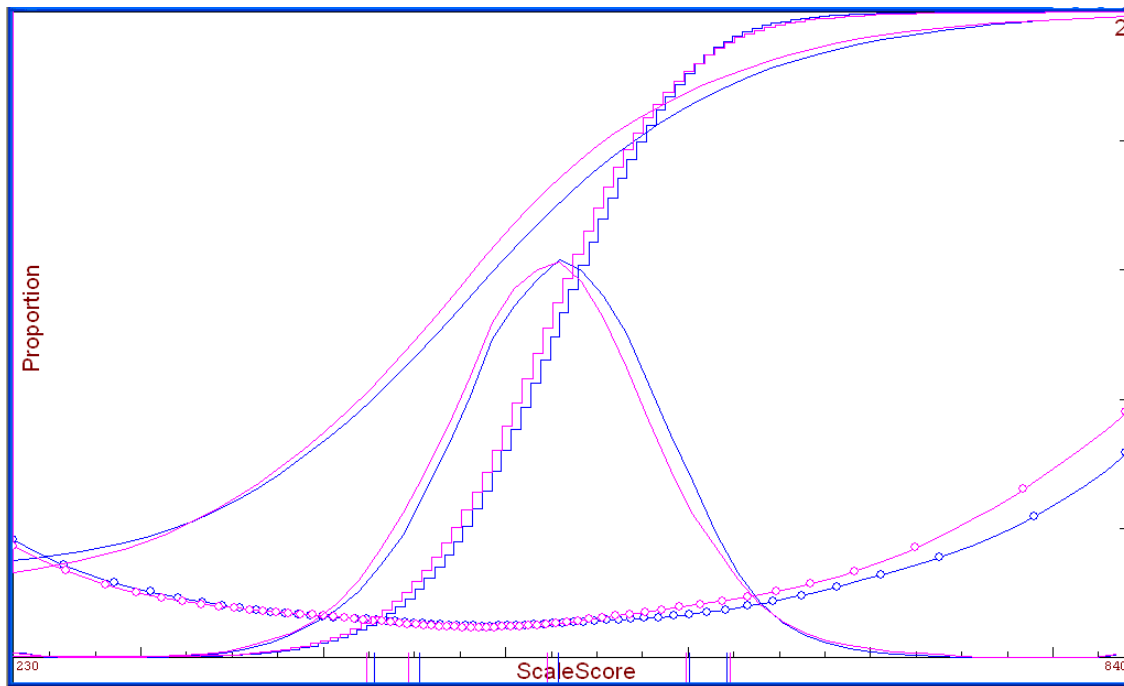
**Figure 13. CSAP Grade 4 Writing Operational Tests**  
(Blue=2009, Pink=2010)



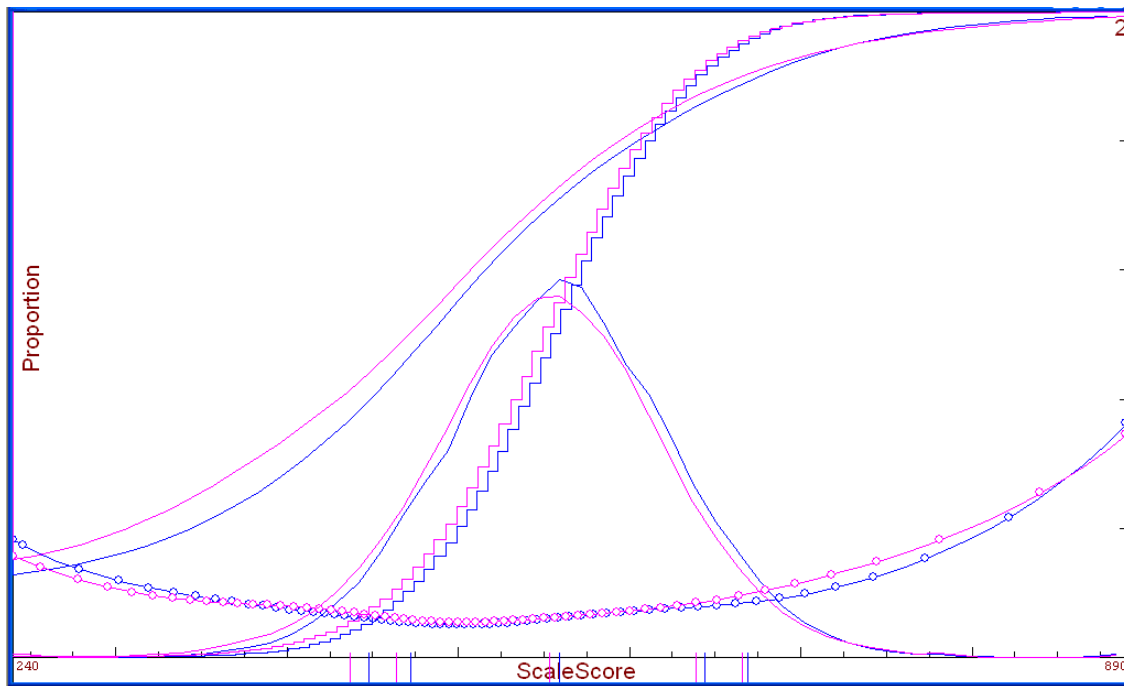
**Figure 14. CSAP Grade 5 Writing Operational Tests**  
(Blue=2009, Pink=2010)



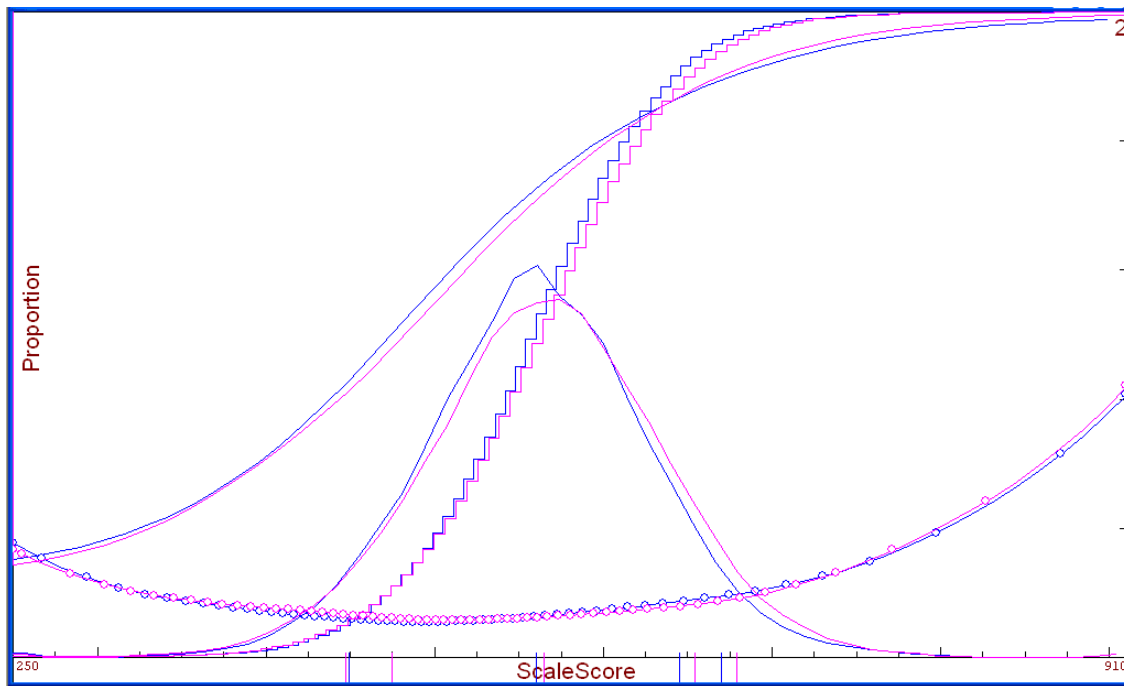
**Figure 15. CSAP Grade 6 Writing Operational Tests**  
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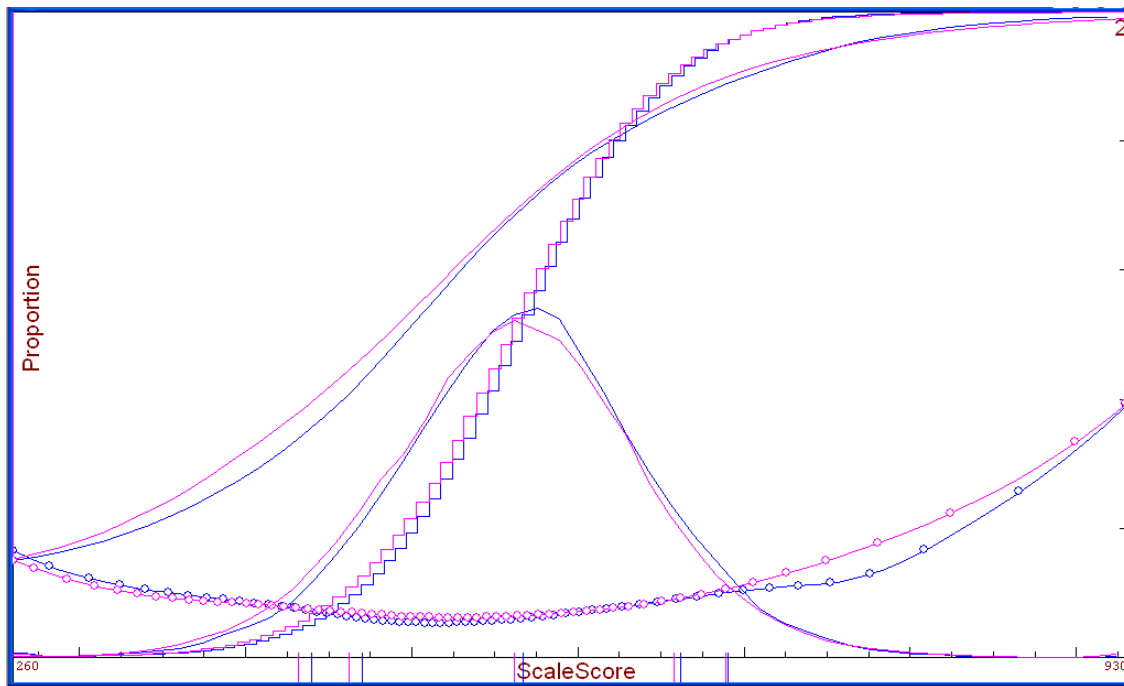
**Figure 16. CSAP Grade 7 Writing Operational Tests.**  
(Blue=2009, Pink=2010)



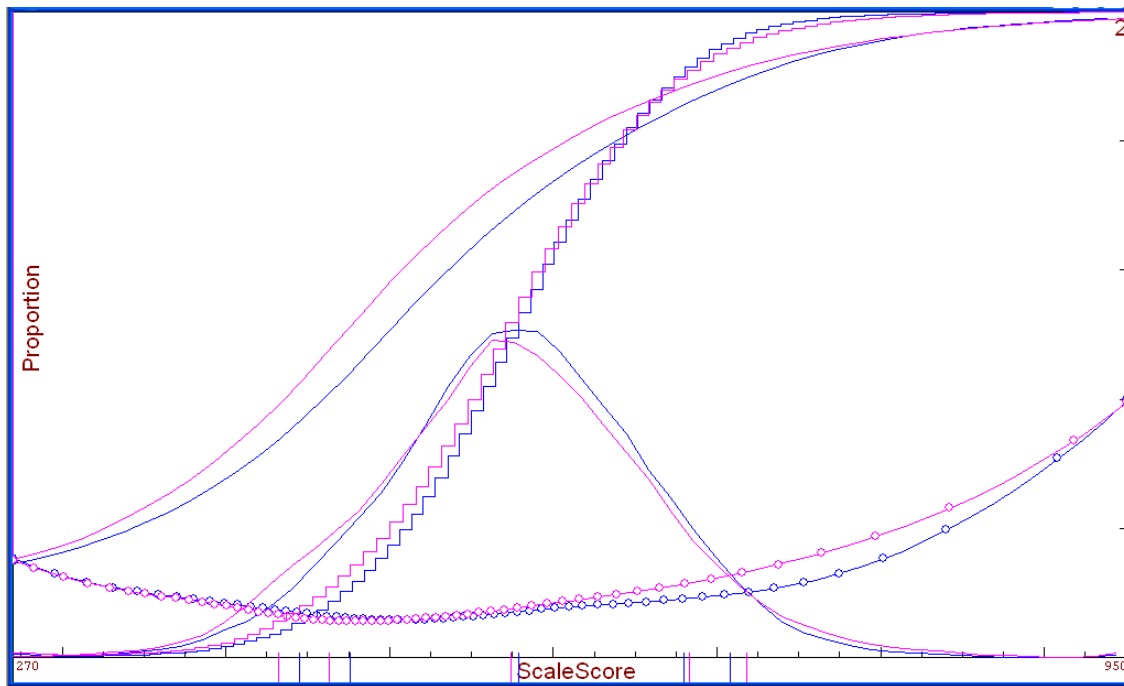
**Figure 17. CSAP Grade 8 Writing Operational Tests.**  
(Blue=2009, Pink=2010)



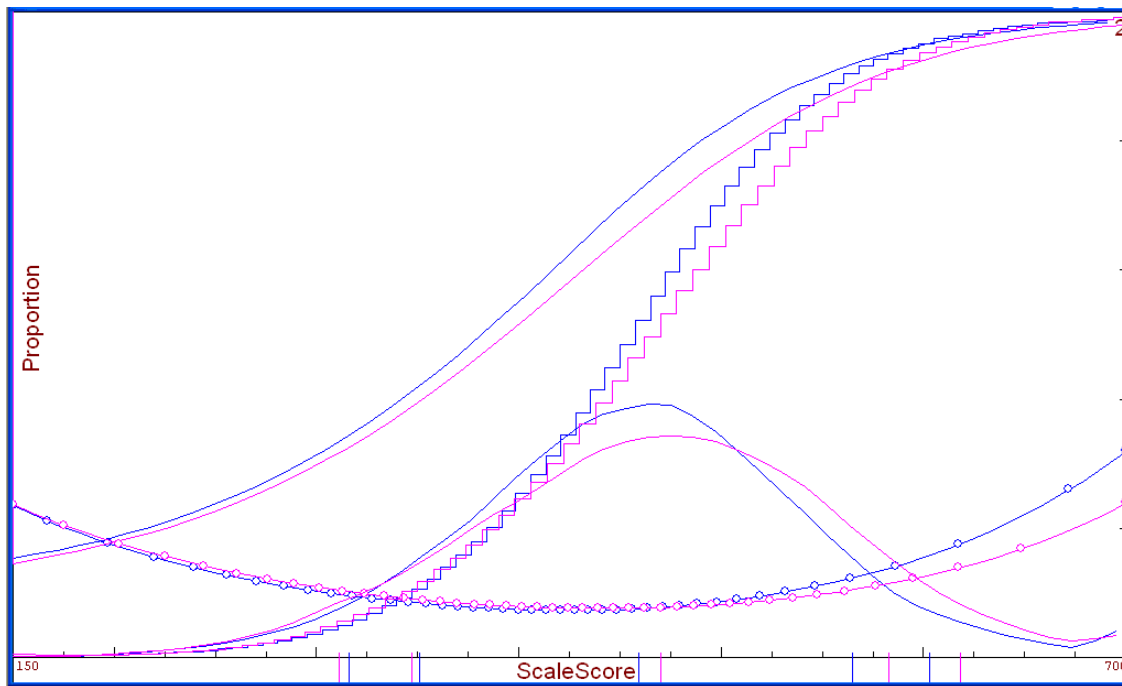
**Figure 18. CSAP Grade 9 Writing Operational Tests.**  
(Blue=2009, Pink=2010)



**Figure 19. CSAP Grade 10 Writing Operational Tests.**  
(Blue=2009, Pink=2010)

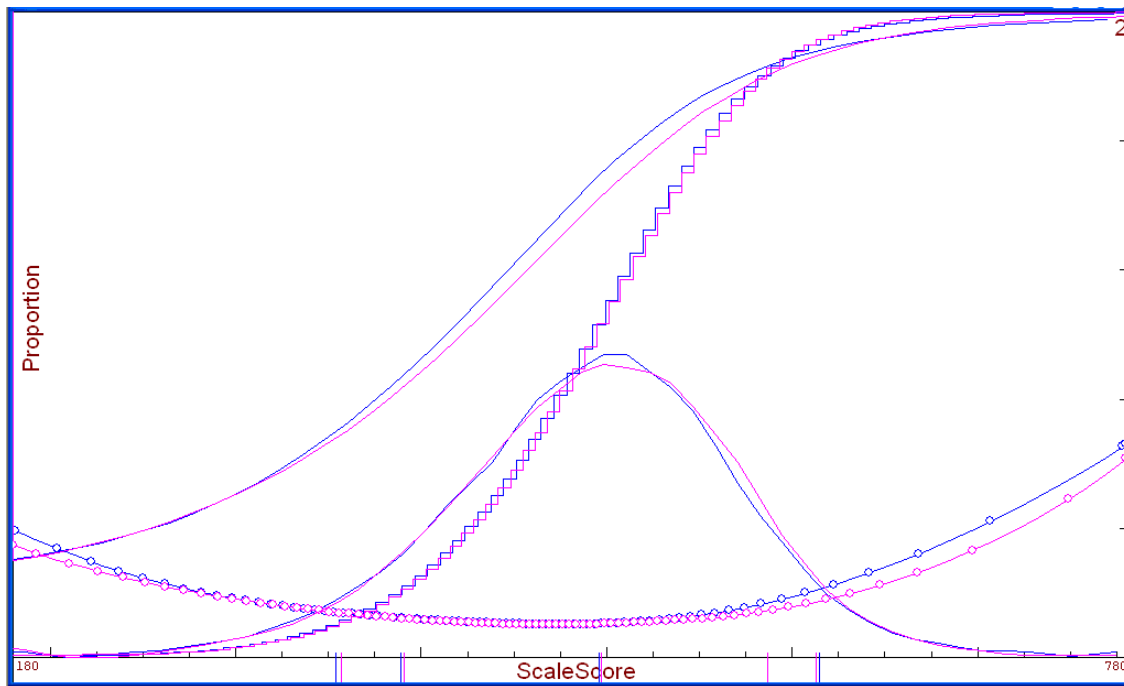


**Figure 20. CSAP Grade 3 Mathematics Operational Tests.**  
(Blue=2009, Pink=2010)

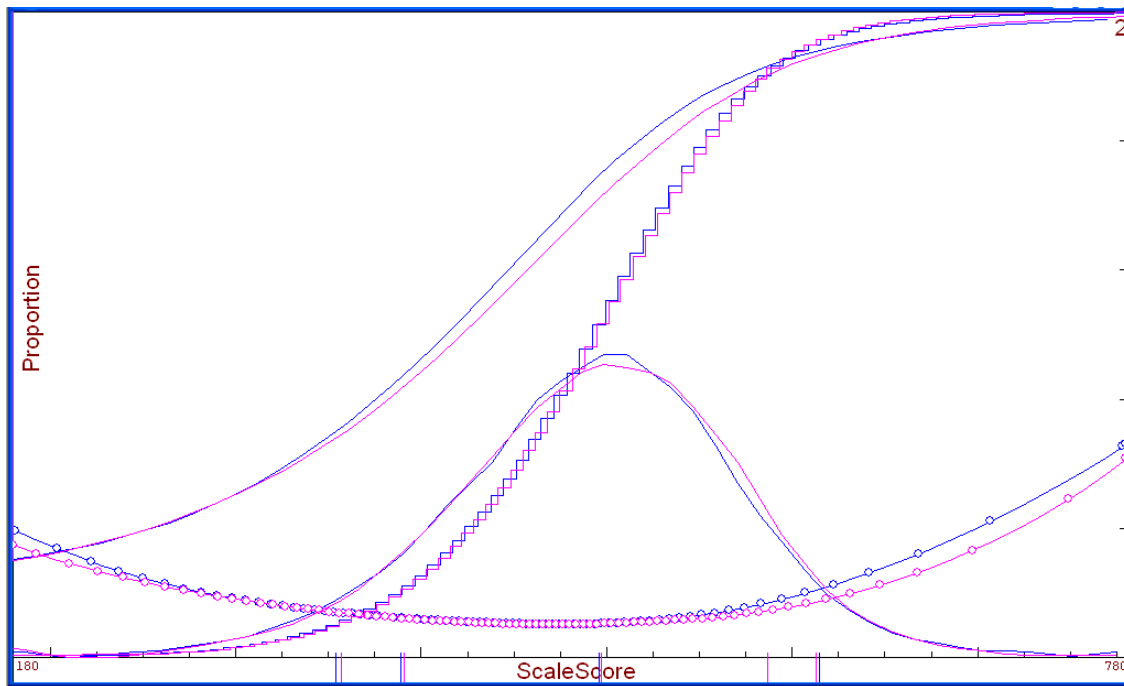




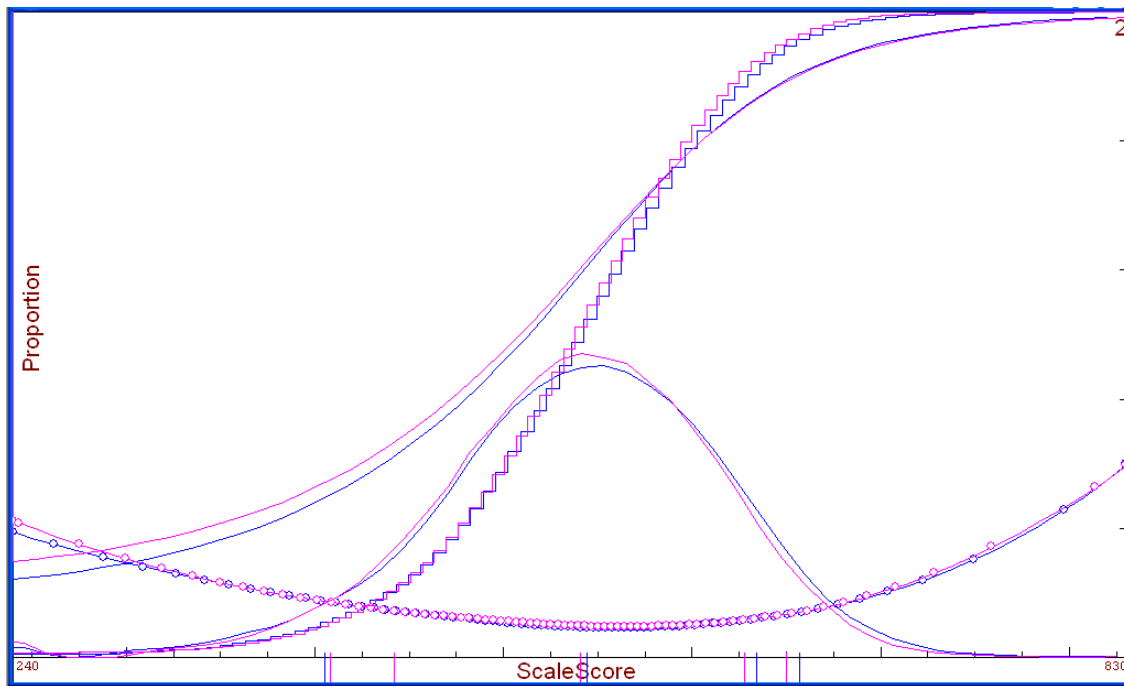
**Figure 21. CSAP Grade 4 Mathematics Operational Tests.**  
(Blue=2009, Pink=2010)



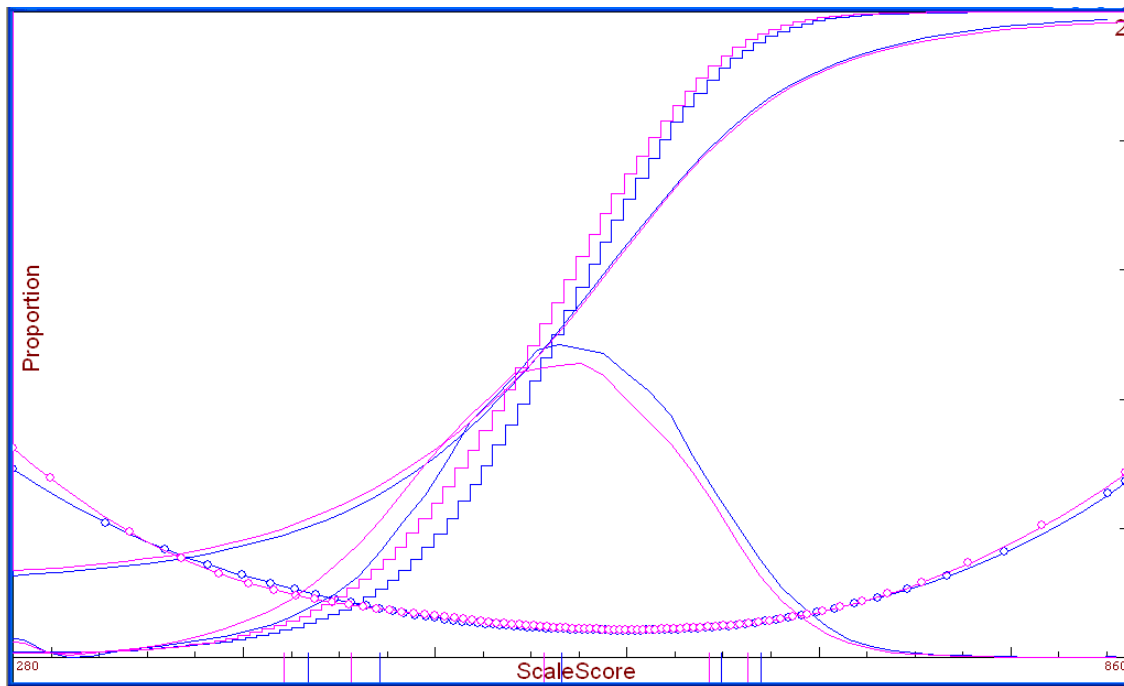
**Figure 22. CSAP Grade 5 Mathematics Operational Tests.**  
(Blue=2009, Pink=2010)



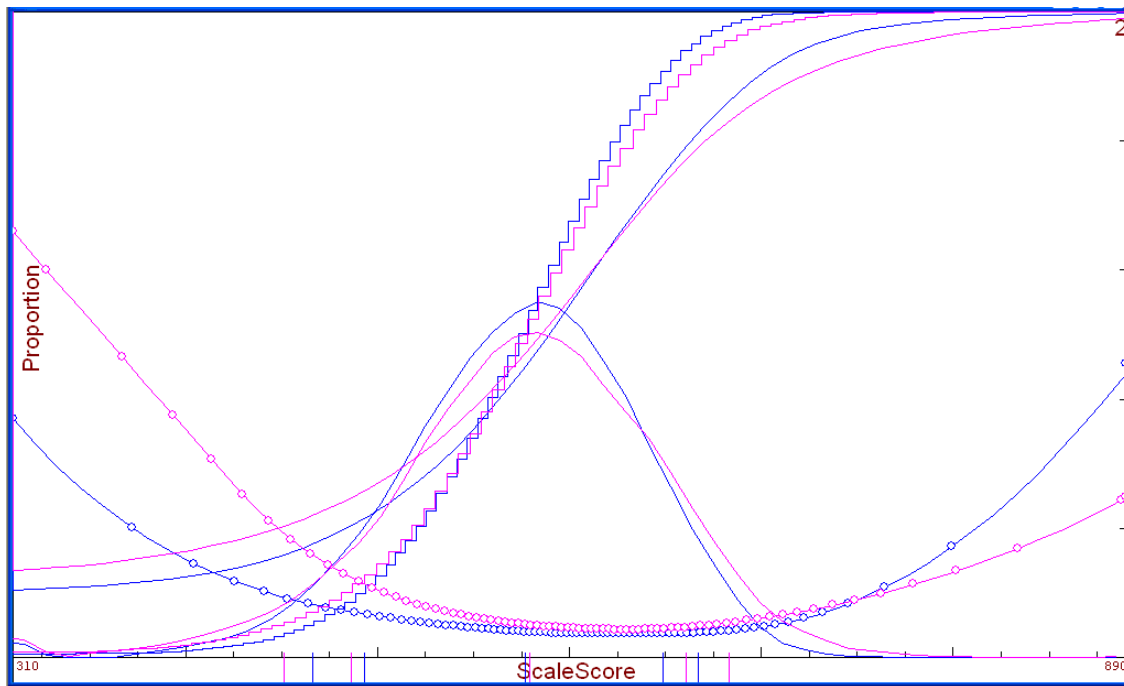
**Figure 23. CSAP Grade 6 Mathematics Operational Tests.**  
(Blue=2009, Pink=2010)



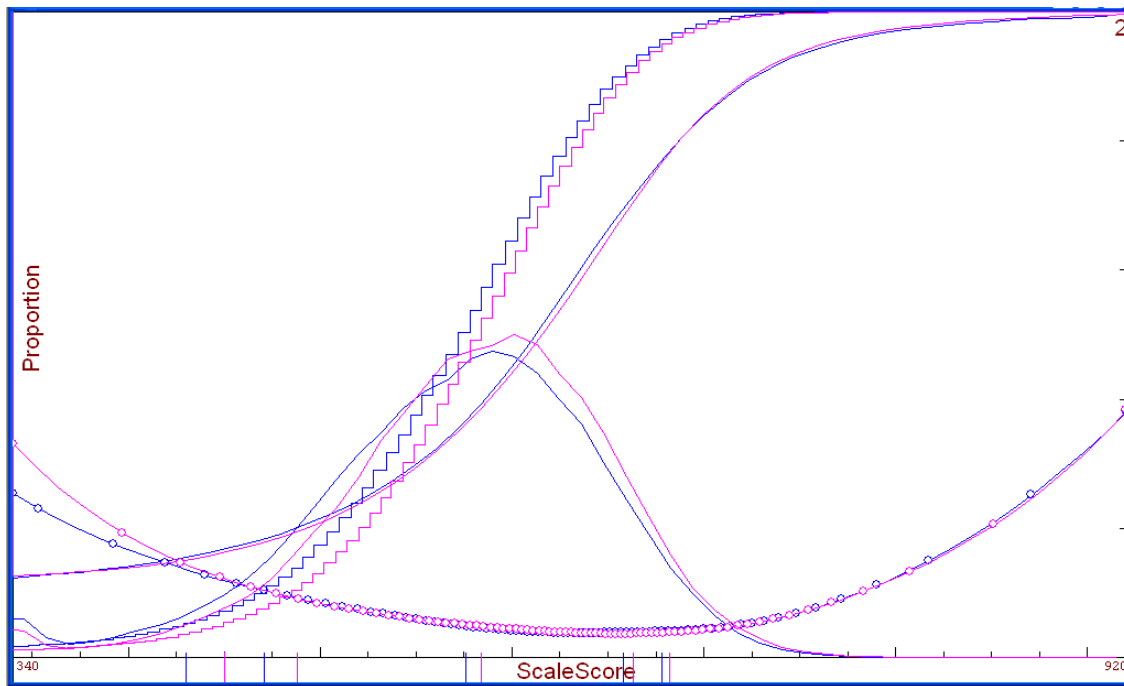
**Figure 24. CSAP Grade 7 Mathematics Operational Tests.**  
(Blue=2009, Pink=2010)



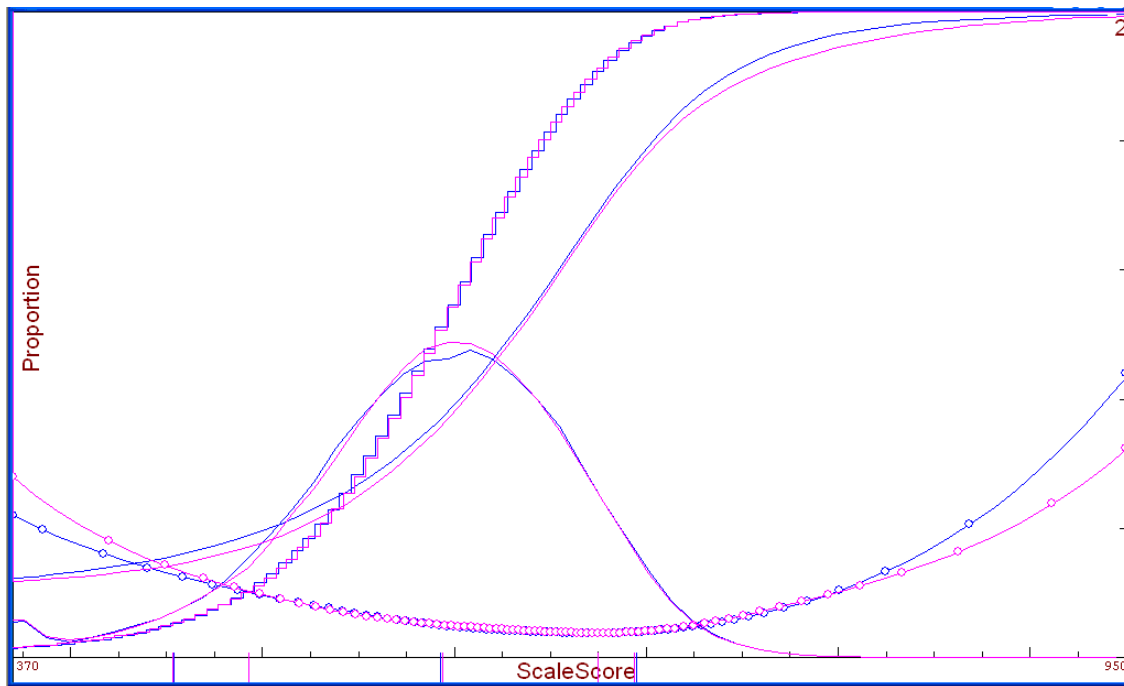
**Figure 25. CSAP Grade 8 Mathematics Operational Tests.**  
(Blue=2009, Pink=2010)



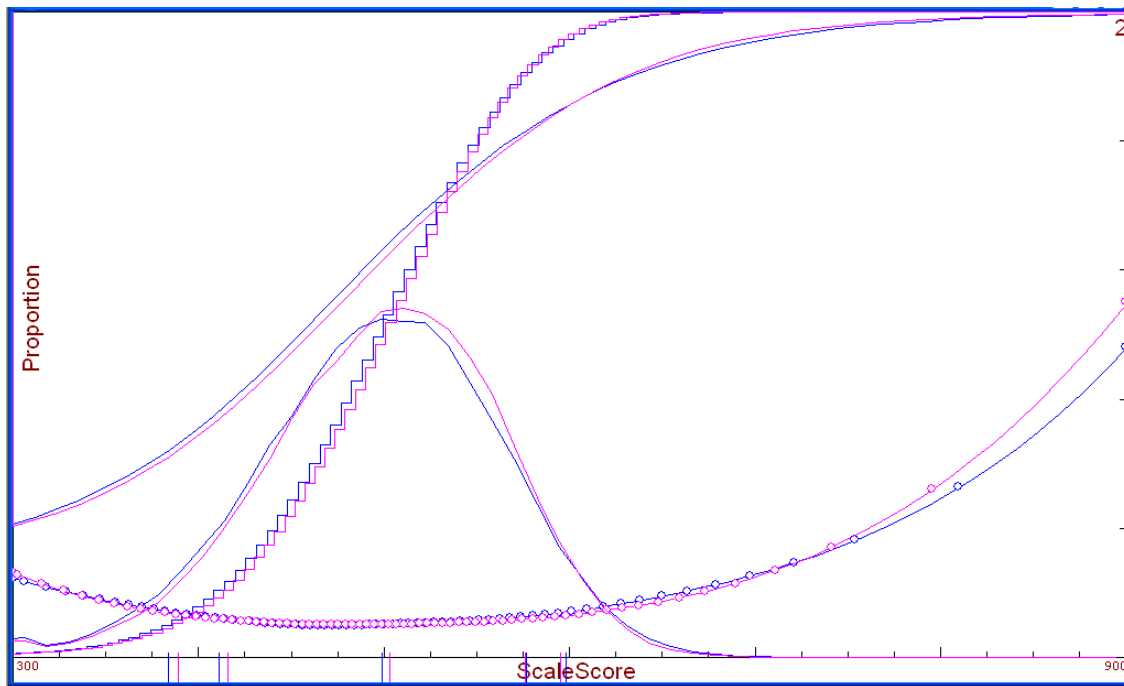
**Figure 26. CSAP Grade 9 Mathematics Operational Tests.**  
(Blue=2009, Pink=2010)



**Figure 27. CSAP Grade 10 Mathematics Operational Tests**  
(Blue=2009, Pink=2010)

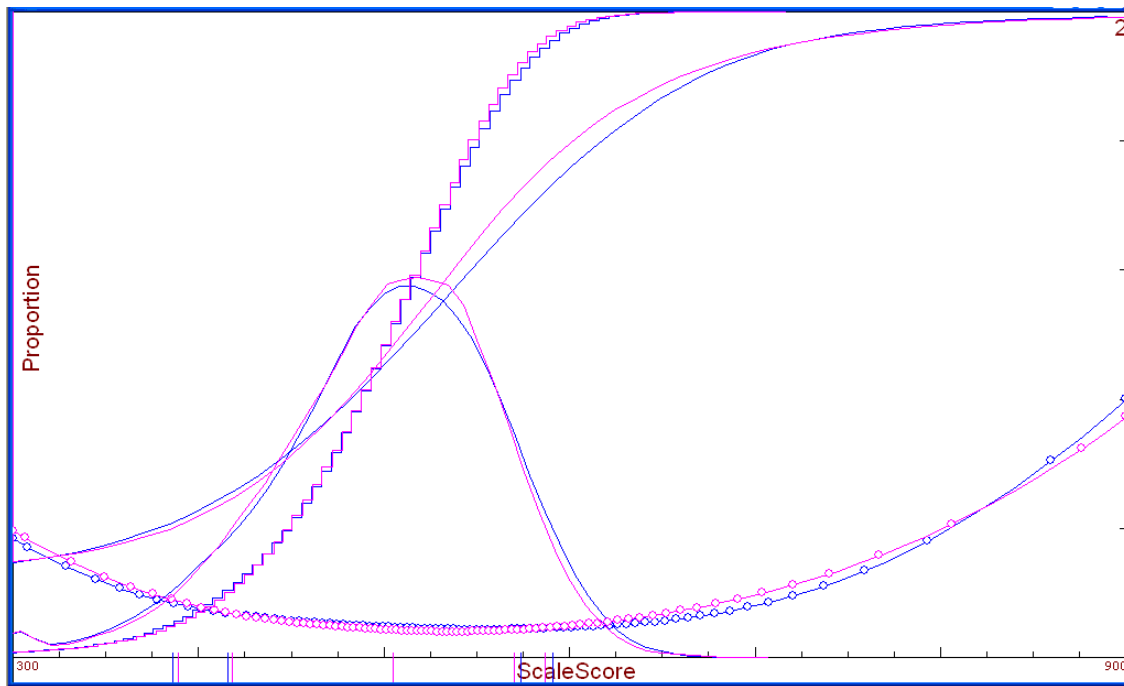


**Figure 28. CSAP Grade 5 Science Operational Tests**  
(Blue=2009, Pink=2010)

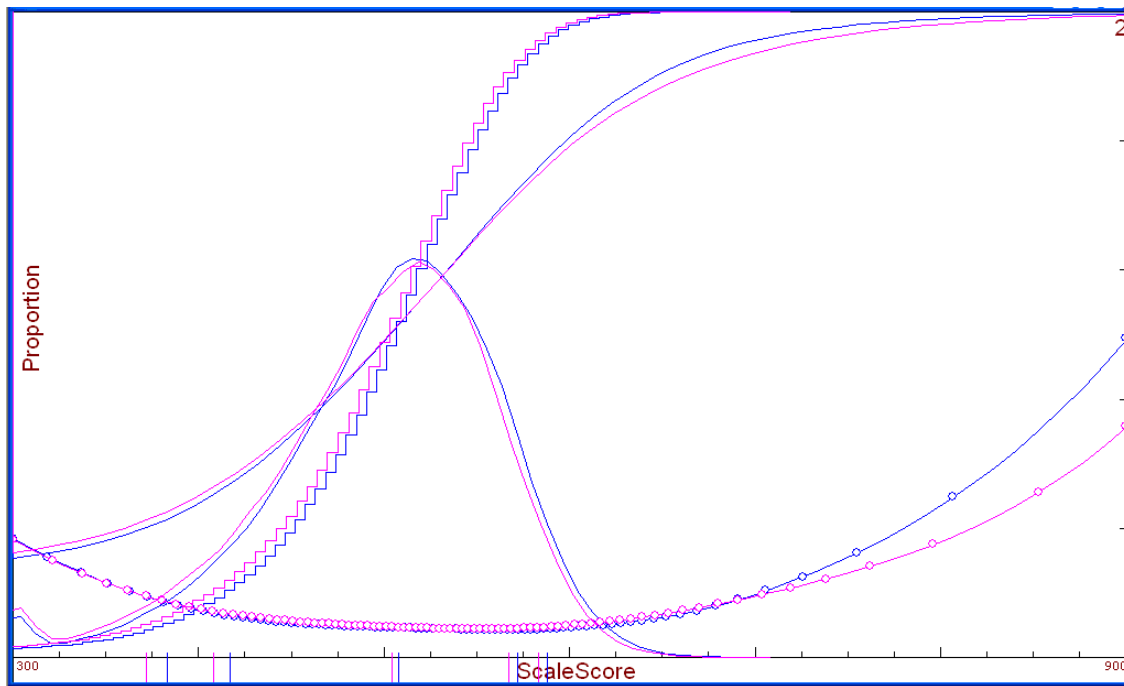




**Figure 29. CSAP Grade 8 Science Operational Tests**  
(Blue=2009, Pink=2010)

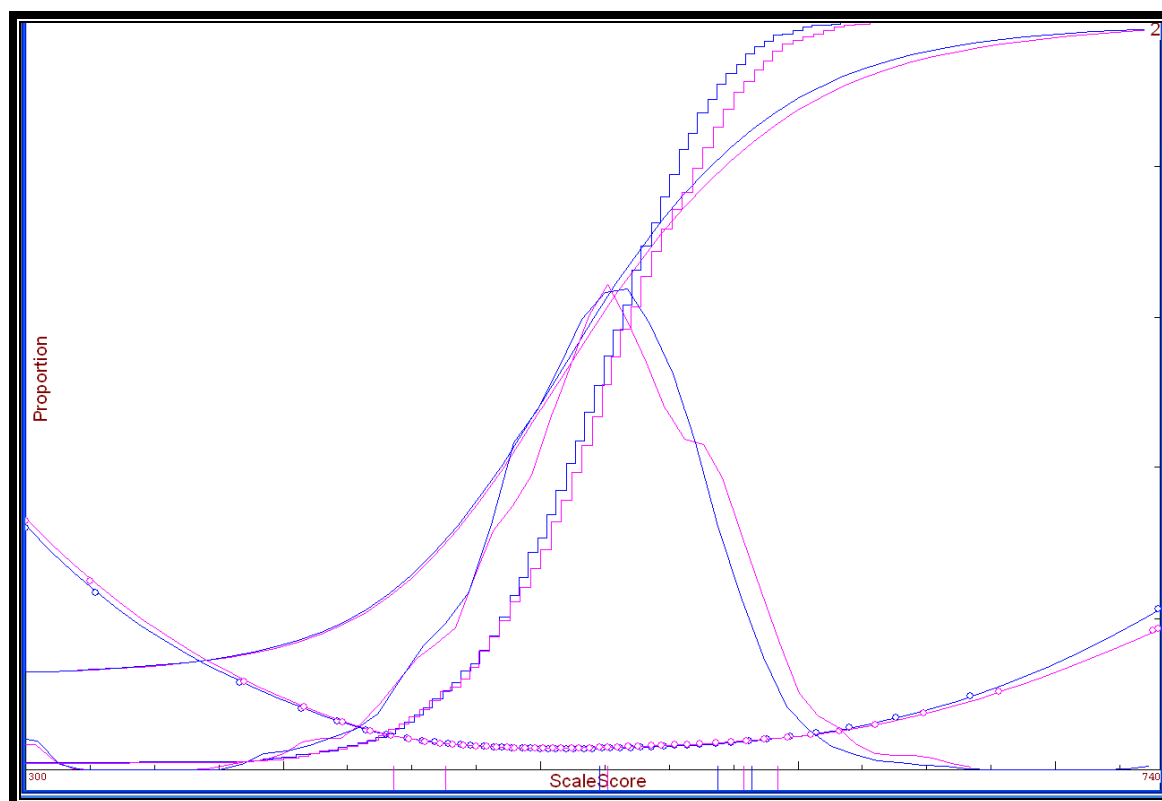


**Figure 30. CSAP Grade 10 Science Operational Tests**  
(Blue=2009, Pink=2010)



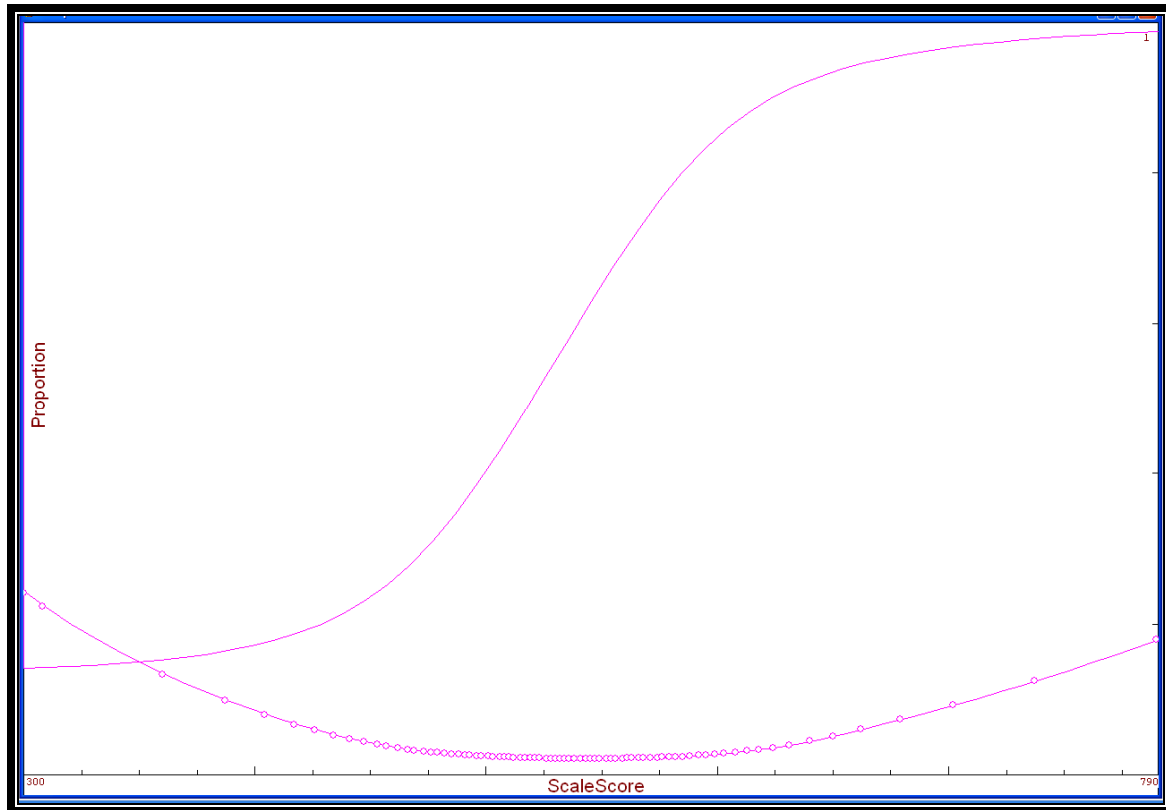
**Figure 31. CSAP Grade 3 Spanish Reading Operational Tests**  
(Blue=2008, Pink=2009 and 2010)

Note: As this test was pre-equated, final transformed parameters were used and no graphical frequency distribution information is available for 2010. 2009 and 2010 parameters and test characteristic curves are identical.



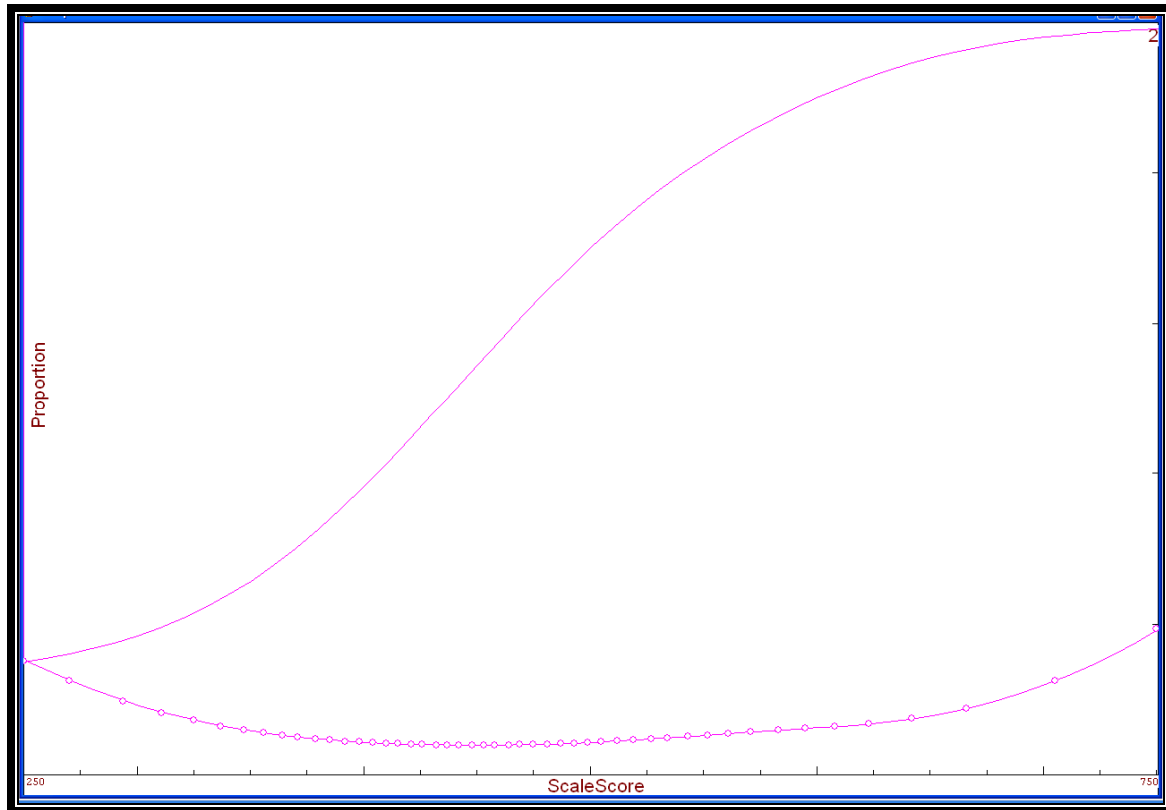
**Figure 32. CSAP Grade 4 Spanish Reading Operational Tests**  
(Pink=2009 and 2010)

Note: As this test was pre-equated, final transformed parameters were used and no graphical frequency distribution information is available. 2009 and 2010 parameters and curves are identical.



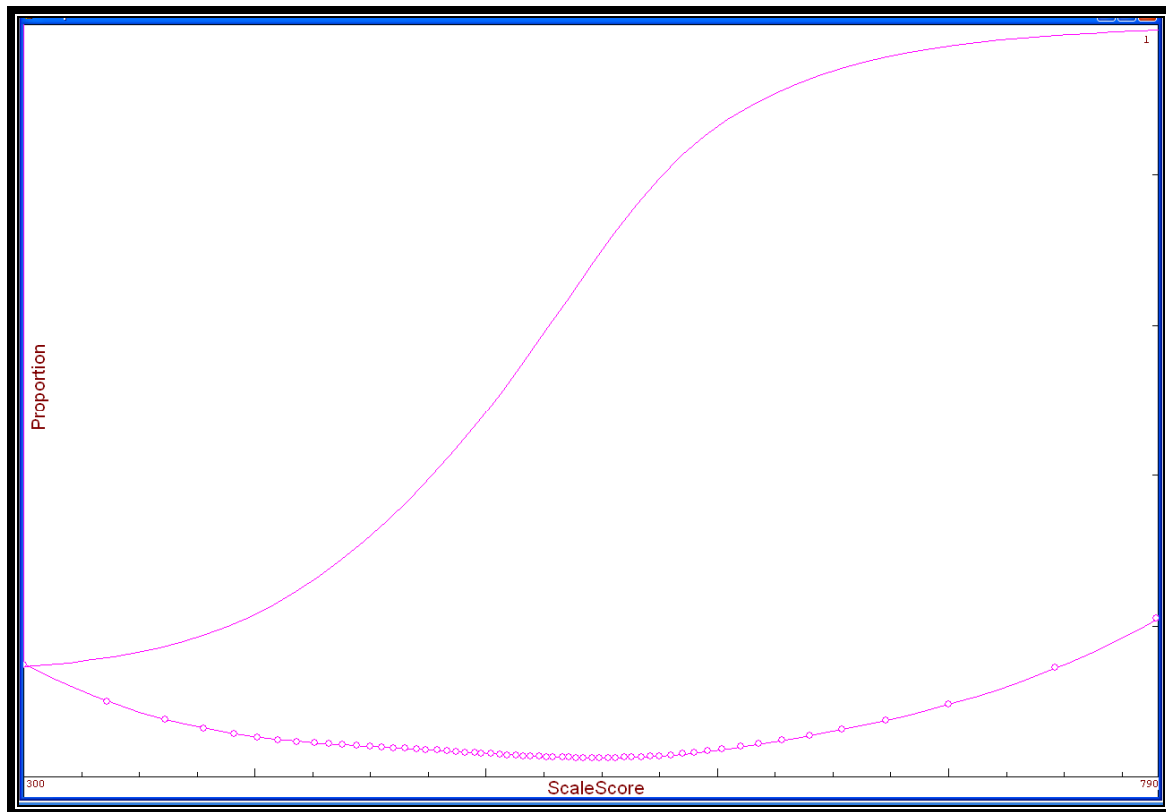
**Figure 33. CSAP Grade 3 Spanish Writing Operational Tests**  
(Pink=2009 and 2010)

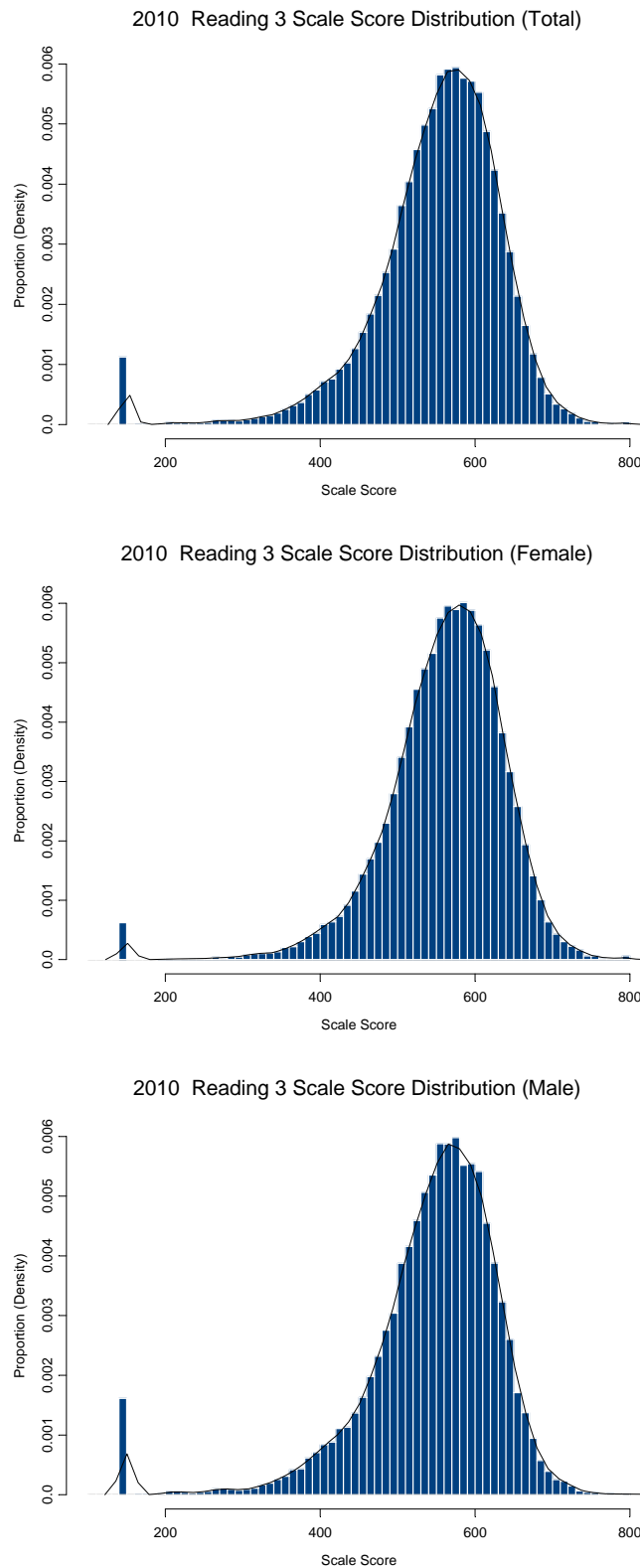
Note: As this test was pre-equated, final transformed parameters were used and no graphical frequency distribution information is available. 2009 and 2010 parameters and curves are identical.

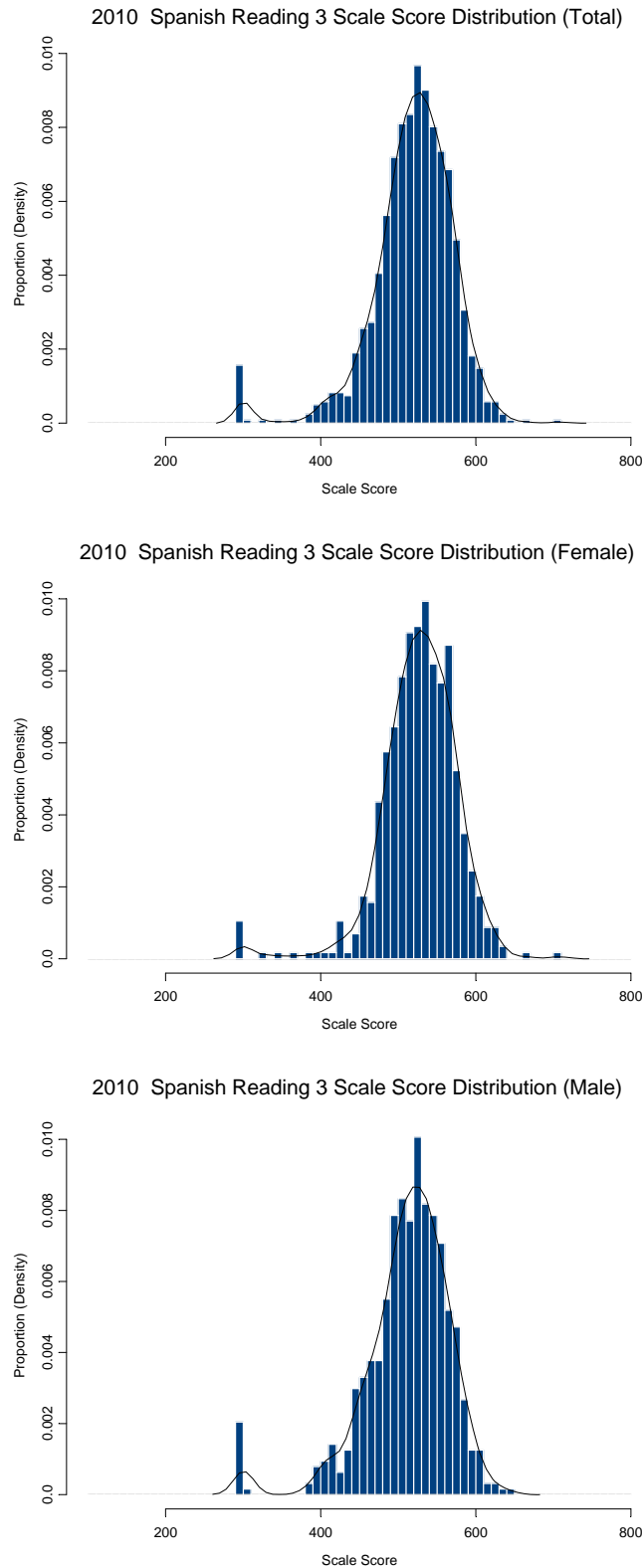


**Figure 34. CSAP Grade 4 Spanish Writing Operational Tests**  
(Pink=2009 and 2010)

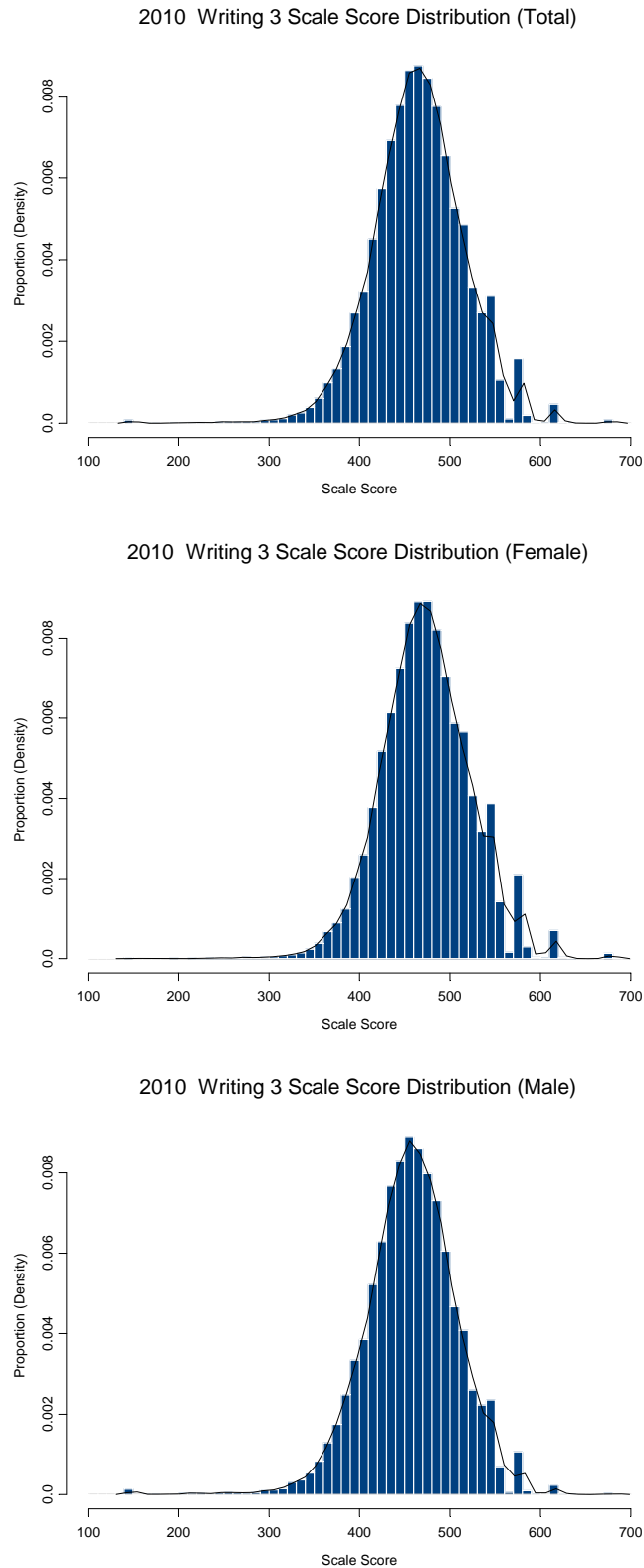
Note: As this test was pre-equated, final transformed parameters were used and no graphical frequency distribution information is available. 2009 and 2010 parameters and curves are identical.



**Figure 35. Reading 3 Scale Score Distributions for the Total Population, Female, and Male Students**

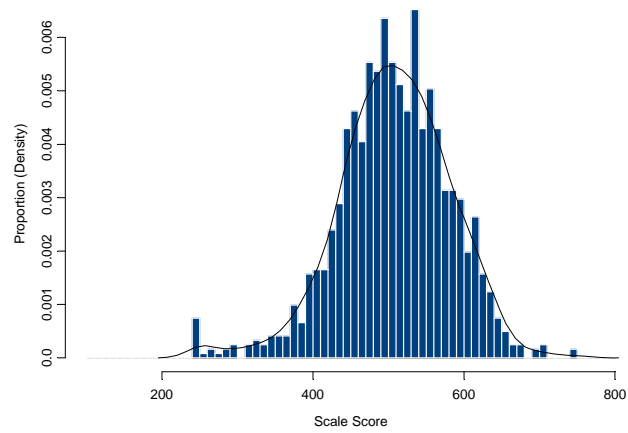
**Figure 36. Spanish Reading 3 Scale Score Distributions for the Total Population, Female, and Male Students**



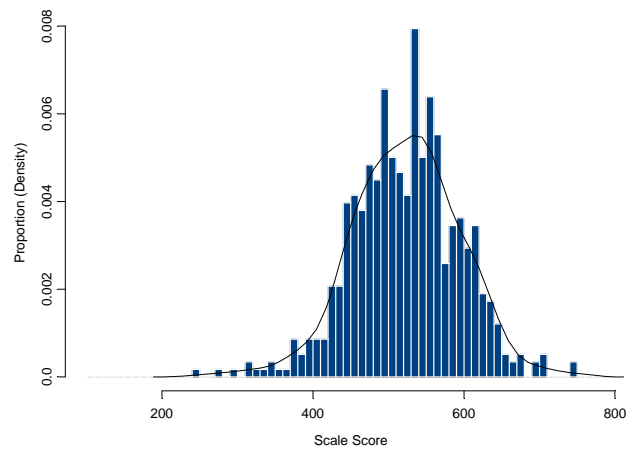
**Figure 37. Writing 3 Scale Score Distributions for the Total Population, Female, and Male Students**

**Figure 38. Spanish Writing 3 Scale Score Distributions for the Total Population, Female, and Male Students**

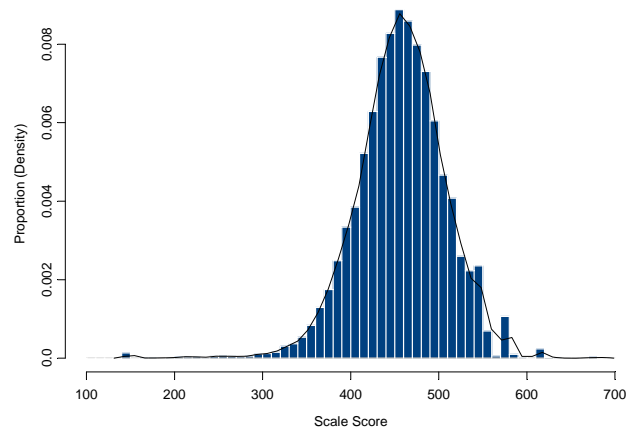
2010 Spanish Writing 3 Scale Score Distribution (Total)

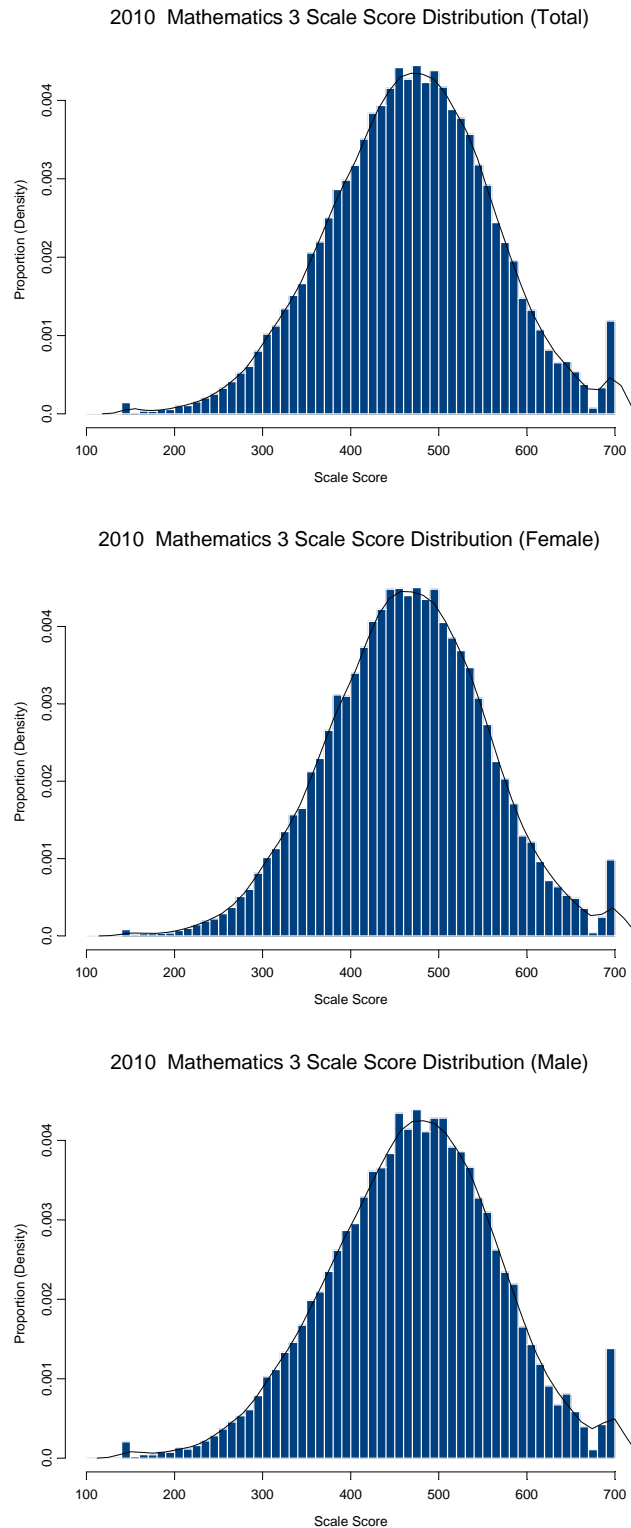


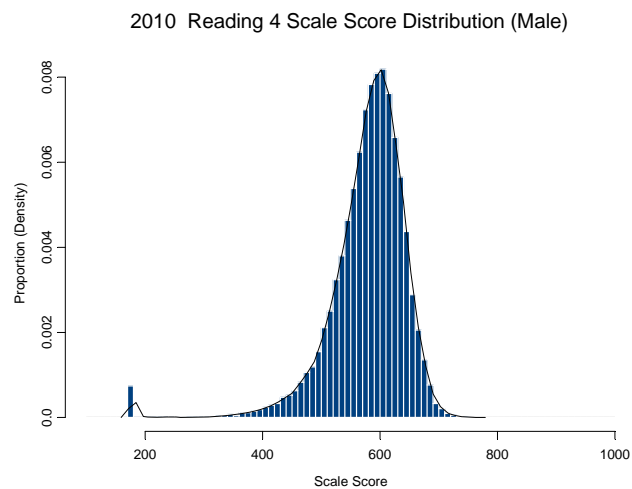
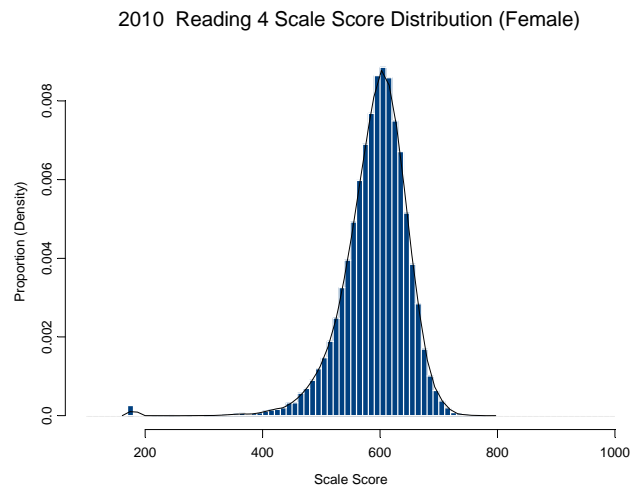
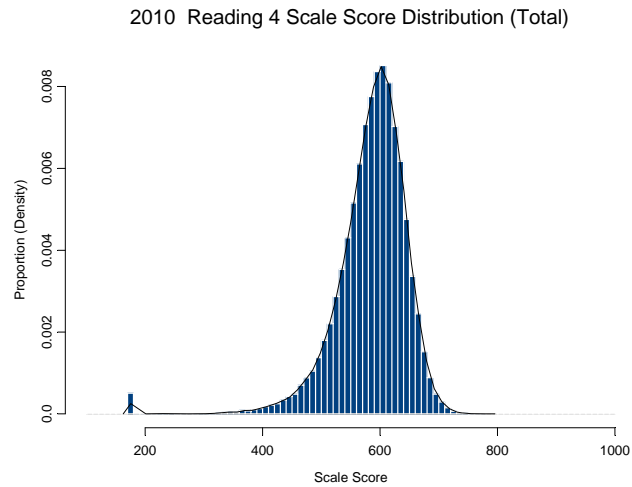
2010 Spanish Writing 3 Scale Score Distribution (Female)



2010 Writing 3 Scale Score Distribution (Male)

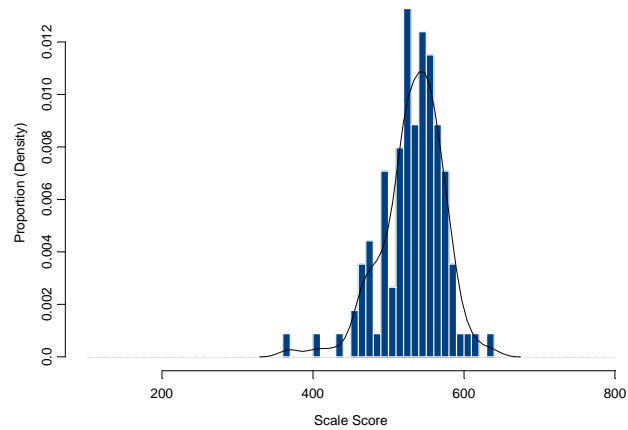


**Figure 39. Mathematics 3 Scale Score Distributions for the Total Population, Female, and Male Students**

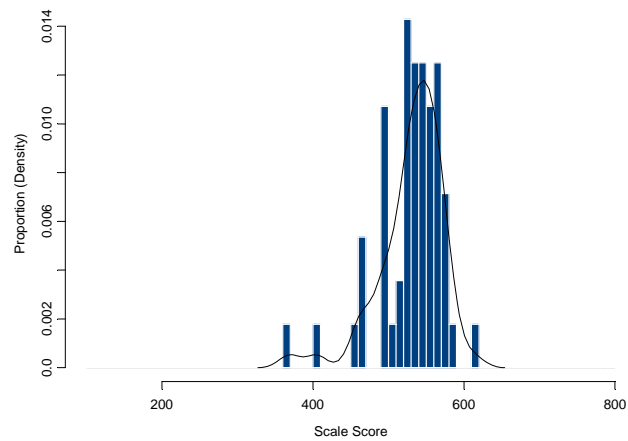
**Figure 40. Reading 4 Scale Score Distributions for the Total Population, Female, and Male Students**

**Figure 41. Spanish Reading 4 Scale Score Distributions for the Total Population, Female, and Male Students**

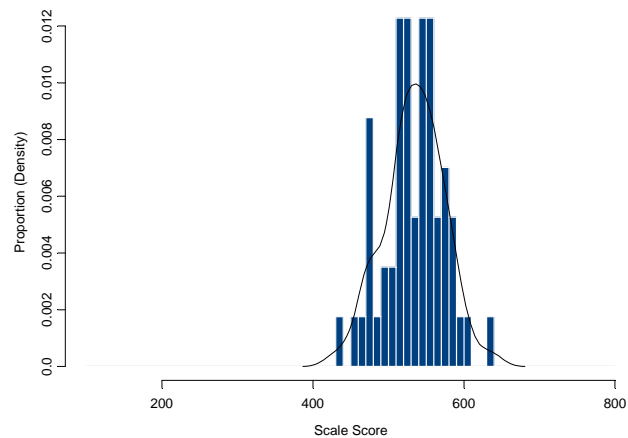
2010 Spanish Reading 4 Scale Score Distribution (Total)

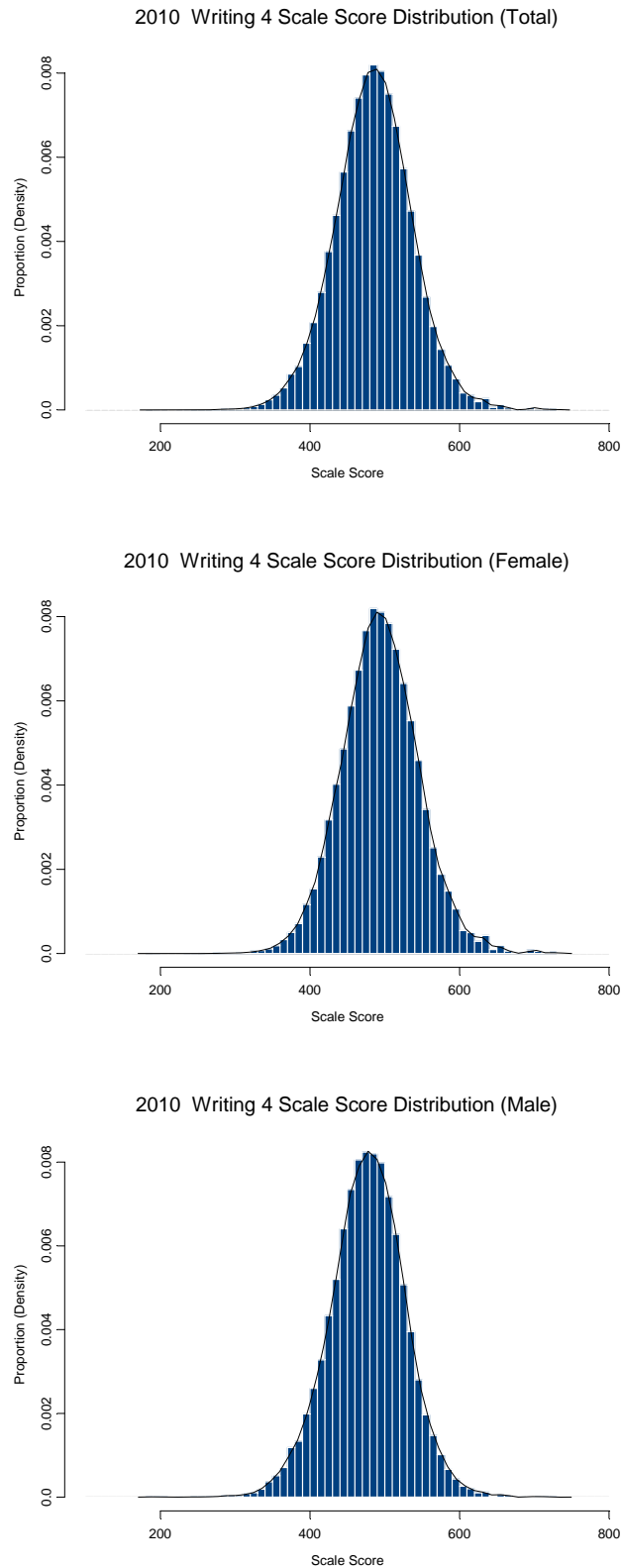


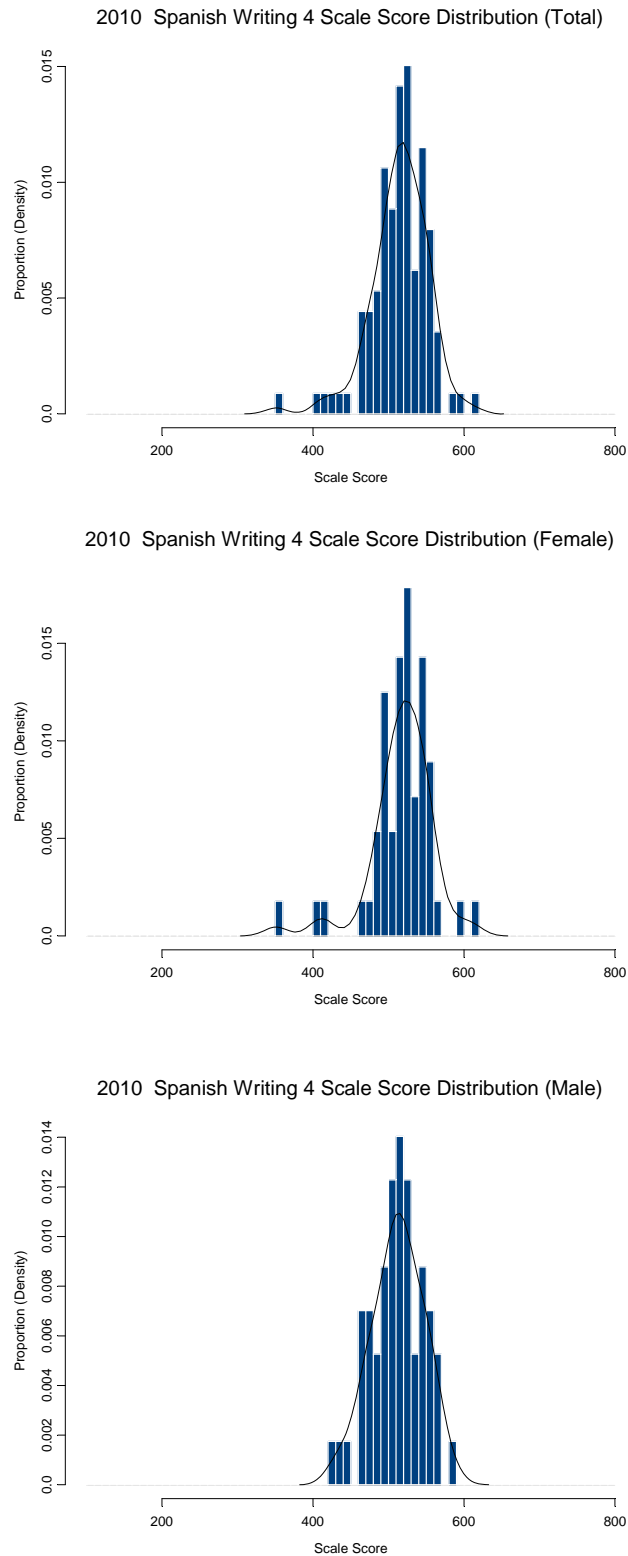
2010 Spanish Reading 4 Scale Score Distribution (Female)

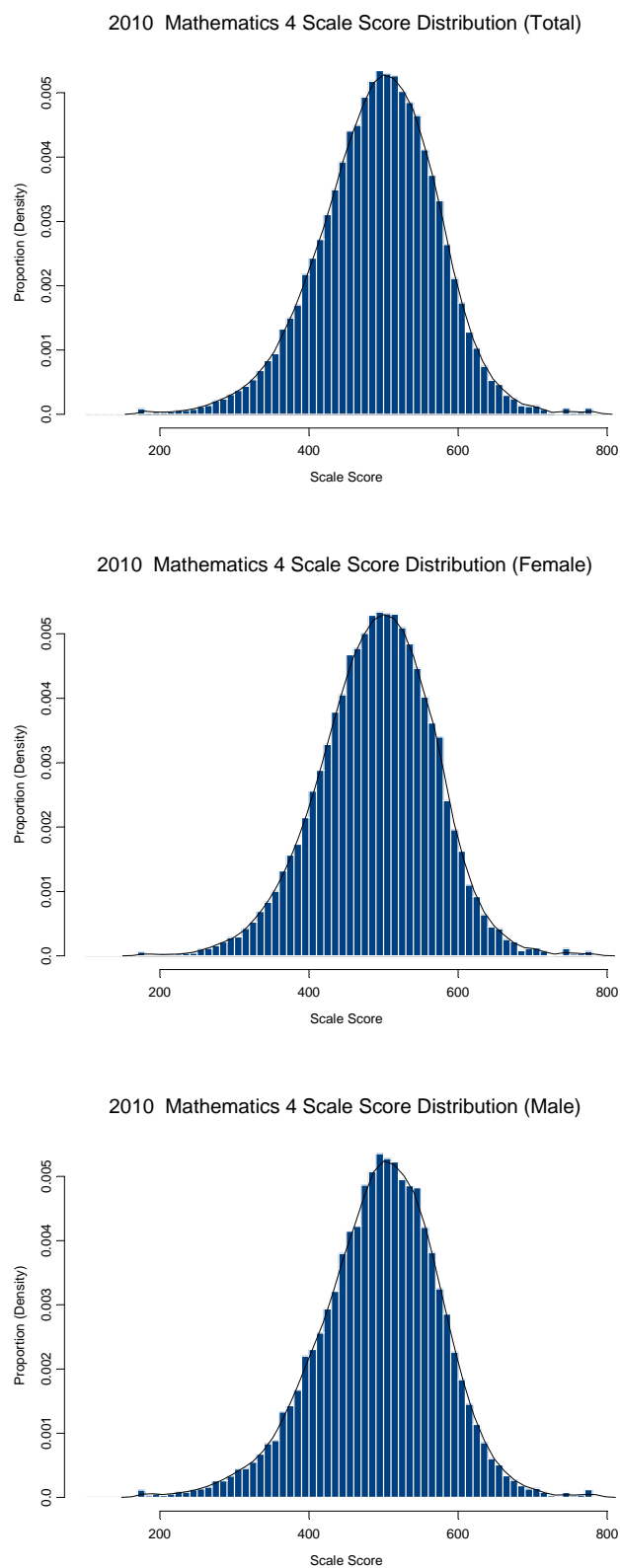


2010 Spanish Reading 4 Scale Score Distribution (Male)

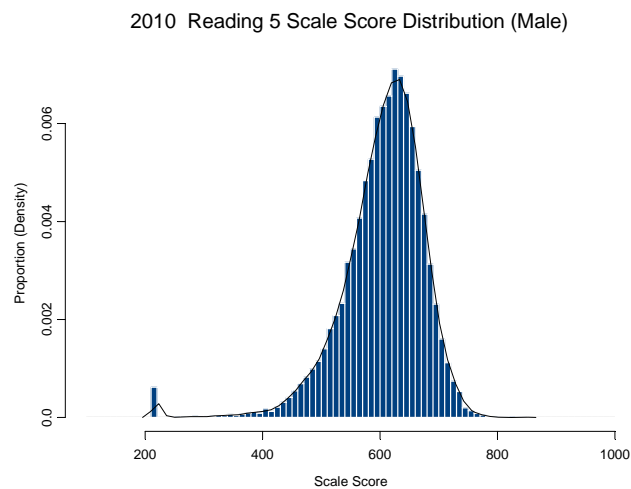
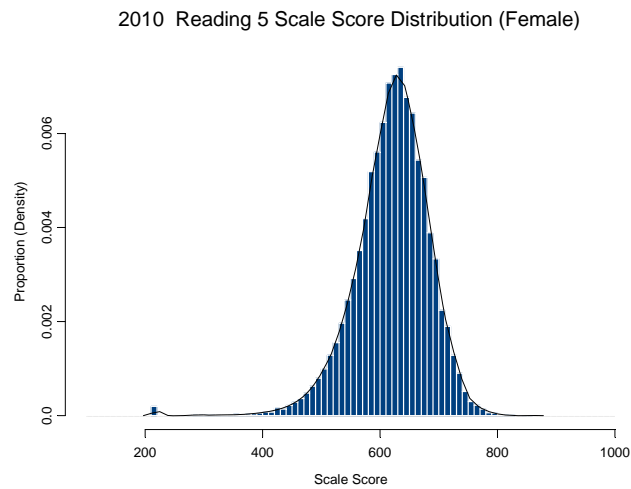
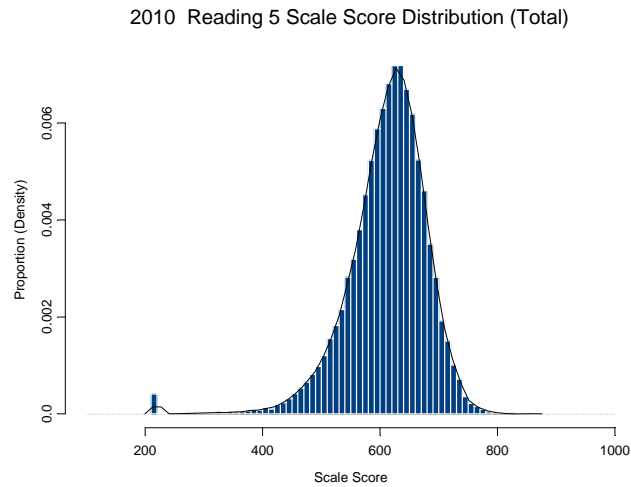


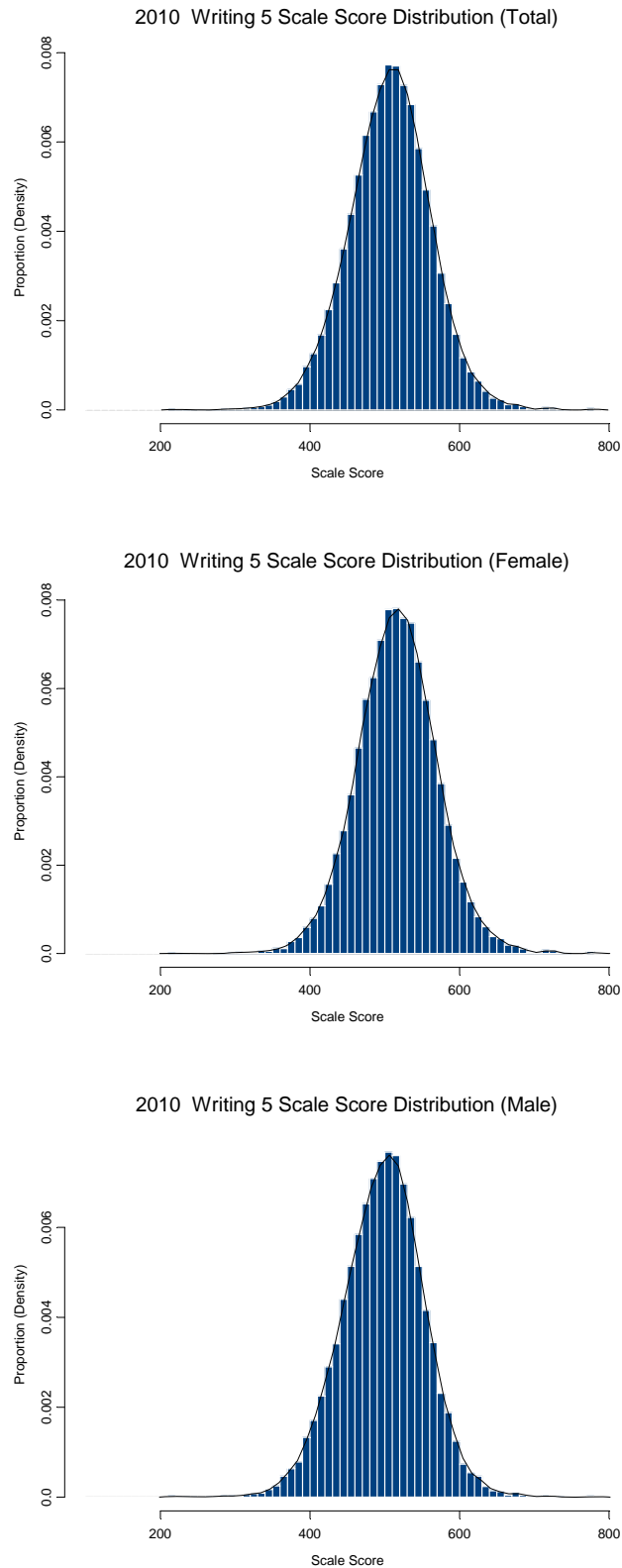
**Figure 42. Writing 4 Scale Score Distributions for the Total Population, Female, and Male Students**

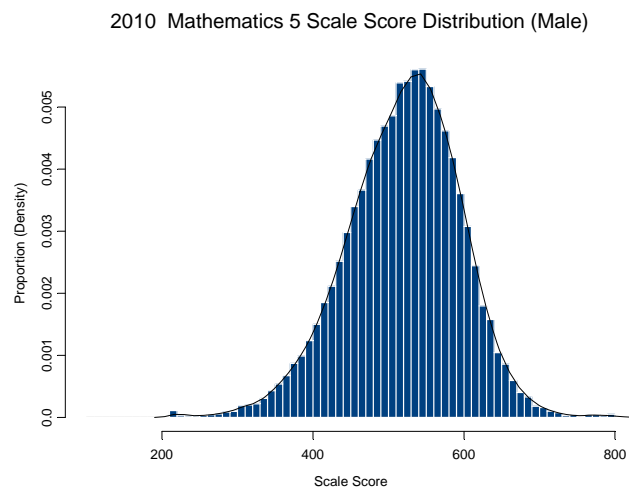
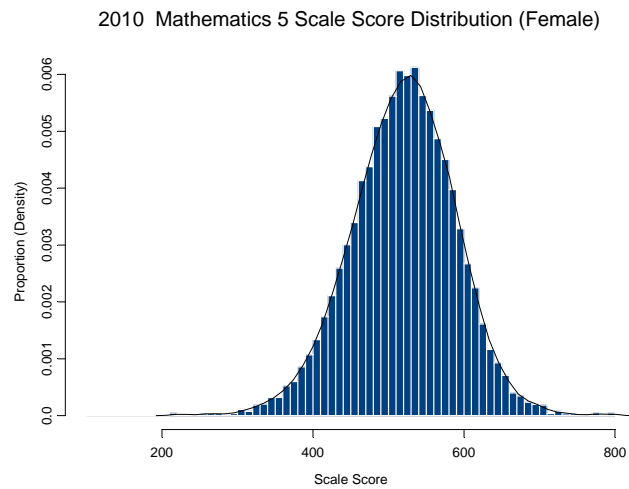
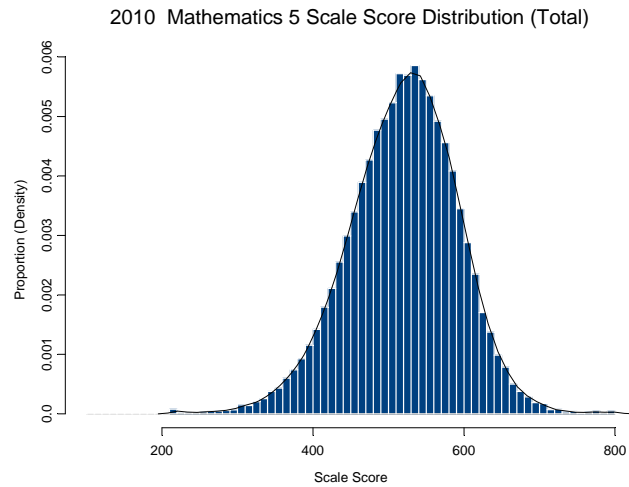
**Figure 43. Spanish Writing 4 Scale Score Distributions for the Total Population, Female, and Male Students**

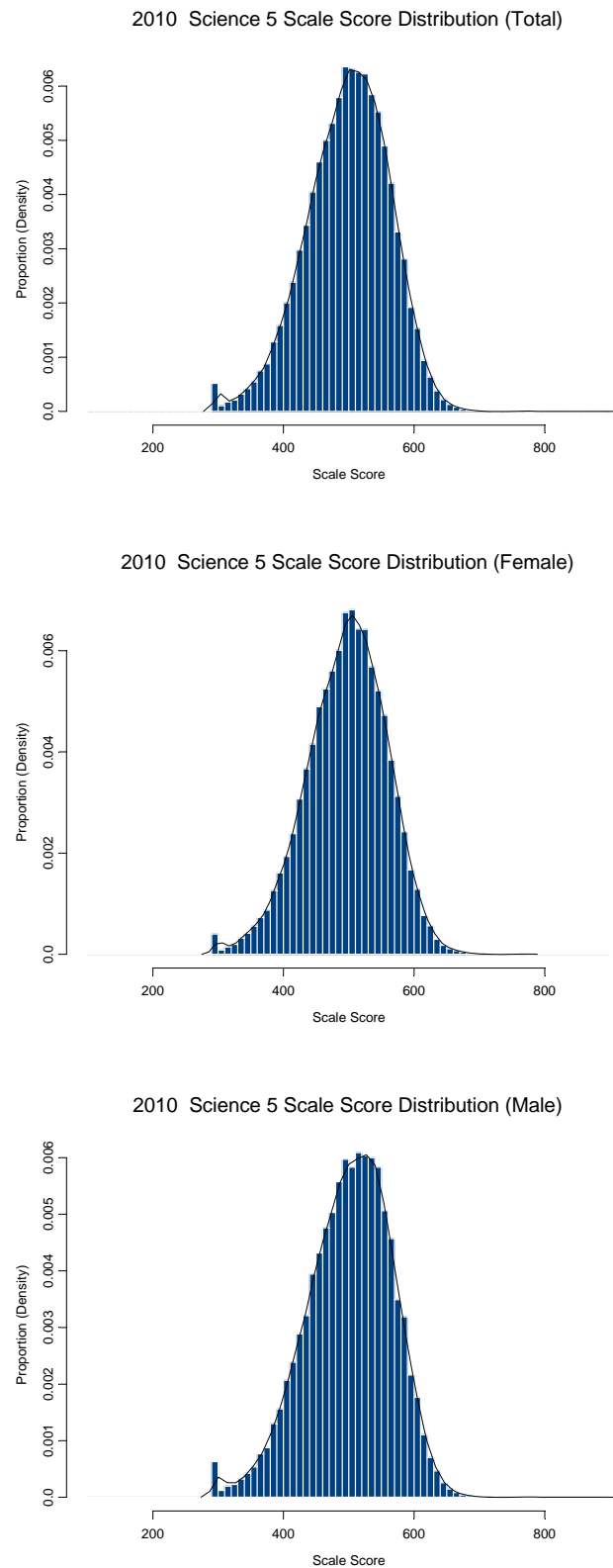
**Figure 44. Mathematics 4 Scale Score Distributions for the Total Population, Female, and Male Students**



**Figure 45. Reading 5 Scale Score Distributions for the Total Population, Female, and Male Students**

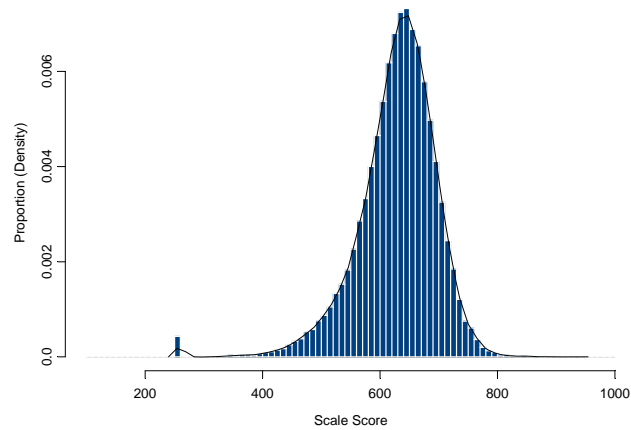
**Figure 46. Writing 5 Scale Score Distributions for the Total Population, Female, and Male Students**

**Figure 47. Mathematics 5 Scale Score Distributions for the Total Population, Female, and Male Students**

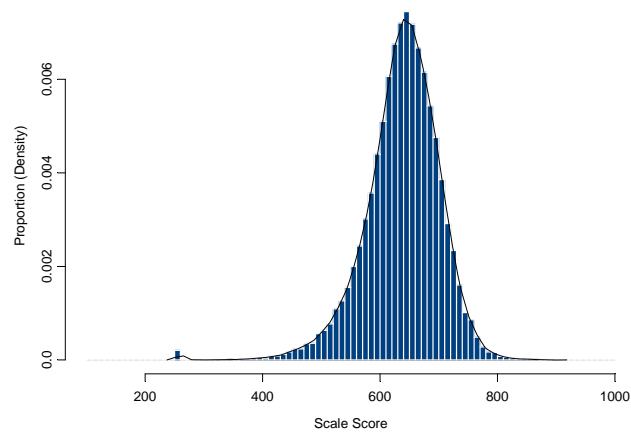
**Figure 48. Science 5 Scale Score Distributions for the Total Population, Female and Male Students**

**Figure 49. Reading 6 Scale Score Distributions for the Total Population, Female, and Male Students**

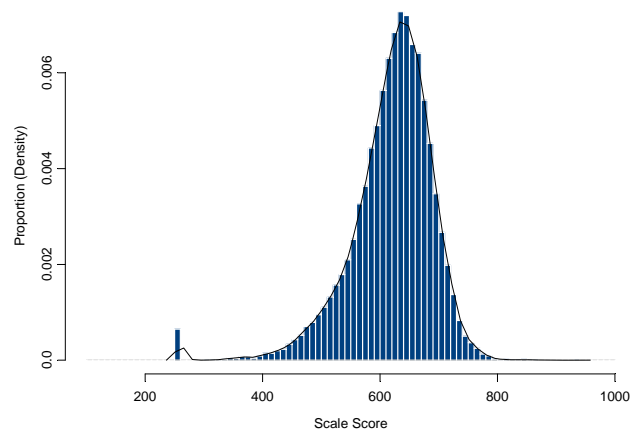
2010 Reading 6 Scale Score Distribution (Total)

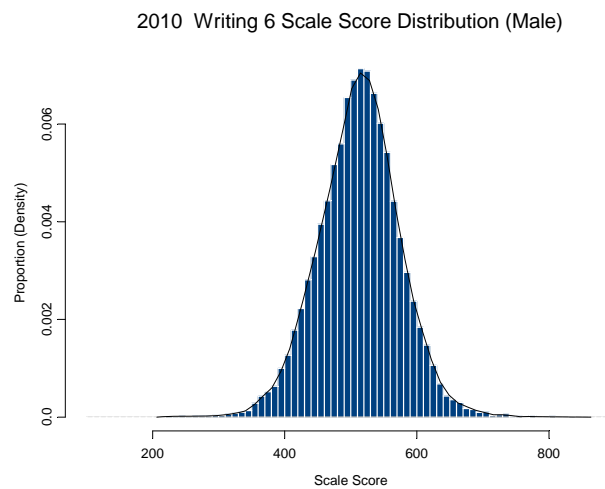
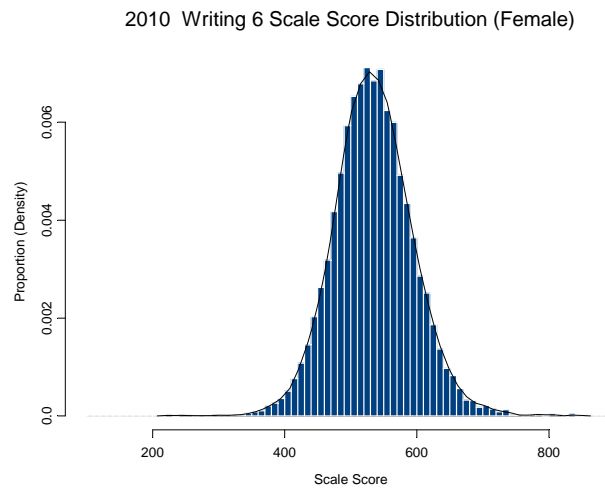
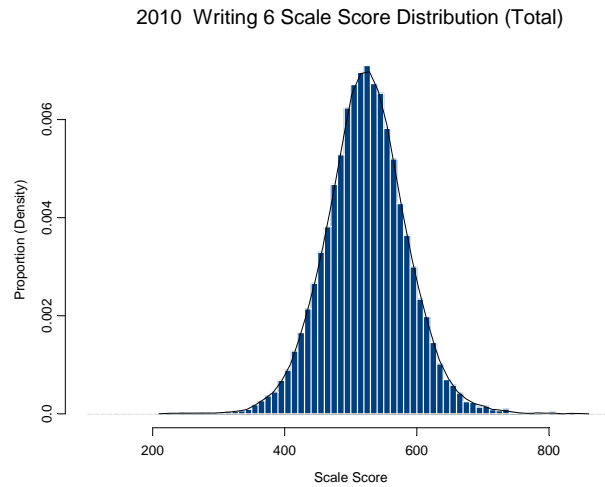


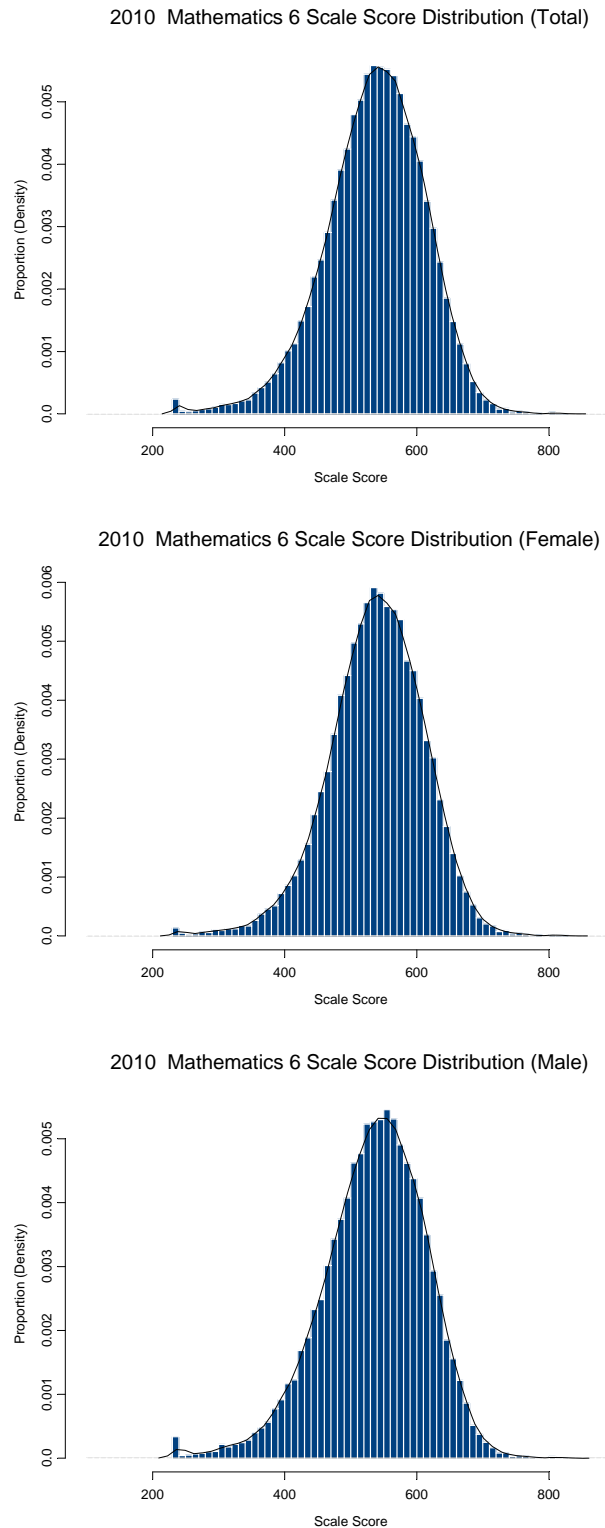
2010 Reading 6 Scale Score Distribution (Female)

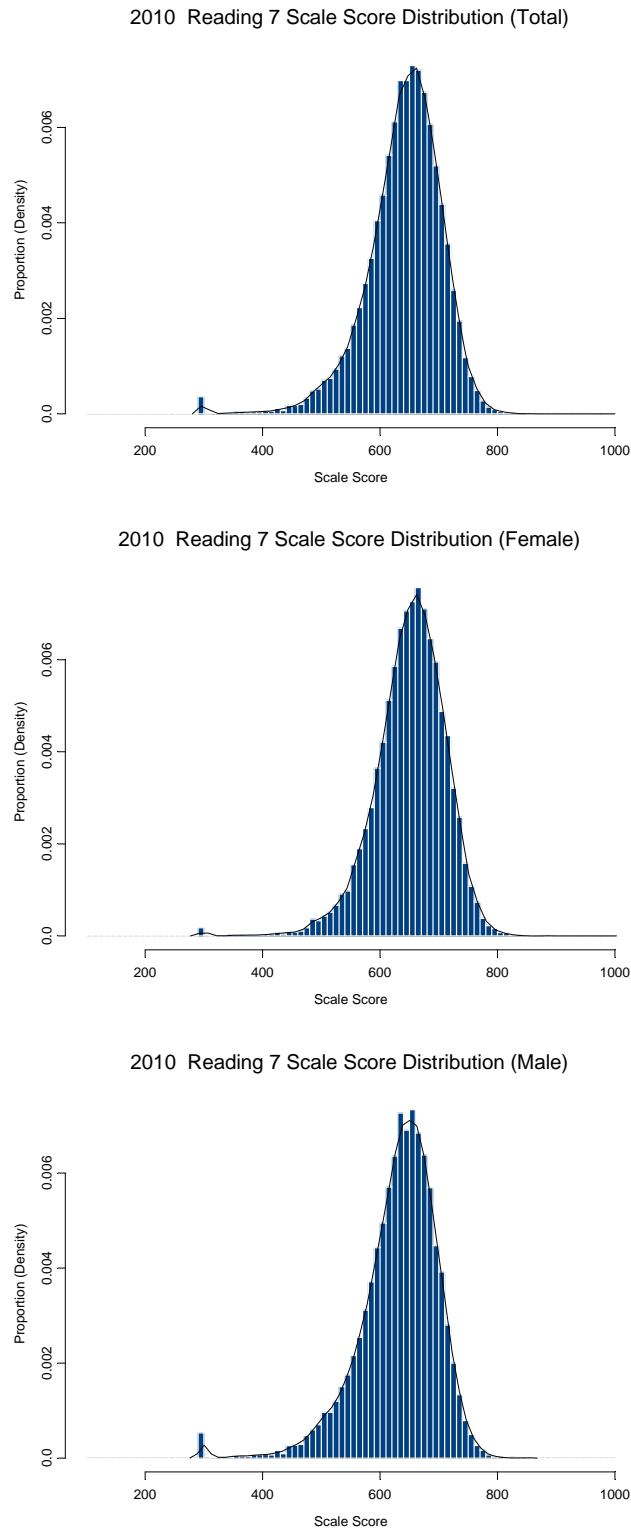


2010 Reading 6 Scale Score Distribution (Male)

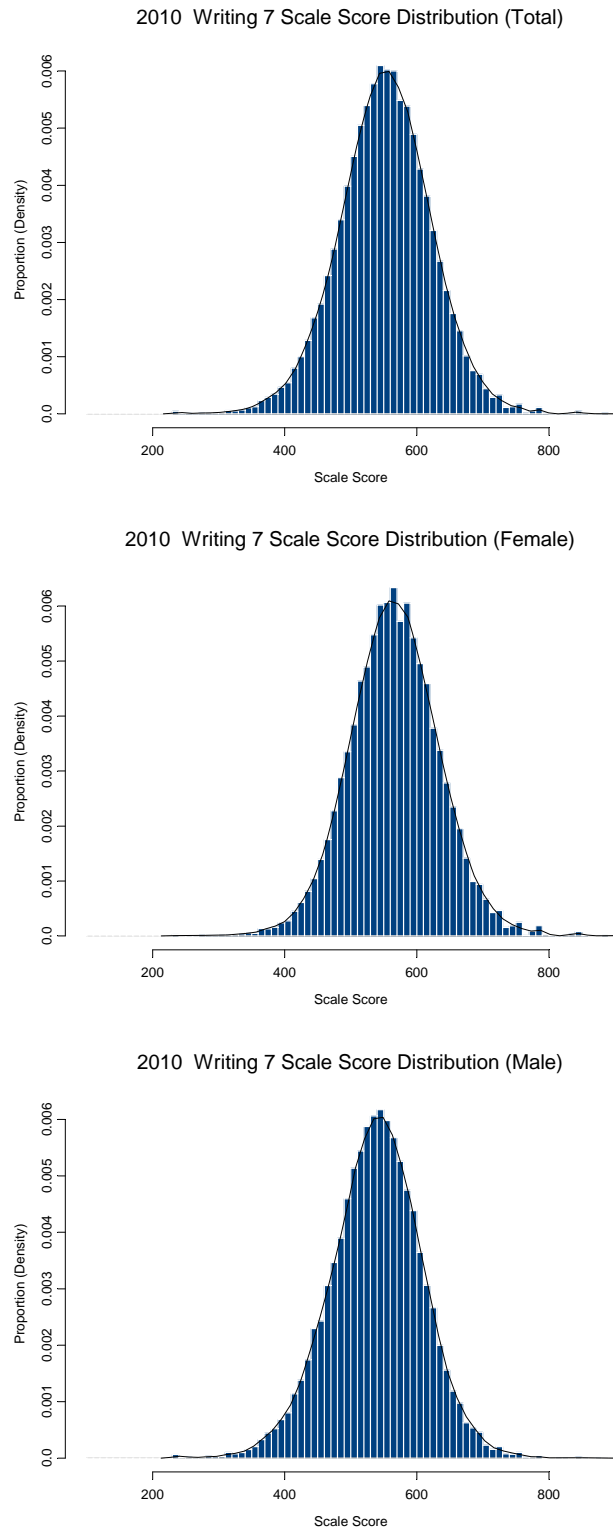


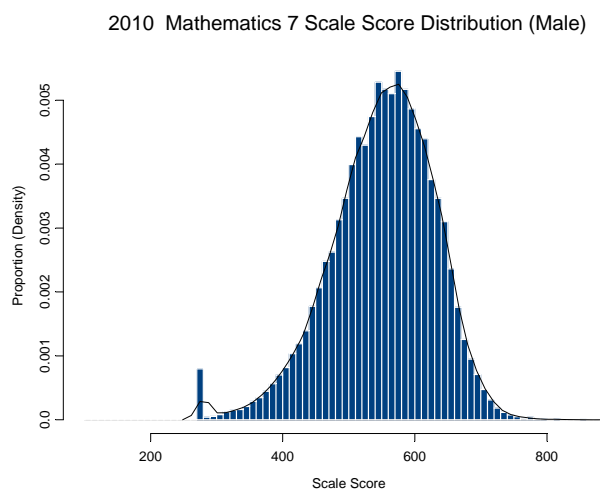
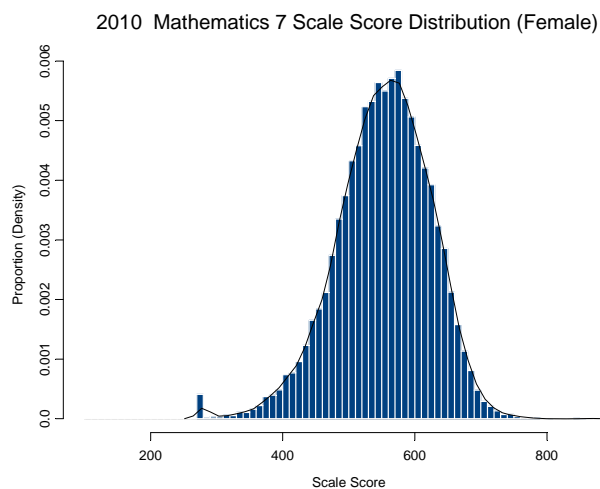
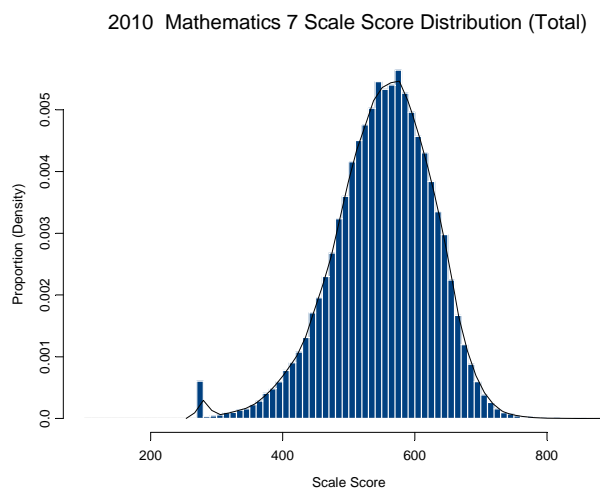
**Figure 50. Writing 6 Scale Score Distributions for the Total Population, Female, and Male Students**

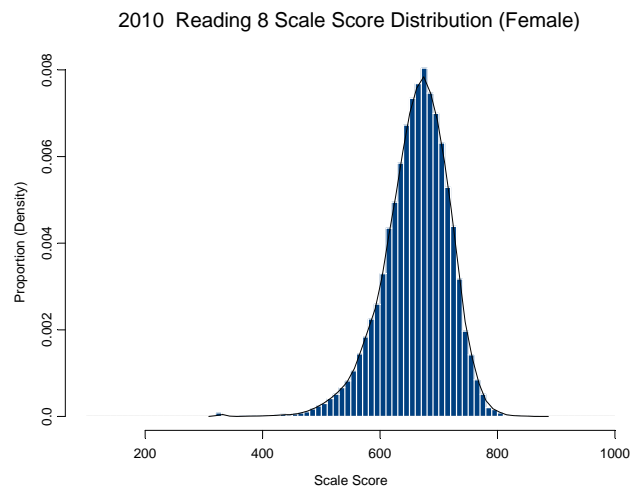
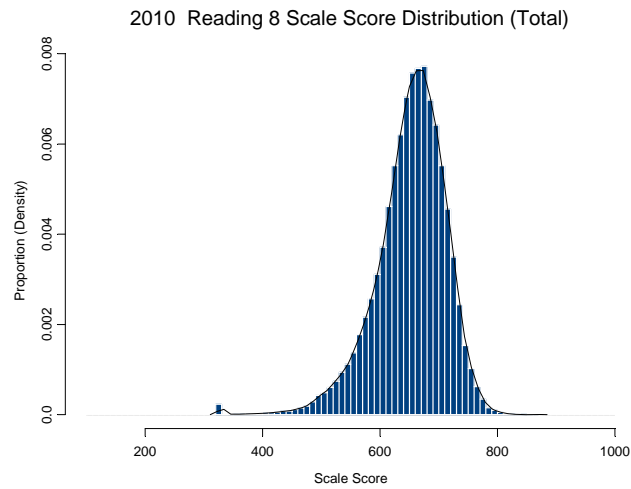
**Figure 51. Mathematics 6 Scale Score Distributions for the Total Population, Female, and Male Students**

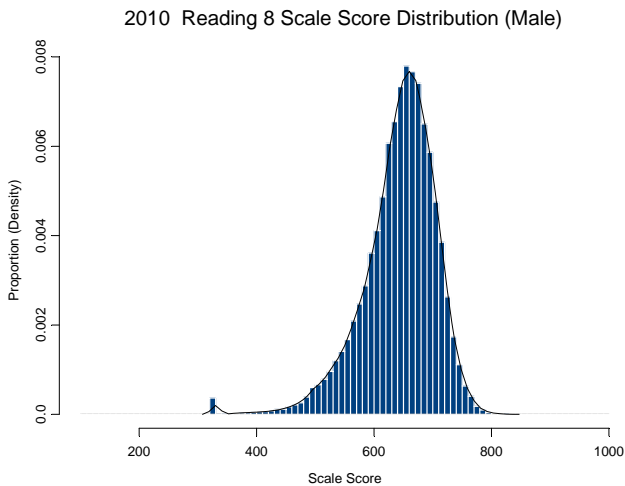
**Figure 52. Reading 7 Scale Score Distributions for the Total Population, Female, and Male Students**

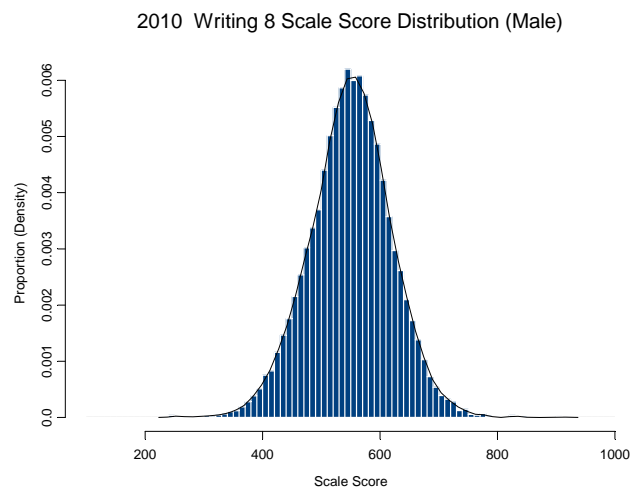
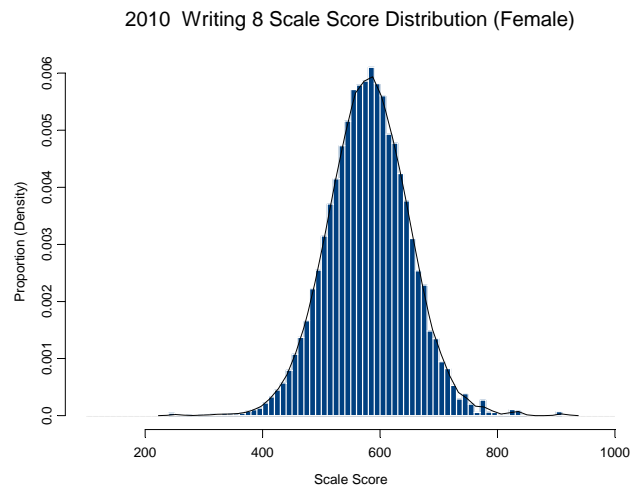
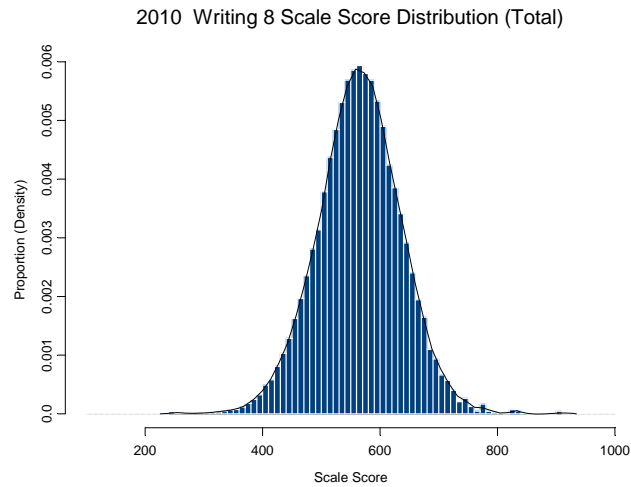


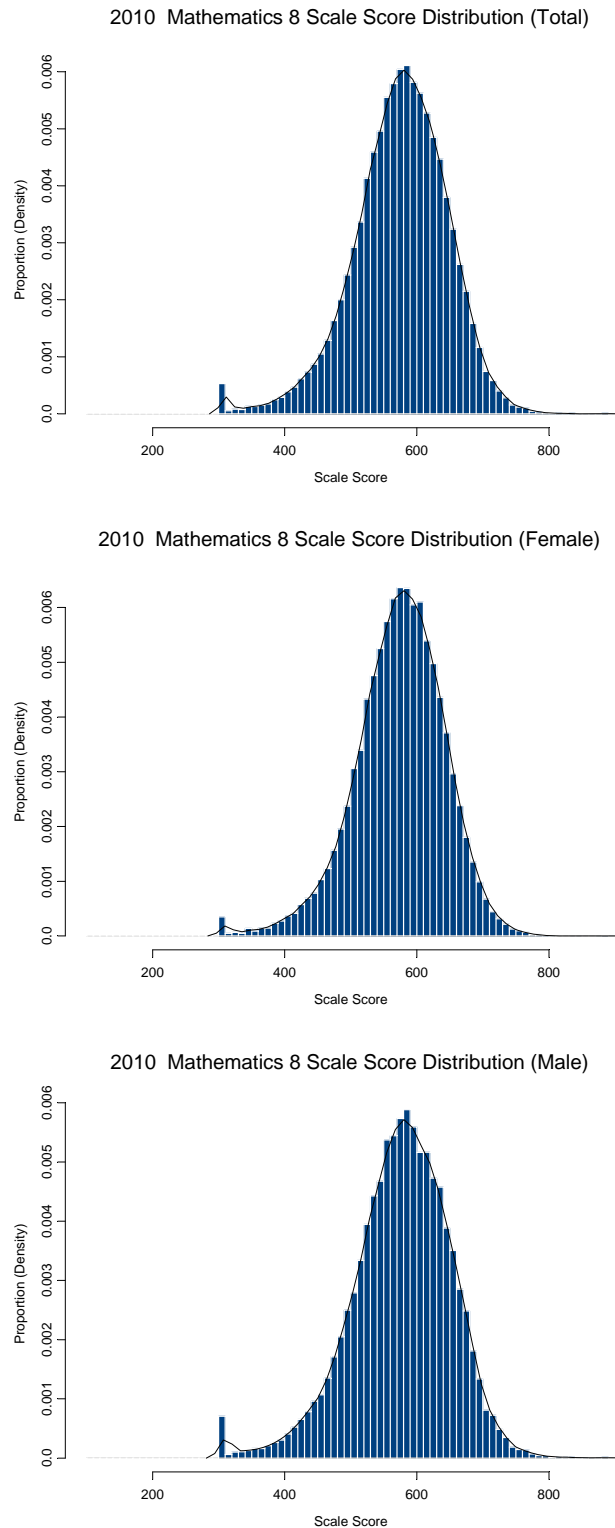
**Figure 53. Writing 7 Scale Score Distributions for the Total Population, Female, and Male Students**

**Figure 54. Mathematics 7 Scale Score Distributions for the Total Population, Female and Male Students**

**Figure 55. Reading 8 Scale Score Distributions for the Total Population, Female, and Male Students**

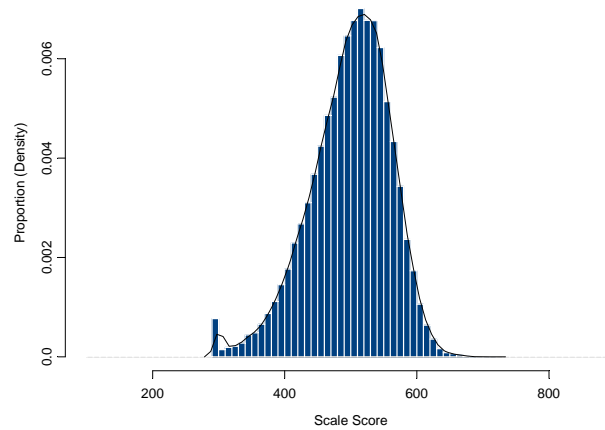


**Figure 56. Writing 8 Scale Score Distributions for the Total Population, Female, and Male Students**

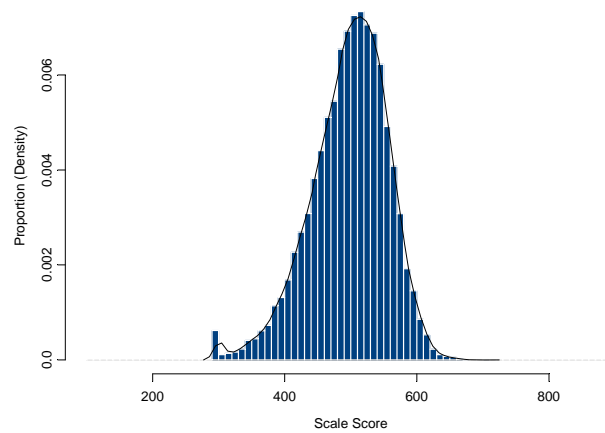
**Figure 57. Mathematics 8 Scale Score Distributions for the Total Population, Female, and Male Students**

**Figure 58. Science 8 Scale Score Distributions for the Total Population, Female, and Male Students**

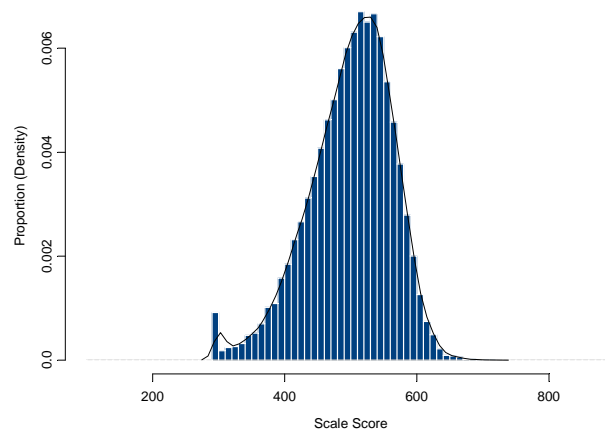
2010 Science 8 Scale Score Distribution (Total)

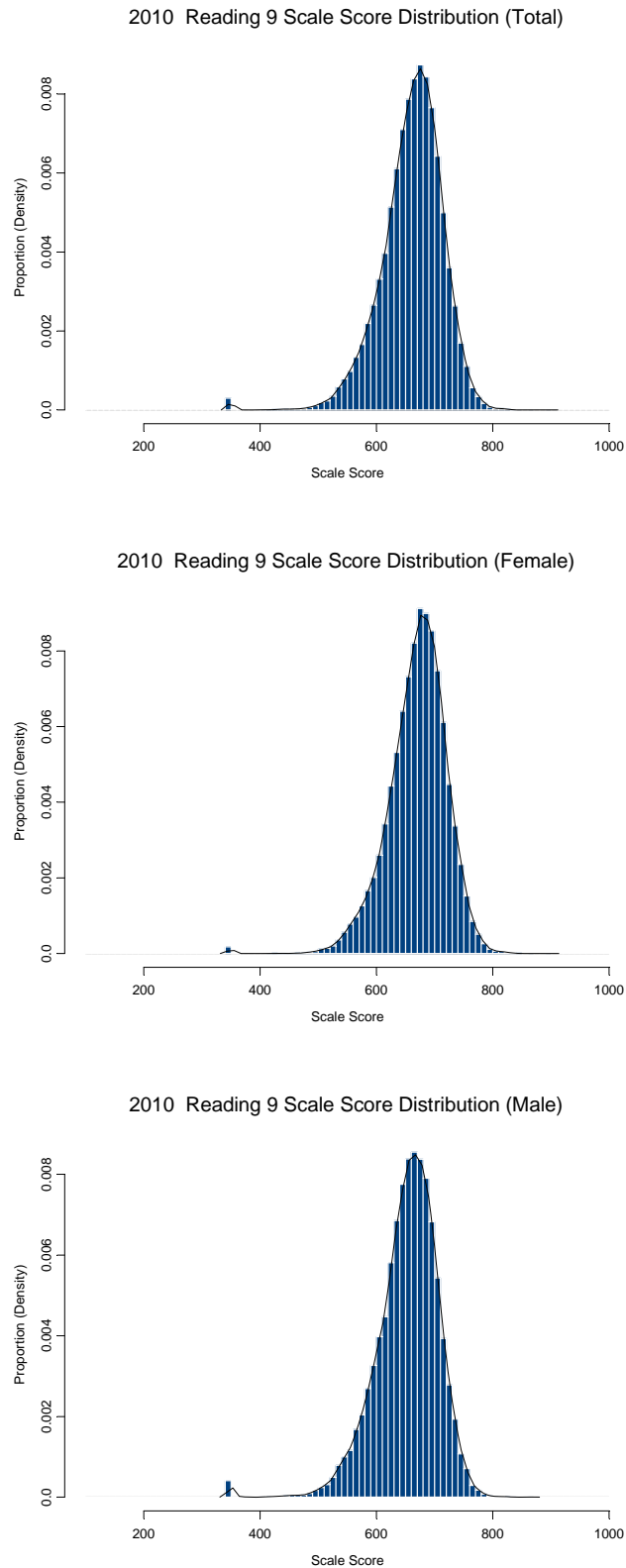


2010 Science 8 Scale Score Distribution (Female)

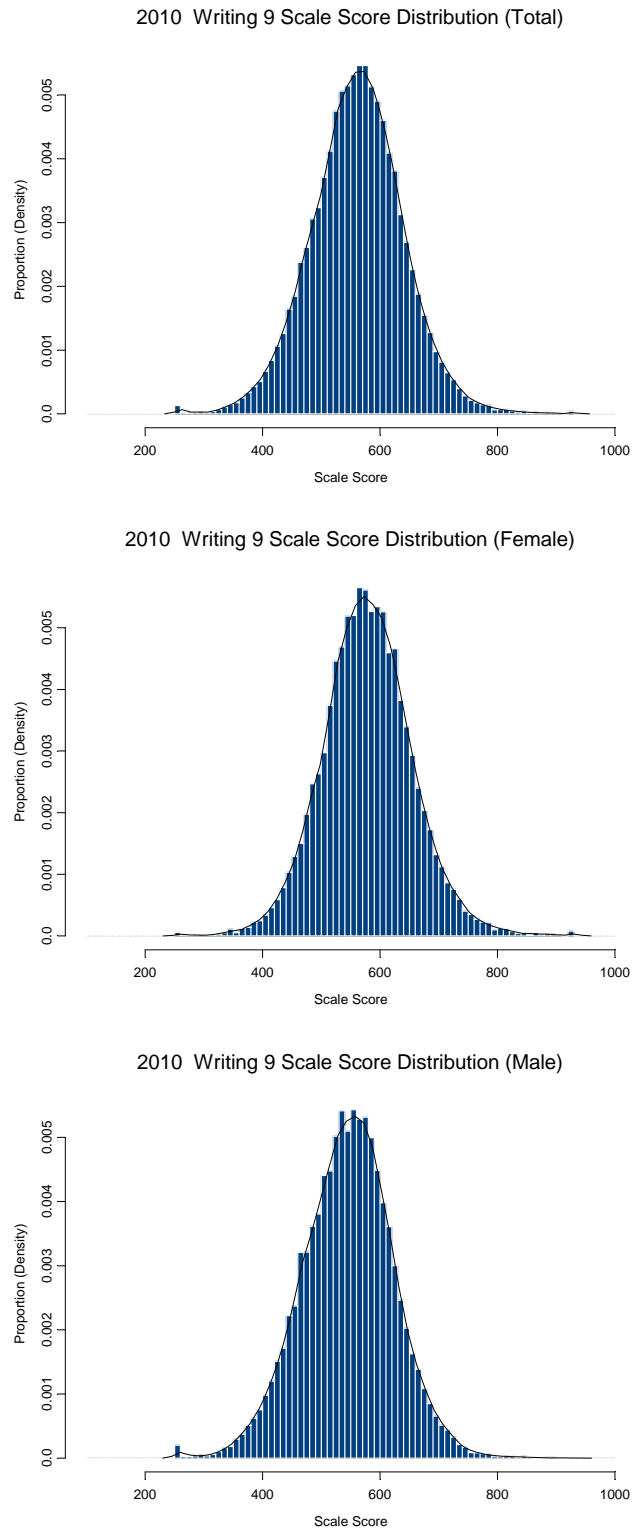


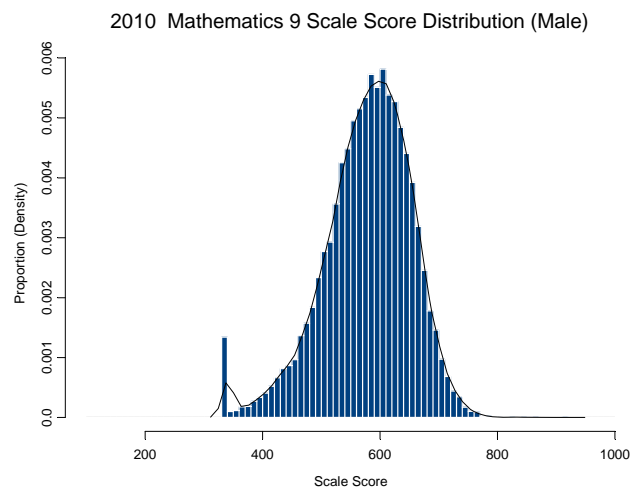
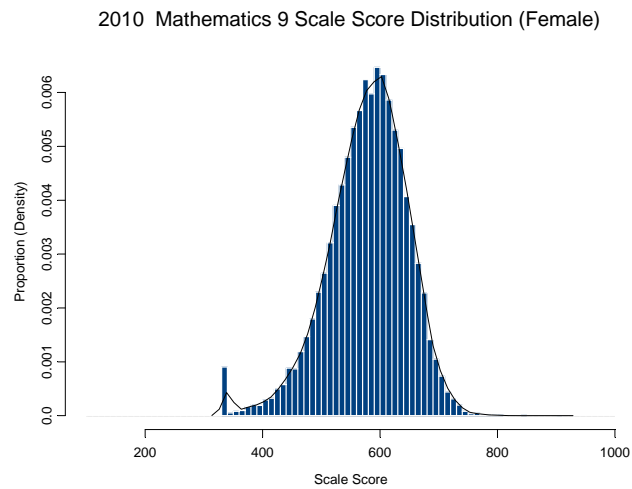
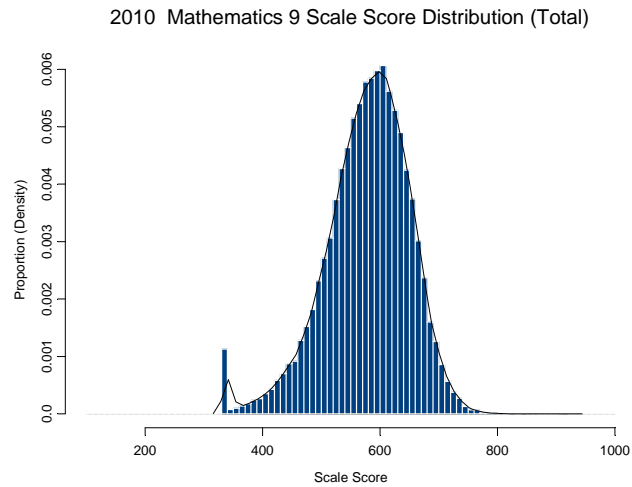
2010 Science 8 Scale Score Distribution (Male)

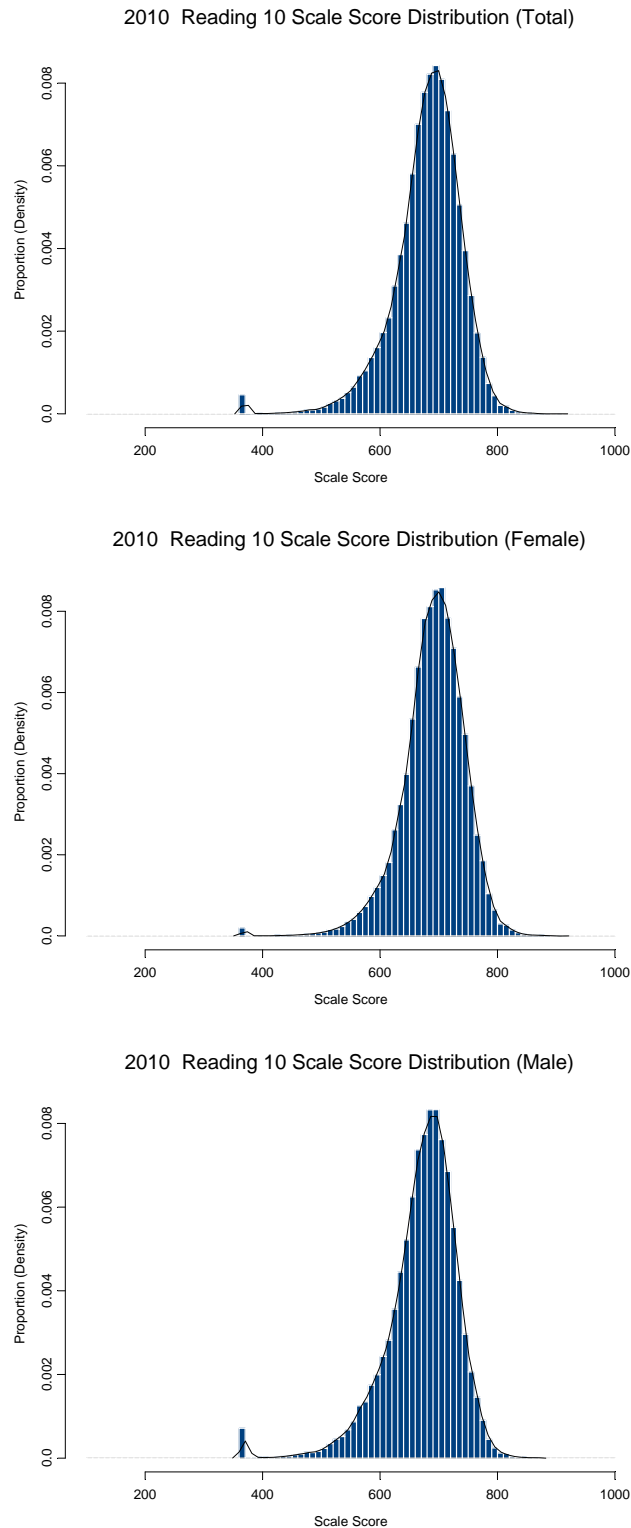


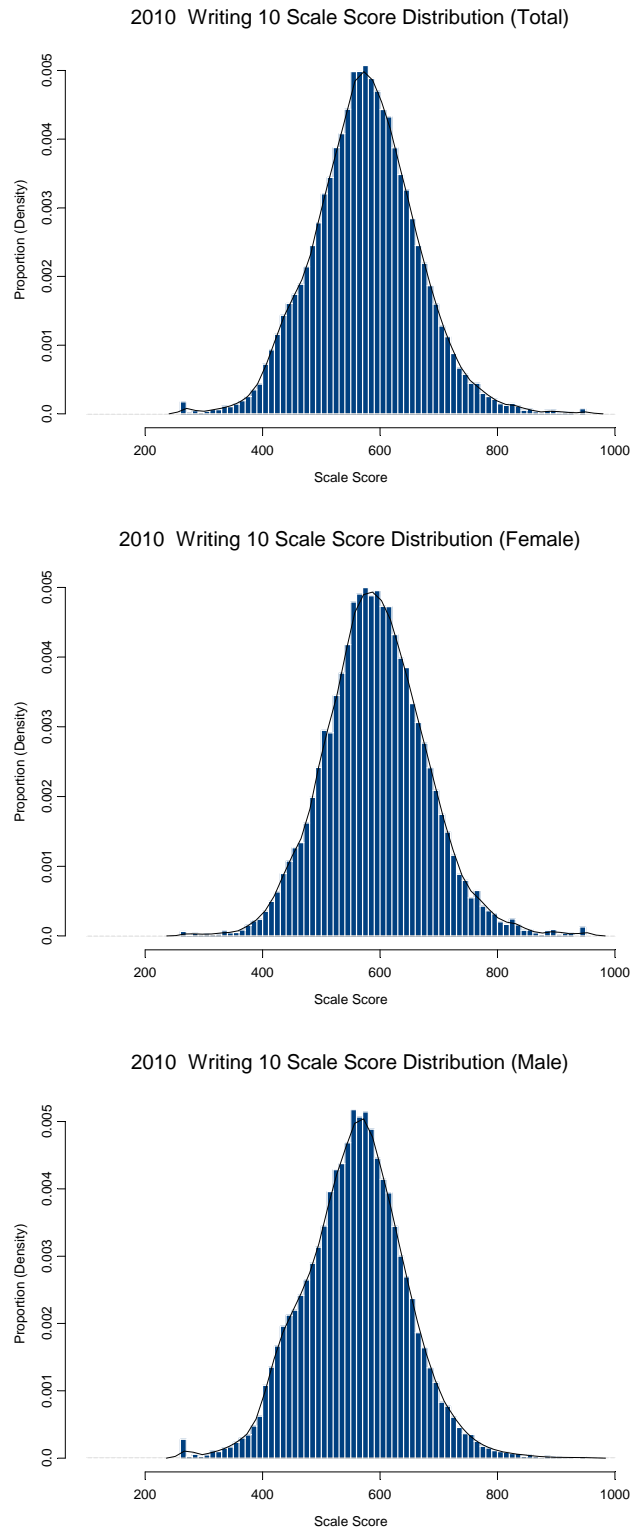
**Figure 59. Reading 9 Scale Score Distributions for the Total Population, Female, and Male Students**

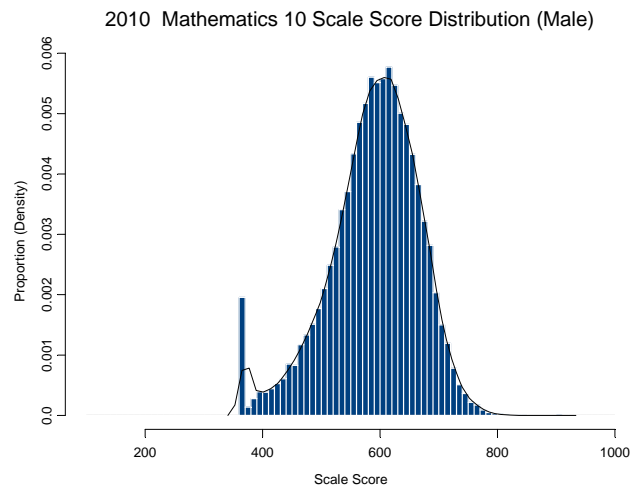
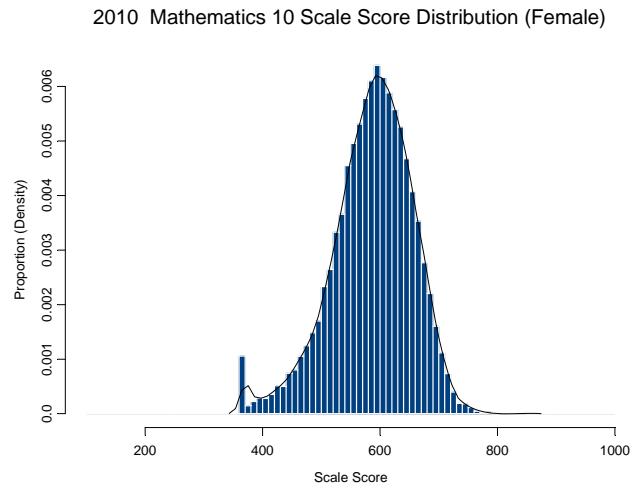
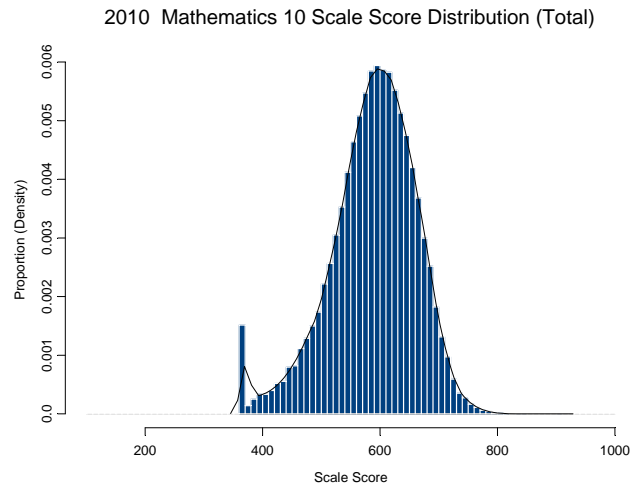


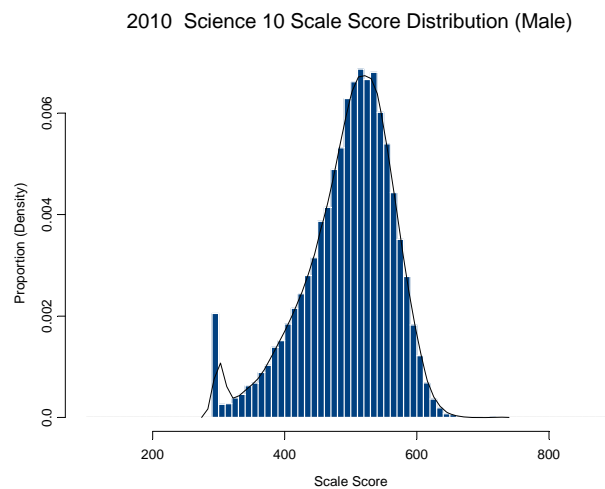
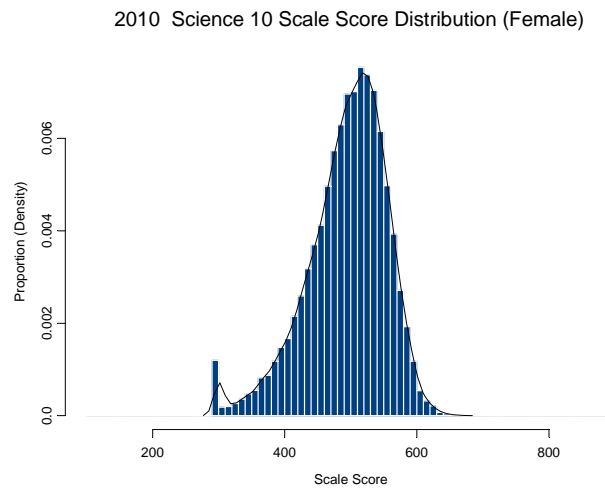
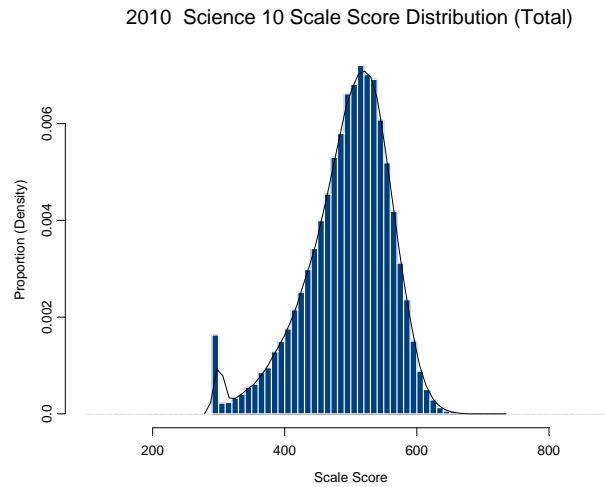
**Figure 60. Writing 9 Scale Score Distributions for the Total Population, Female, and Male Students**

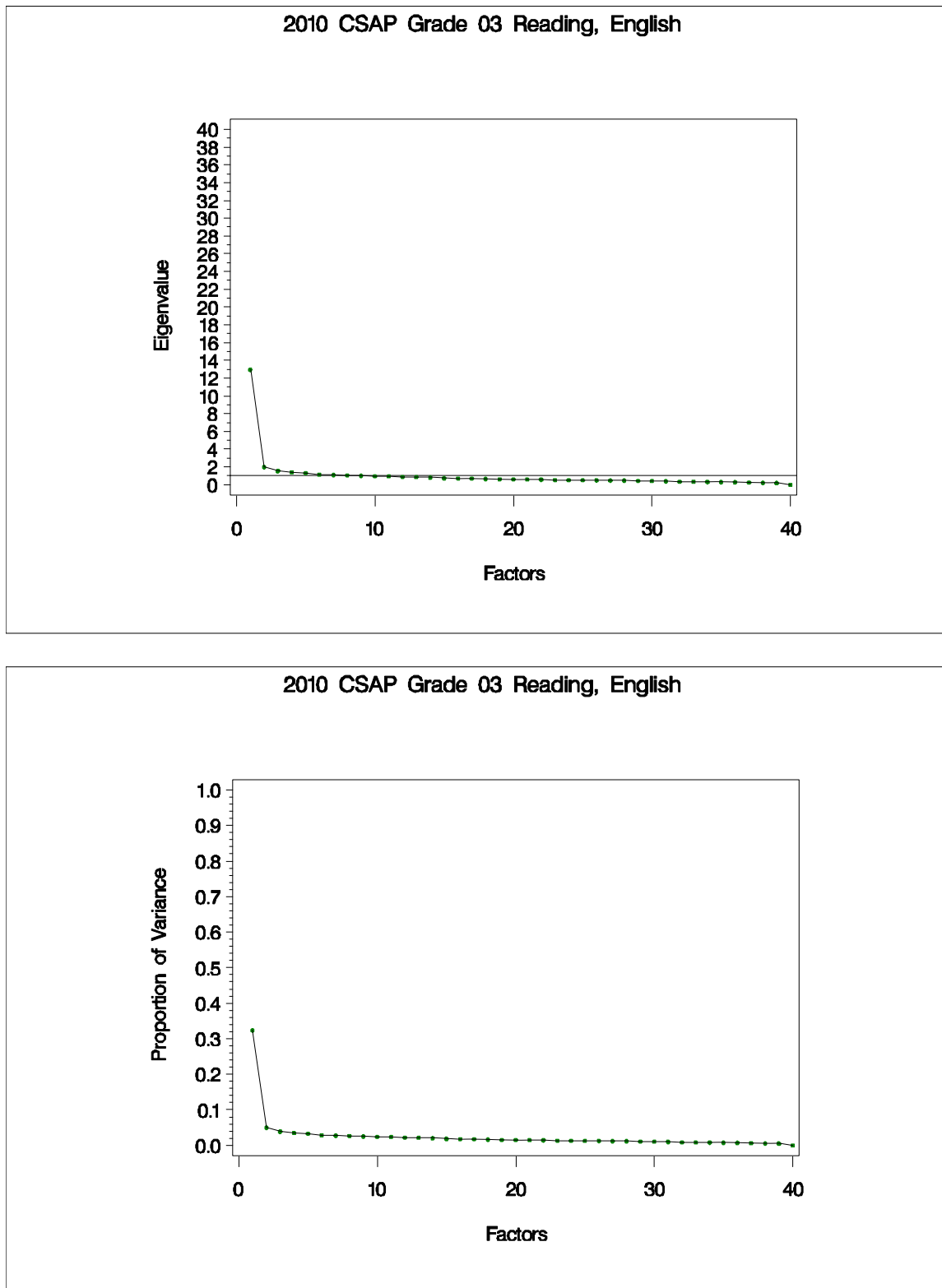
**Figure 61. Mathematics 9 Scale Score Distributions for the Total Population, Female, and Male Students**

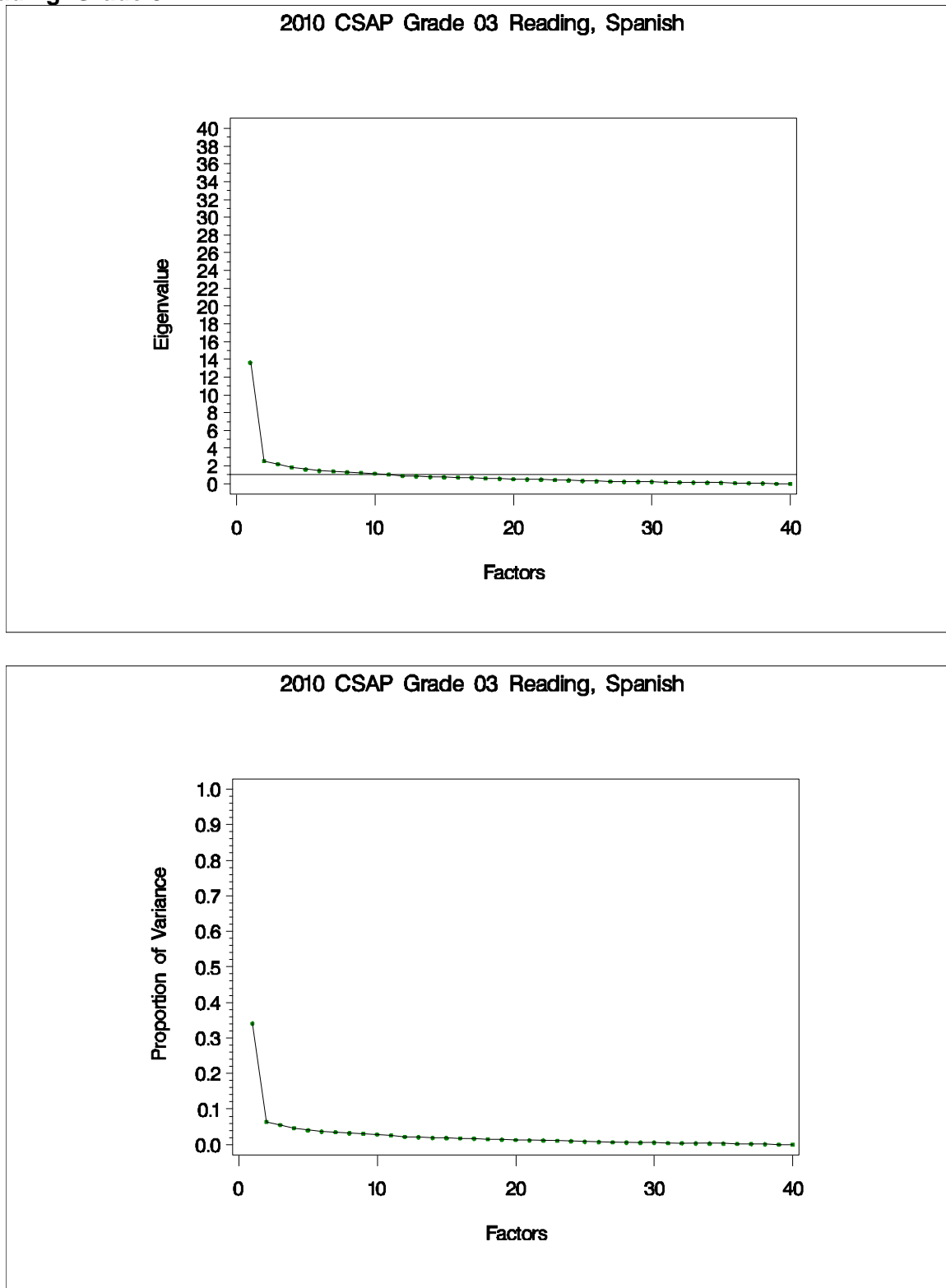
**Figure 62. Reading 10 Scale Score Distributions for the Total Population, Female, and Male Students**

**Figure 63. Writing 10 Scale Score Distributions for the Total Population, Female, and Male Students**

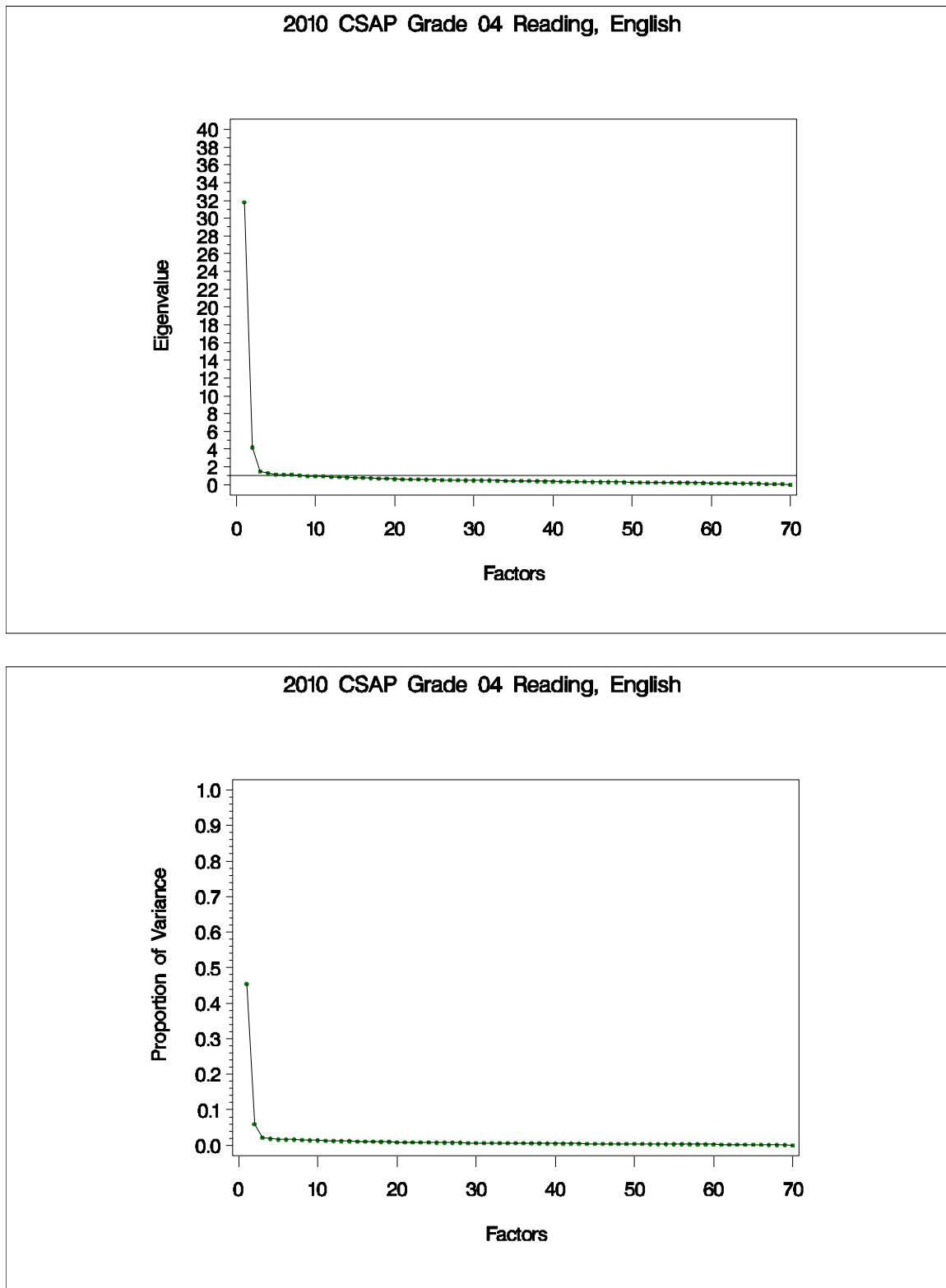
**Figure 64. Mathematics 10 Scale Score Distributions for the Total Population, Female, and Male Students**

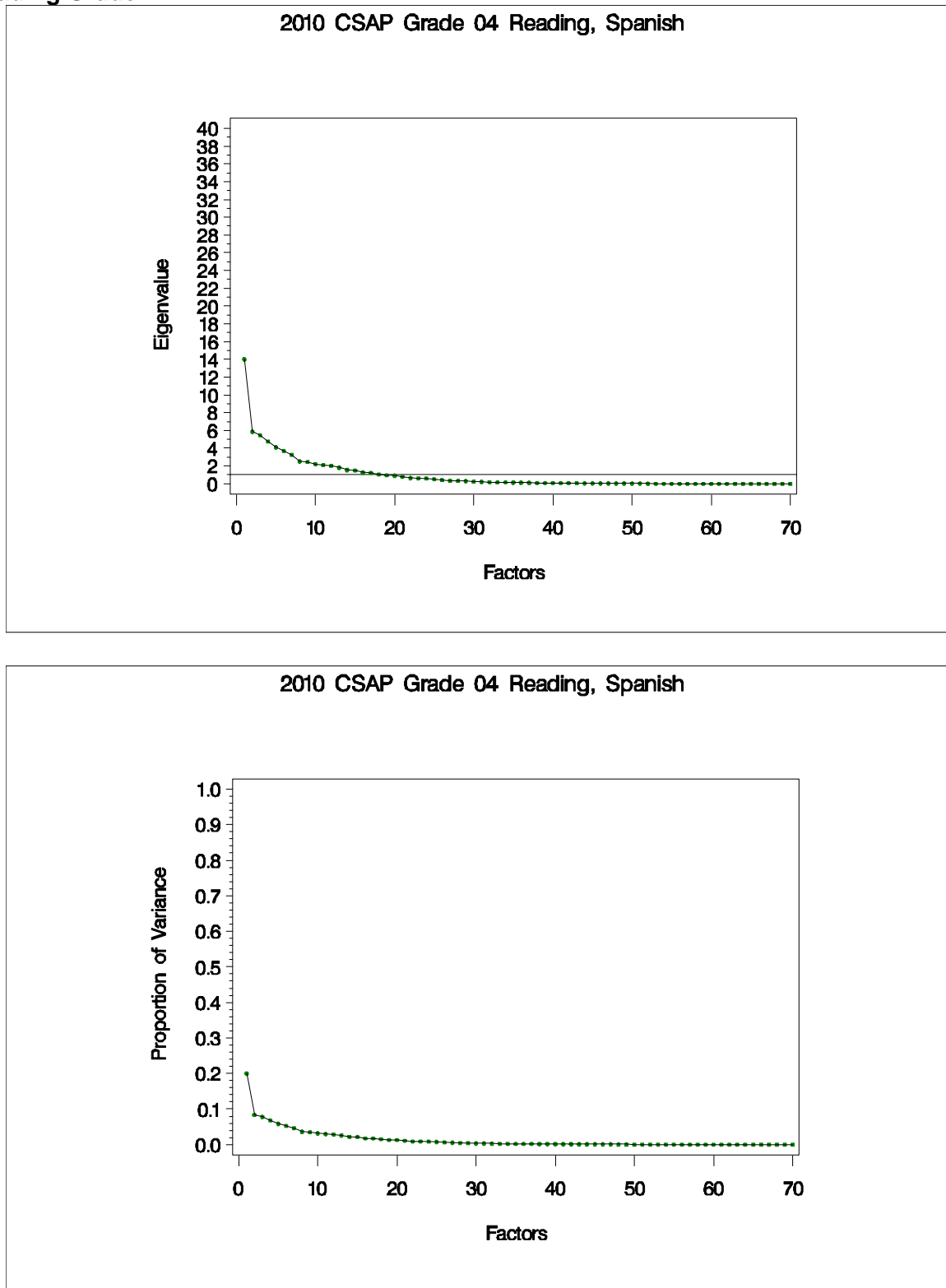
**Figure 65. Science 10 Scale Score Distributions for the Total Population, Female, and Male Students**

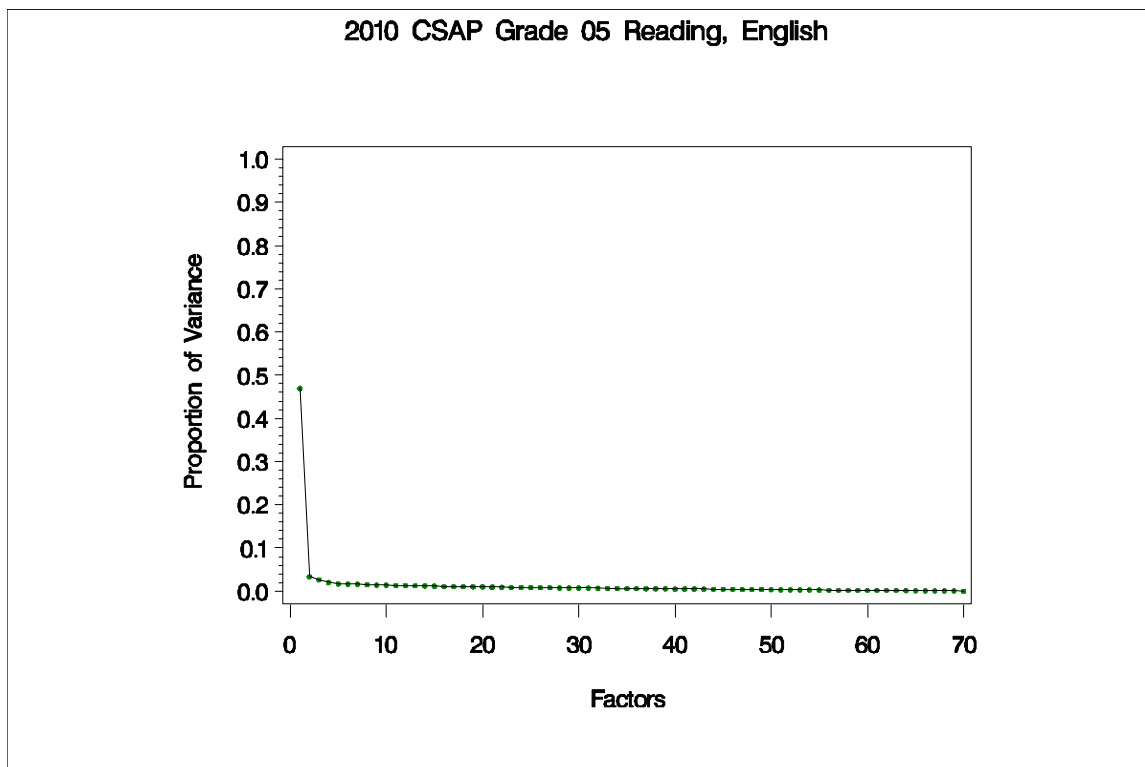
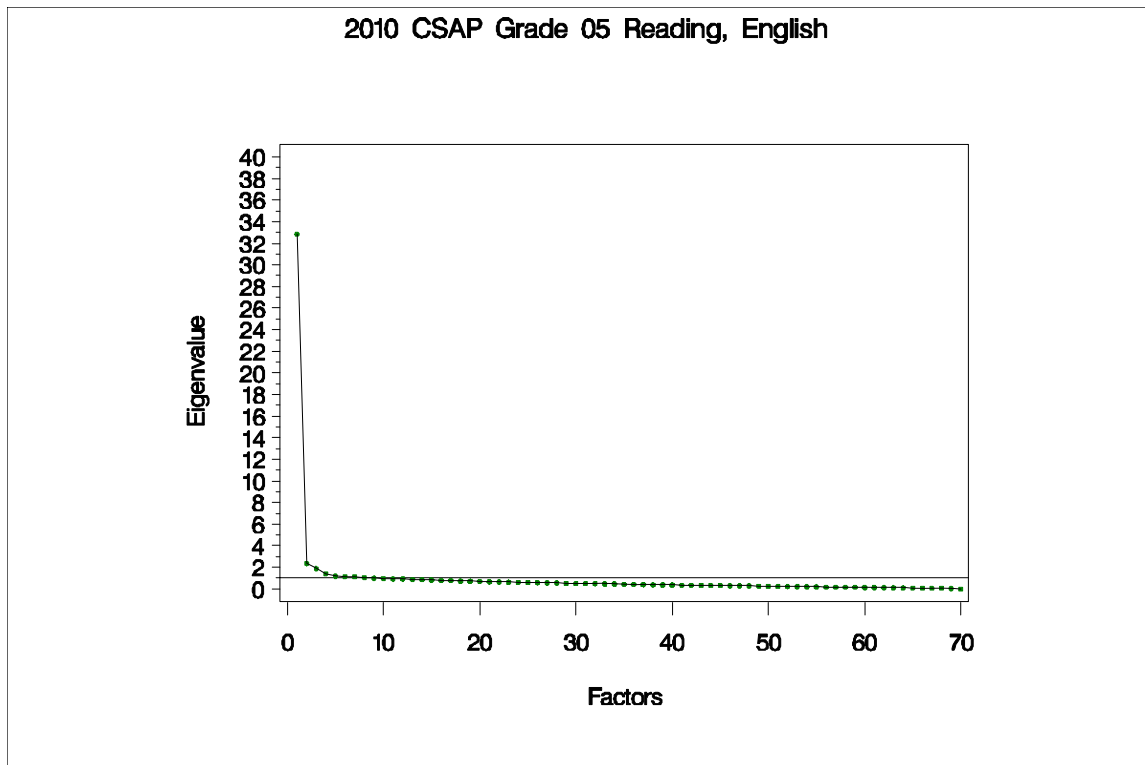
**Figure 66. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 3**

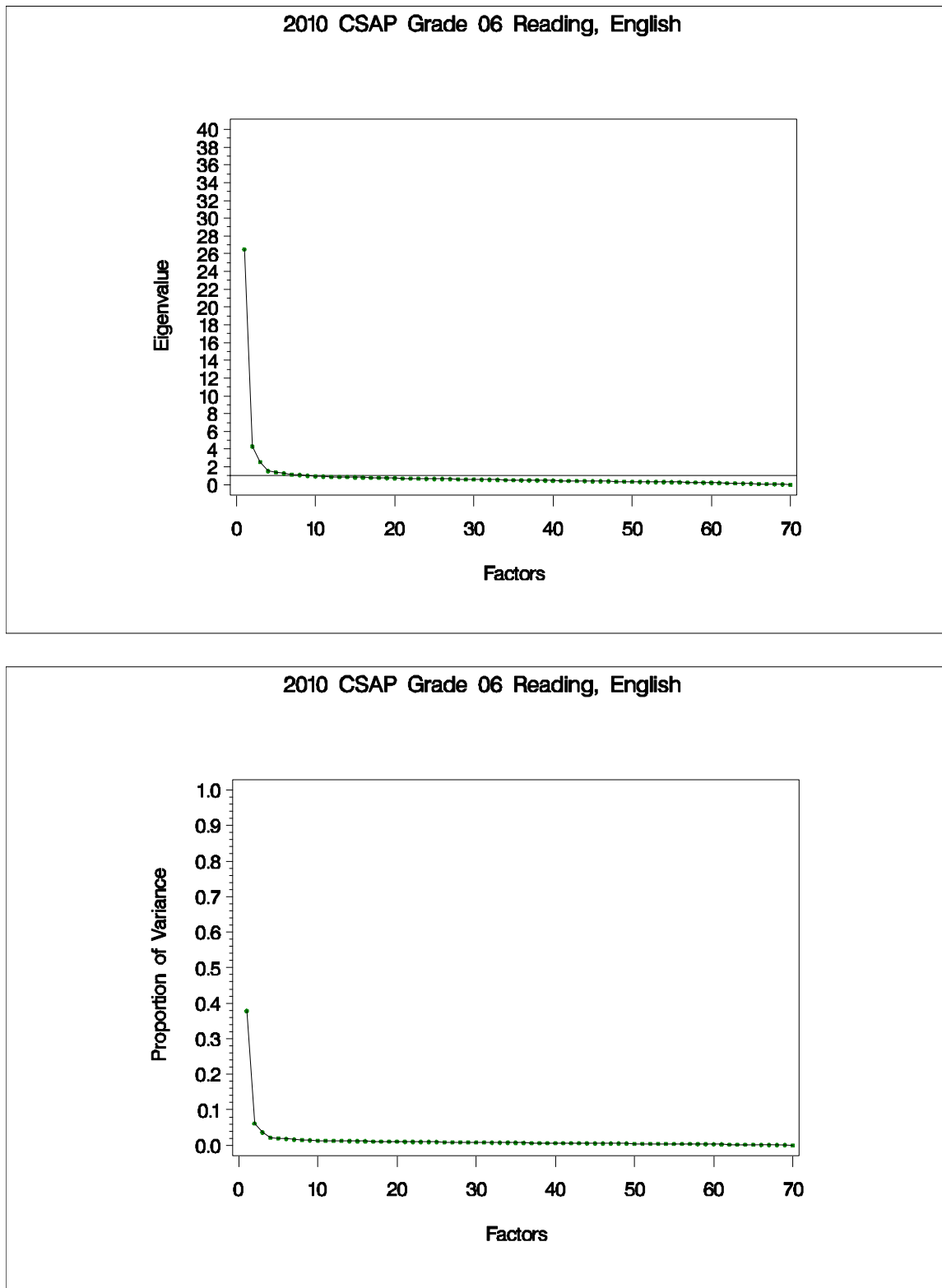
**Figure 67. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Reading Grade 3**

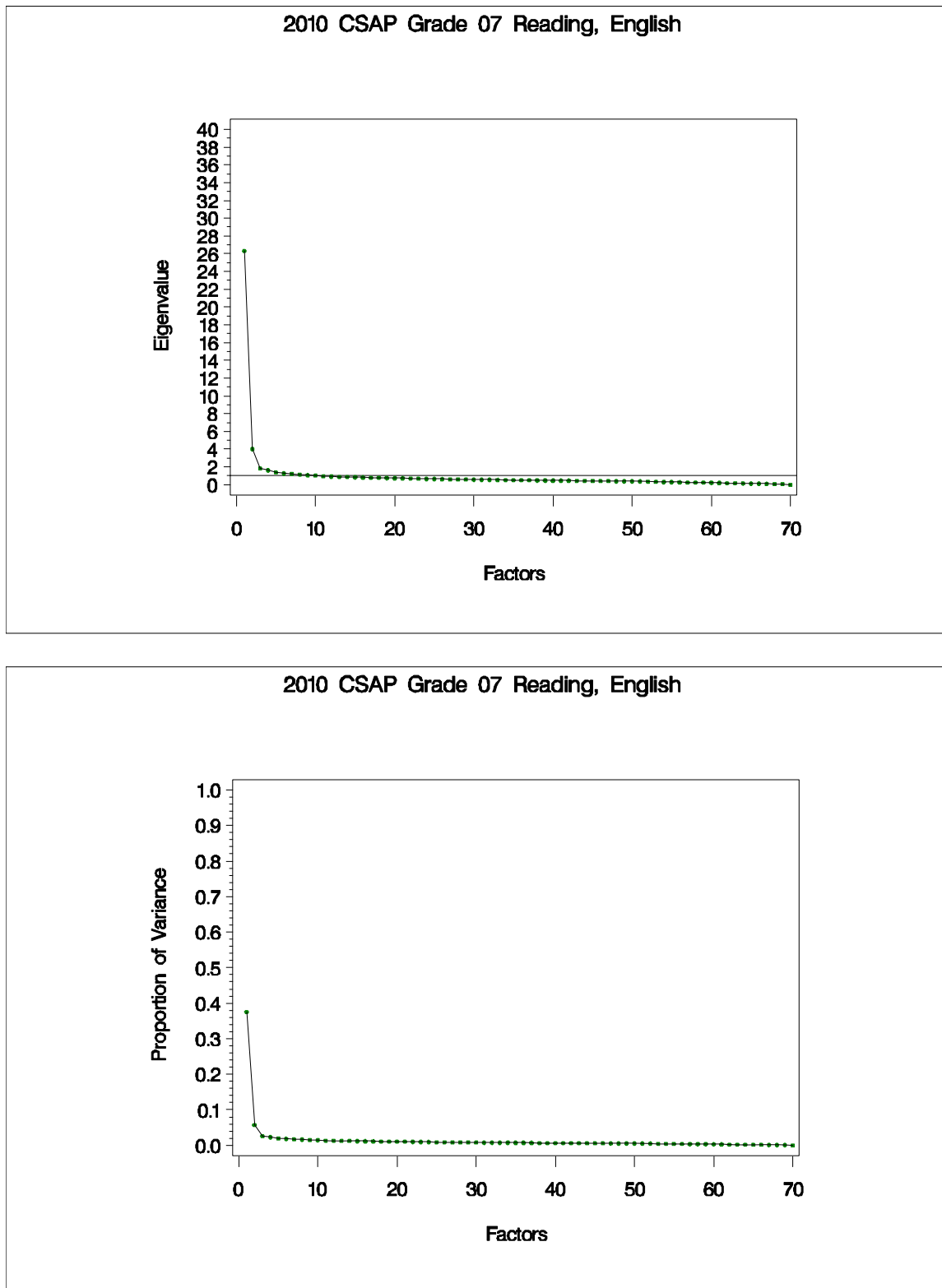


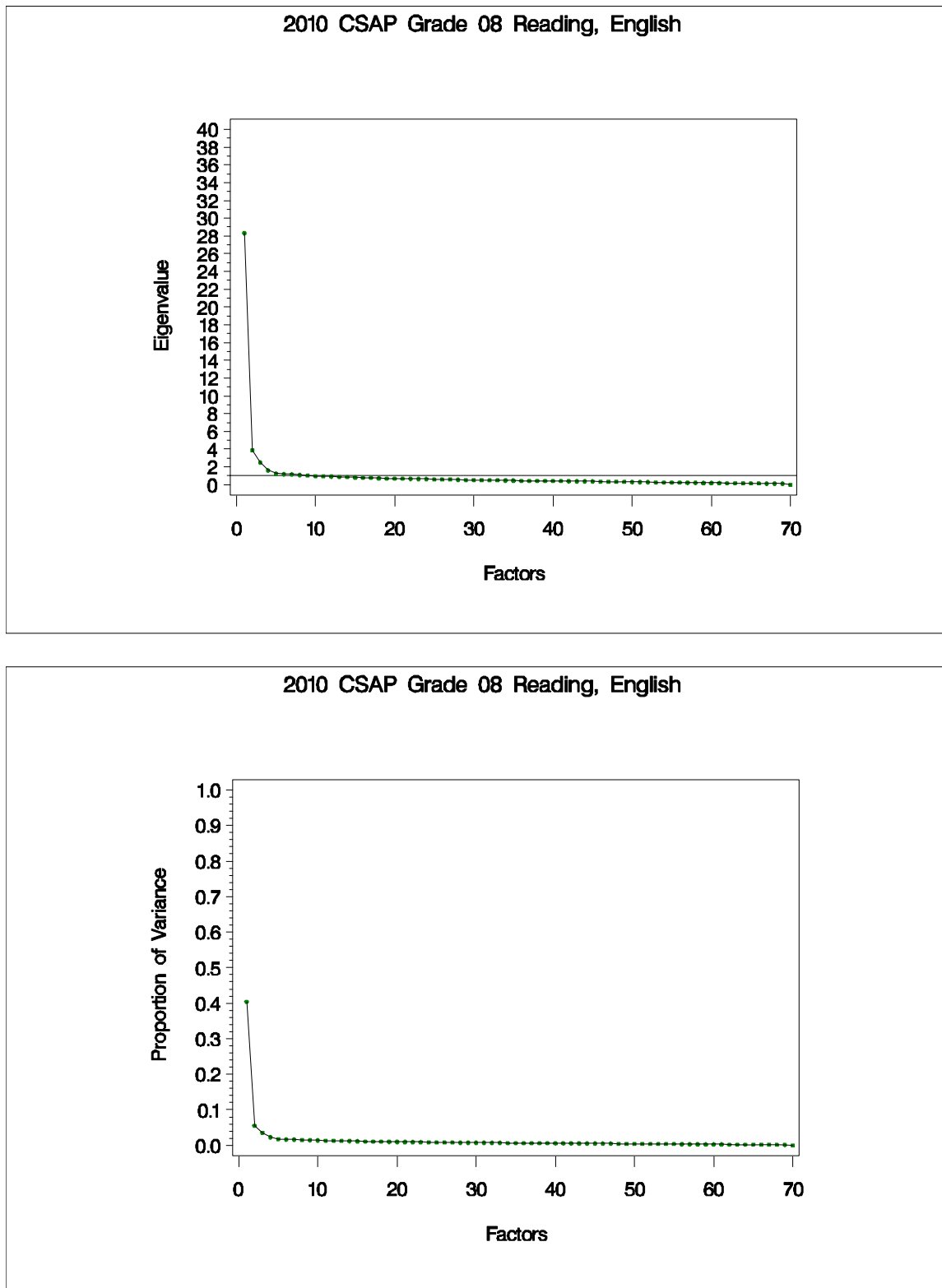
**Figure 68. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 4**

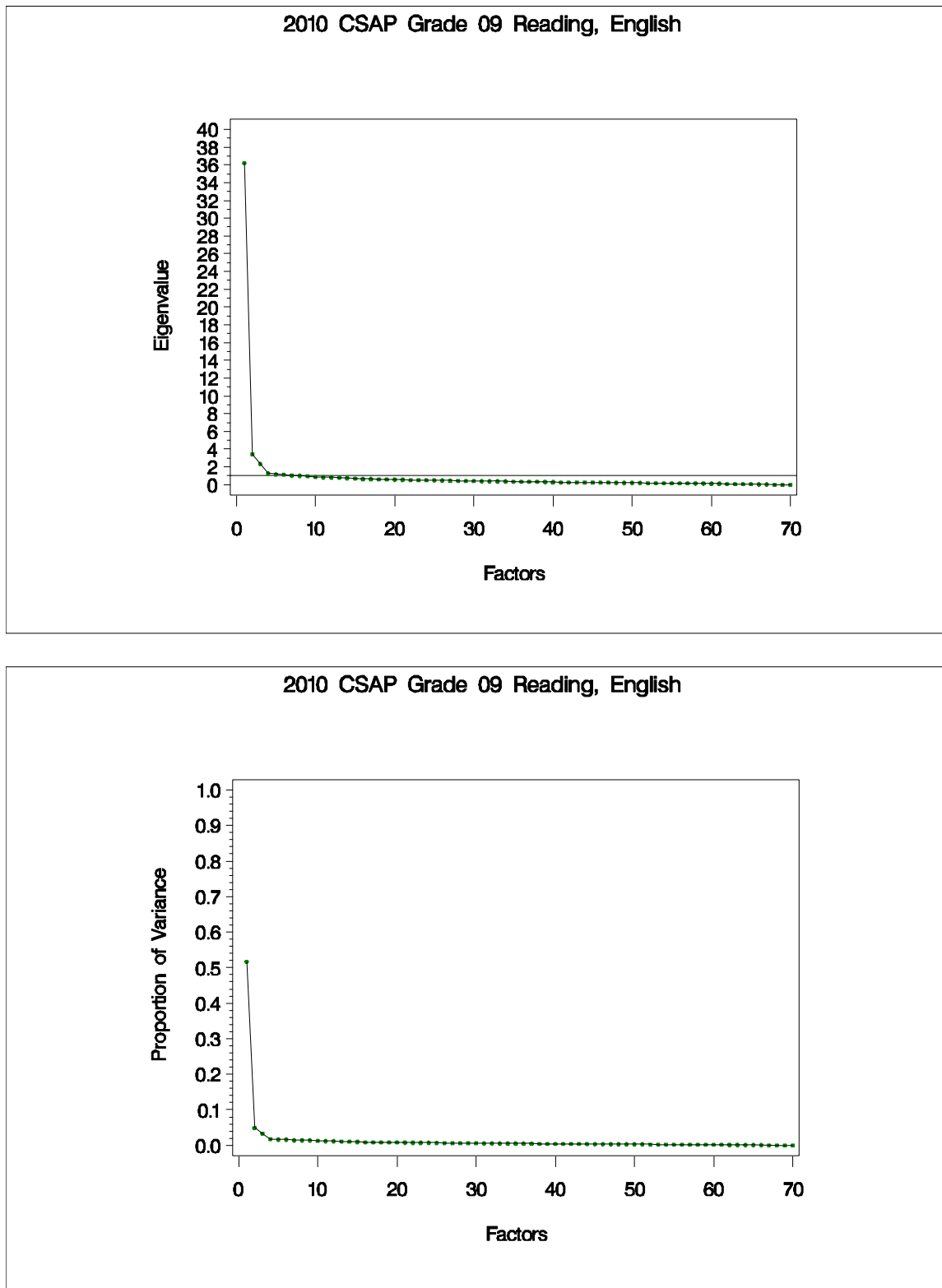
**Figure 69. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Reading Grade 4**

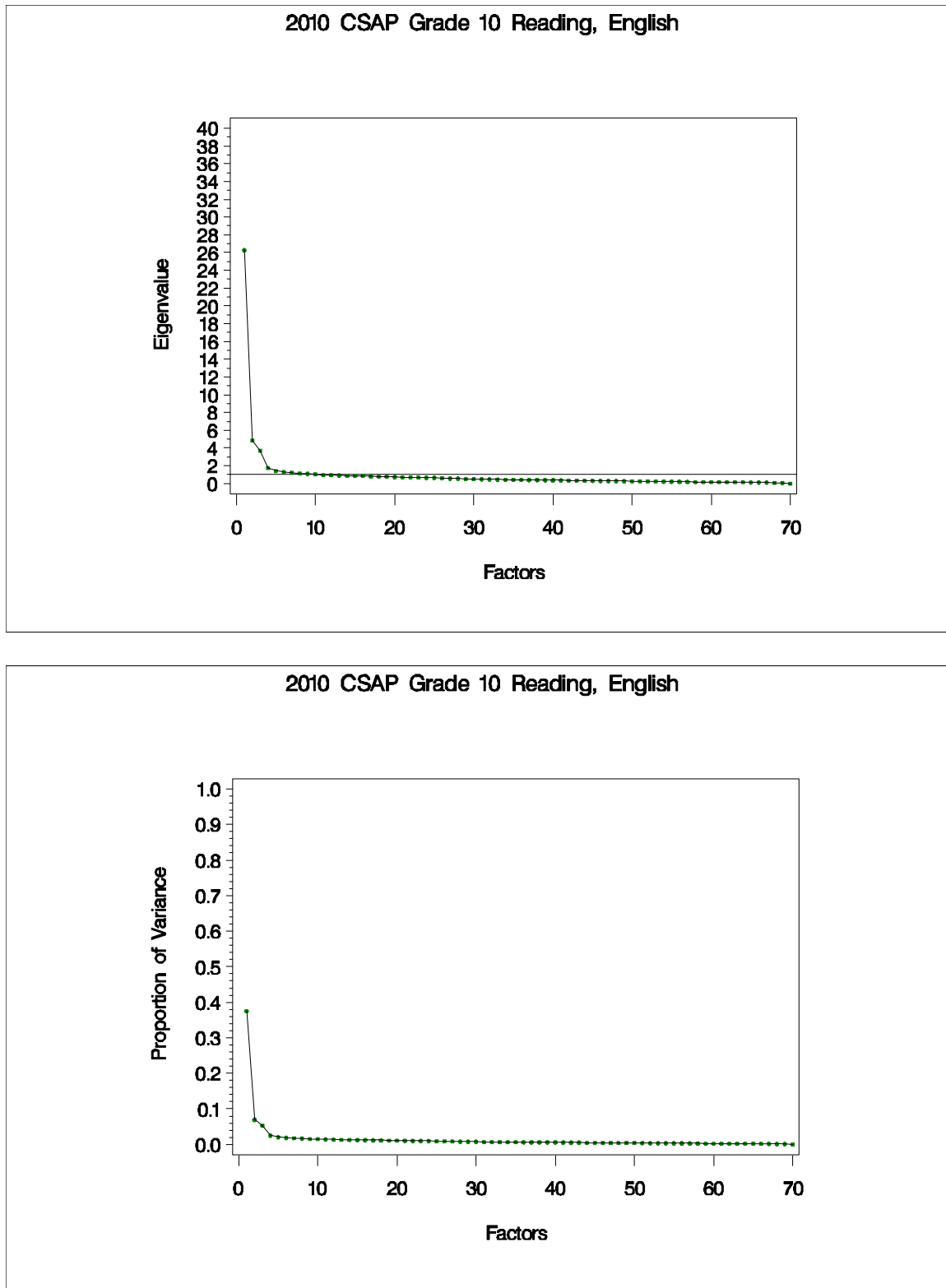
**Figure 70. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 5**

**Figure 71. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 6**

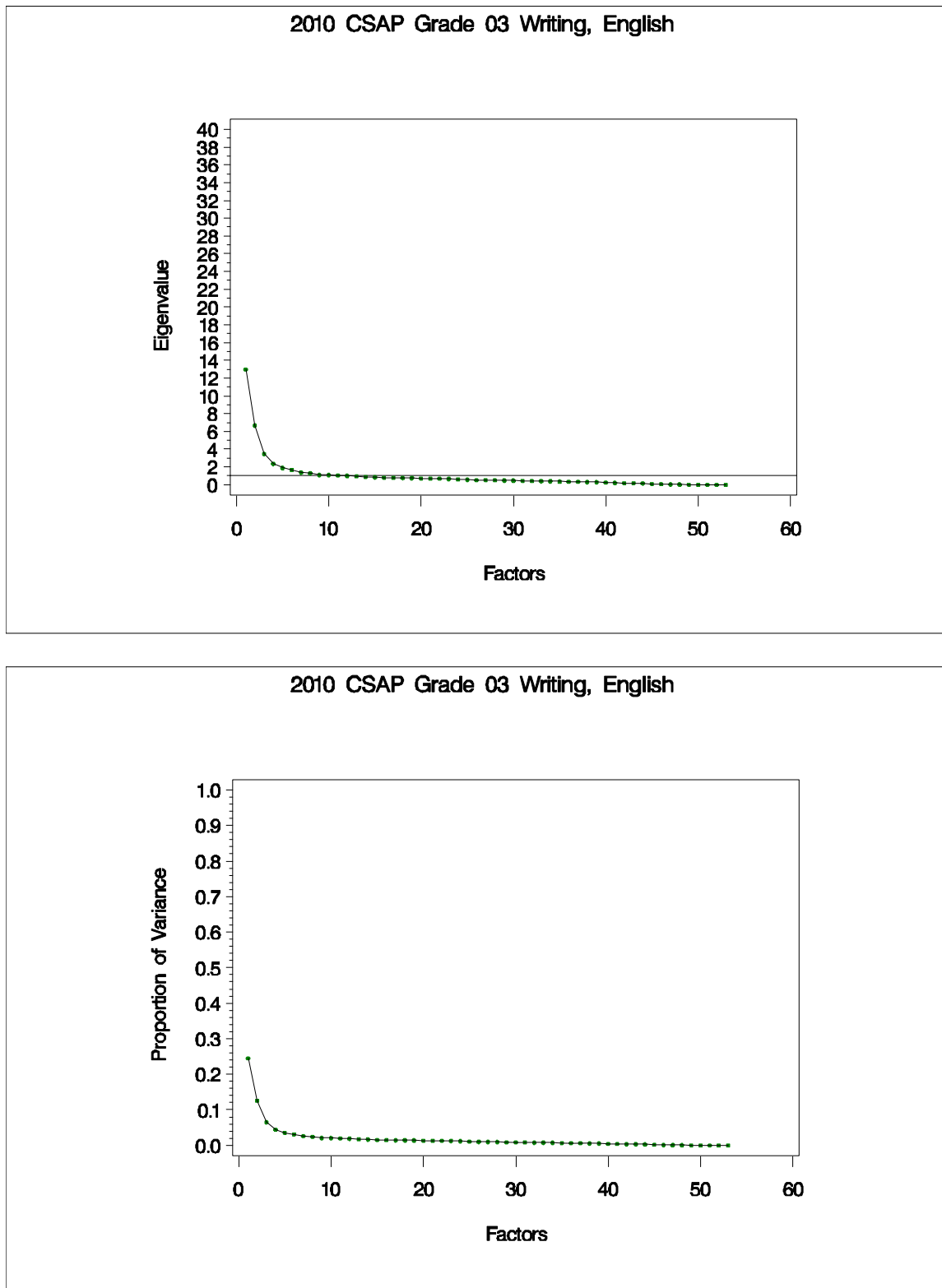
**Figure 72. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 7**

**Figure 73. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 8**

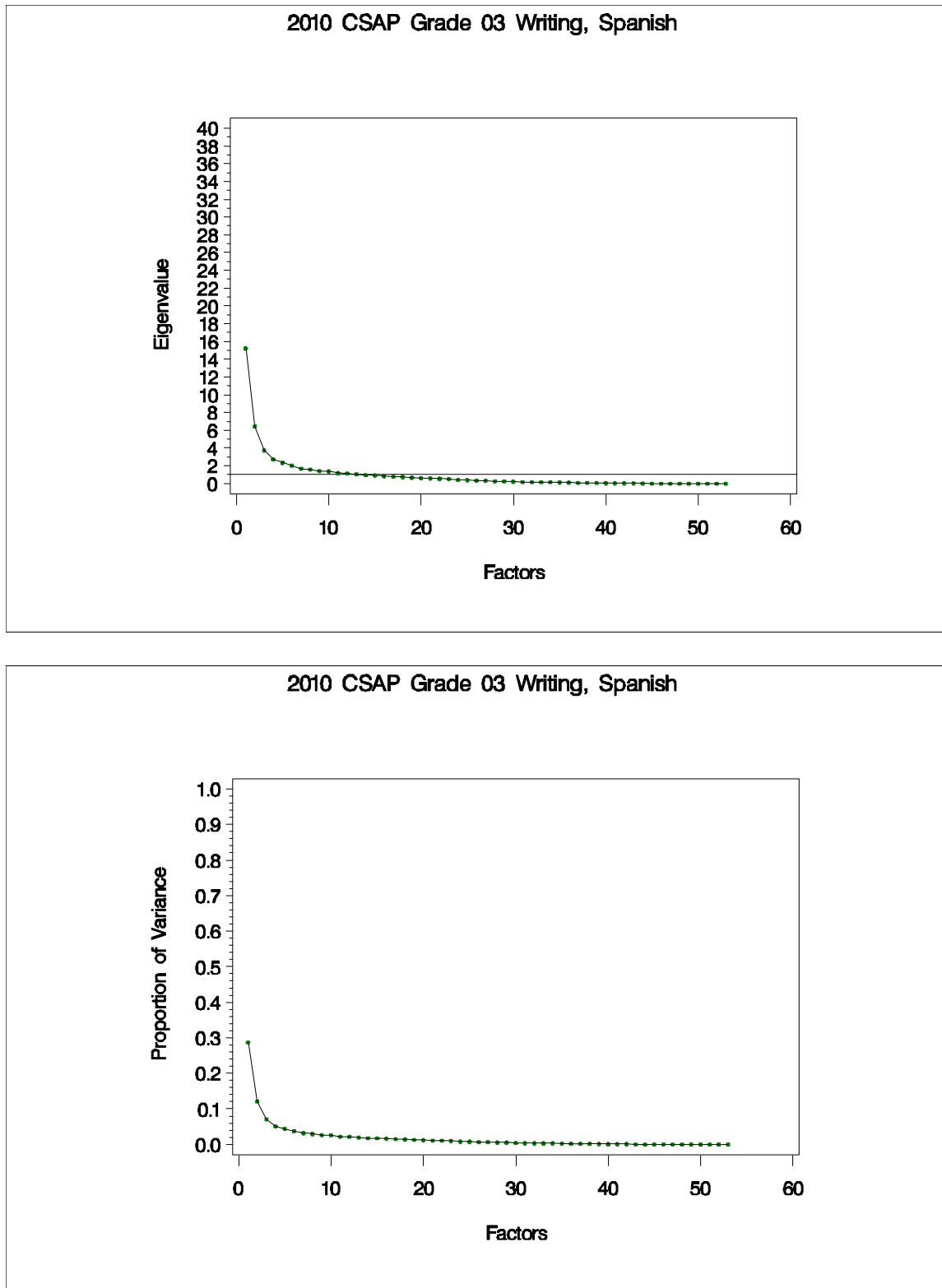
**Figure 74. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 9**

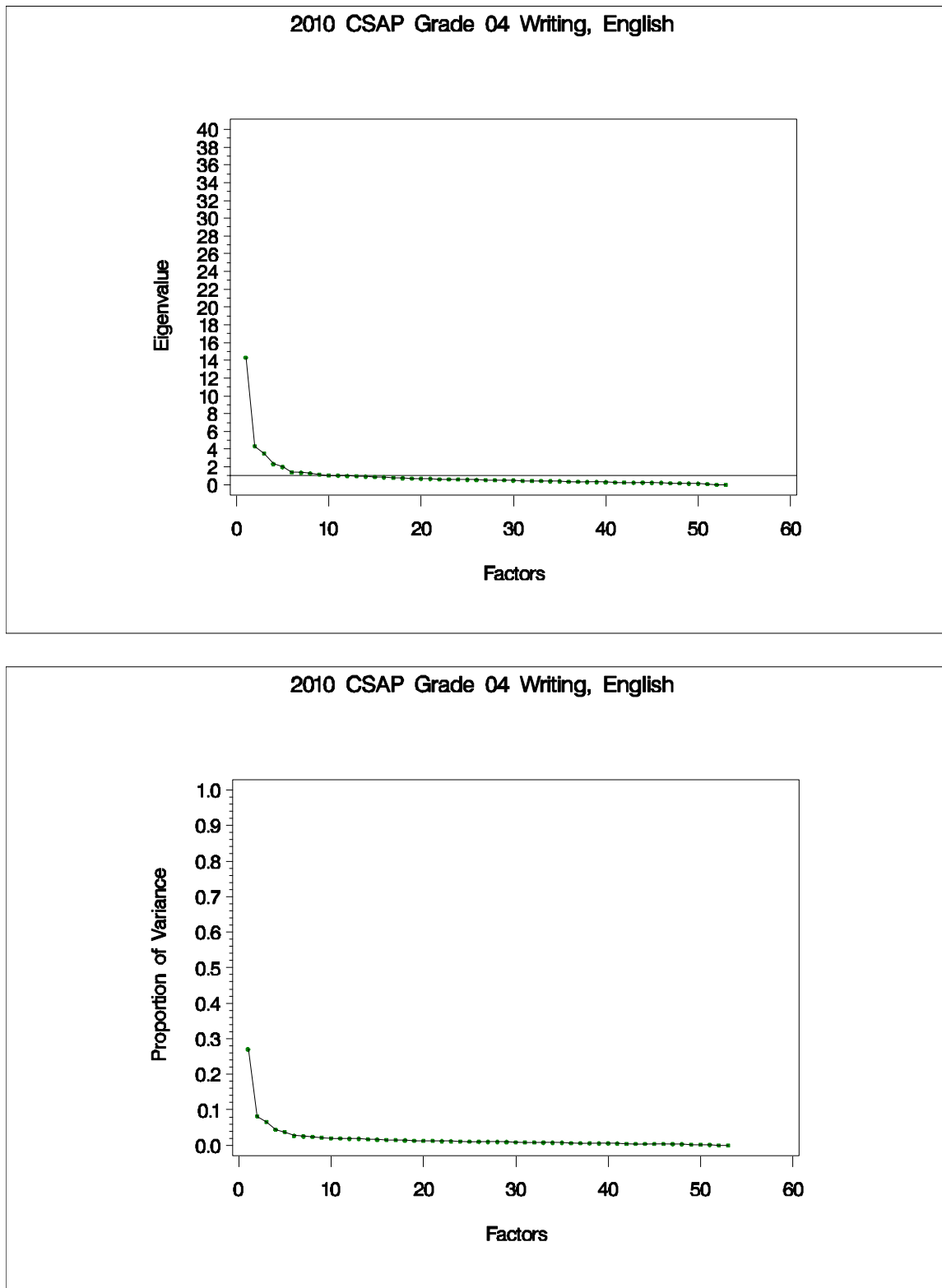
**Figure 75. Eigenvalues and Proportions of Variance by Factor for CSAP Reading Grade 10**

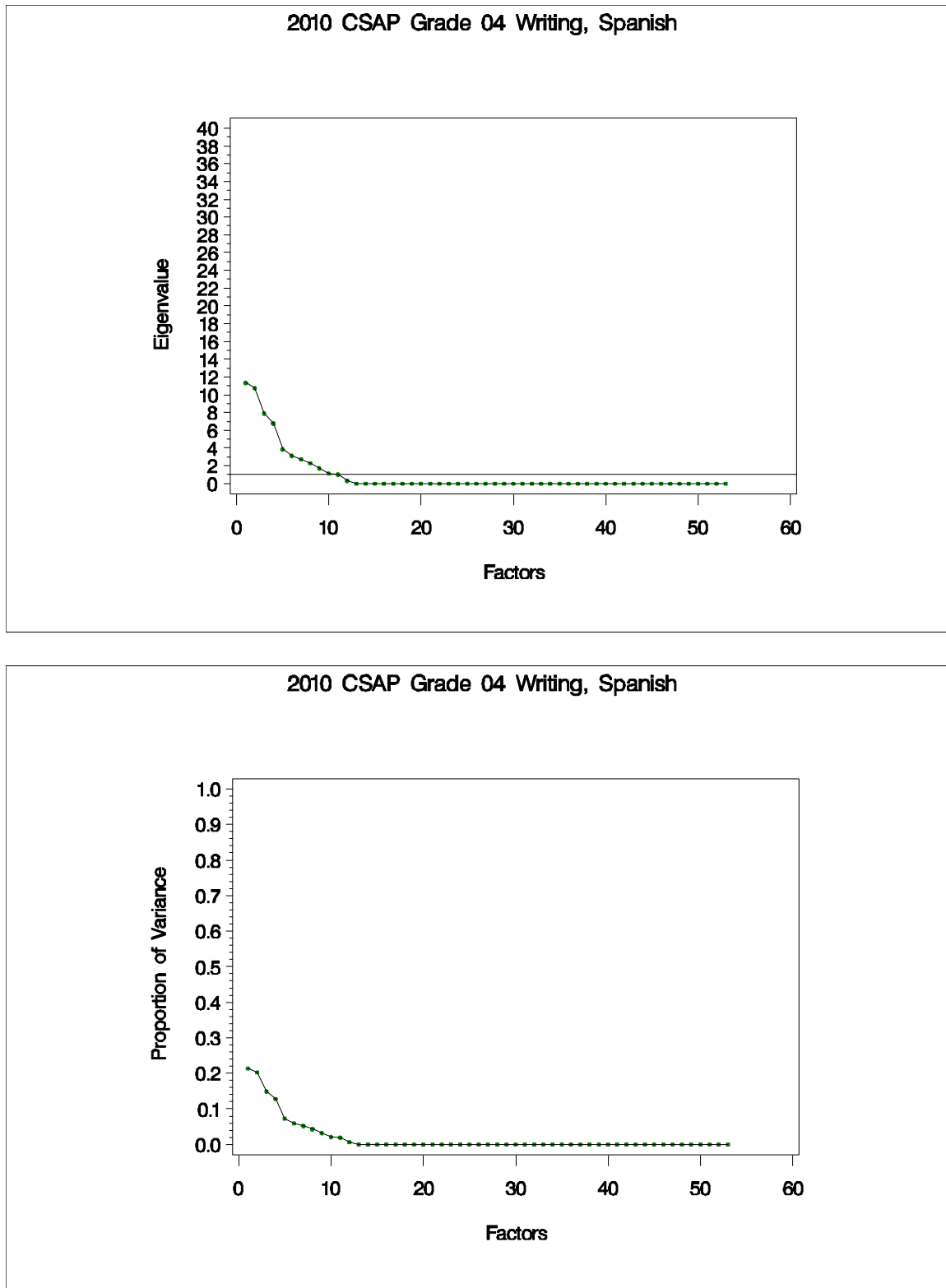


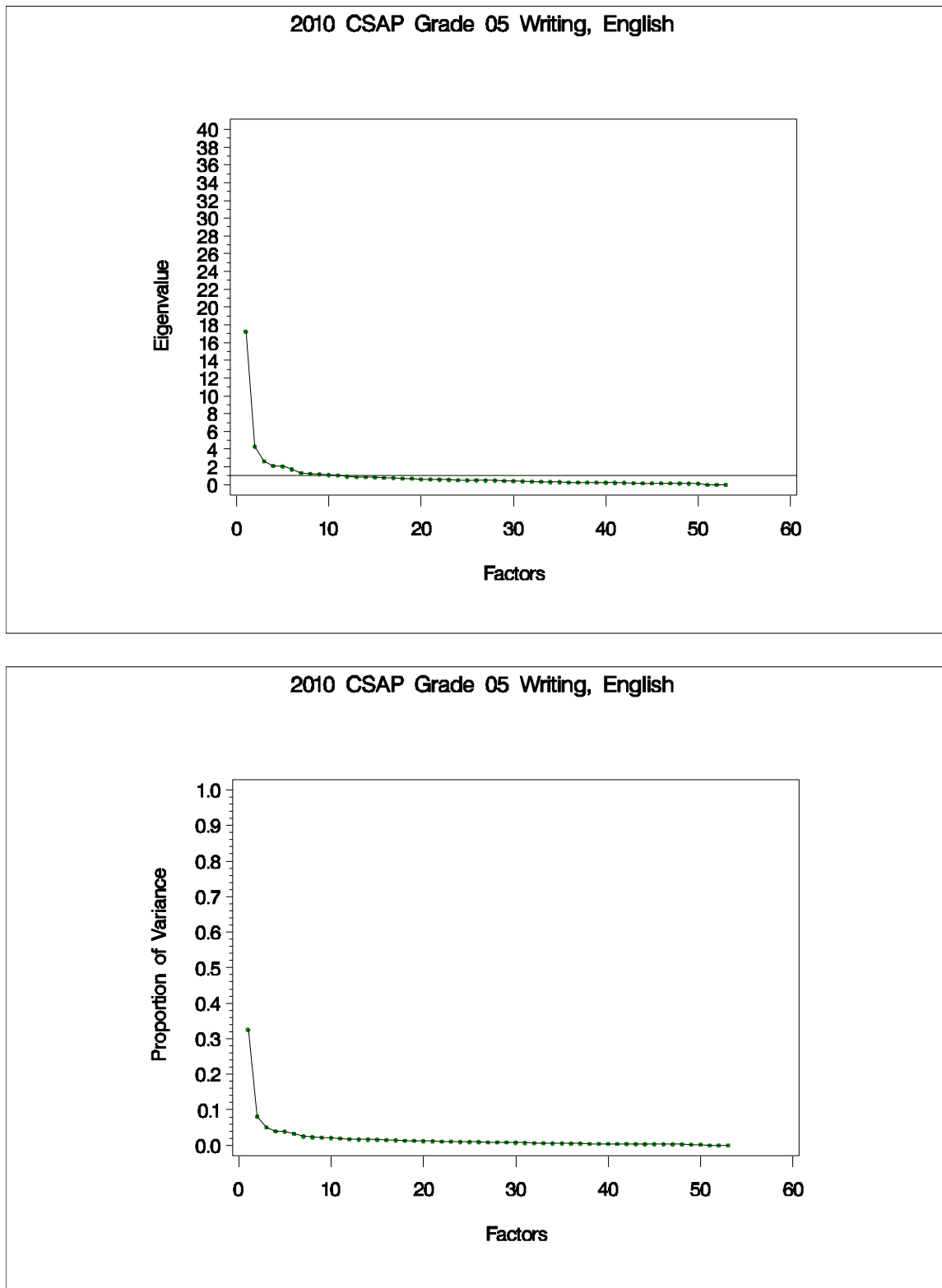
**Figure 76. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 3**

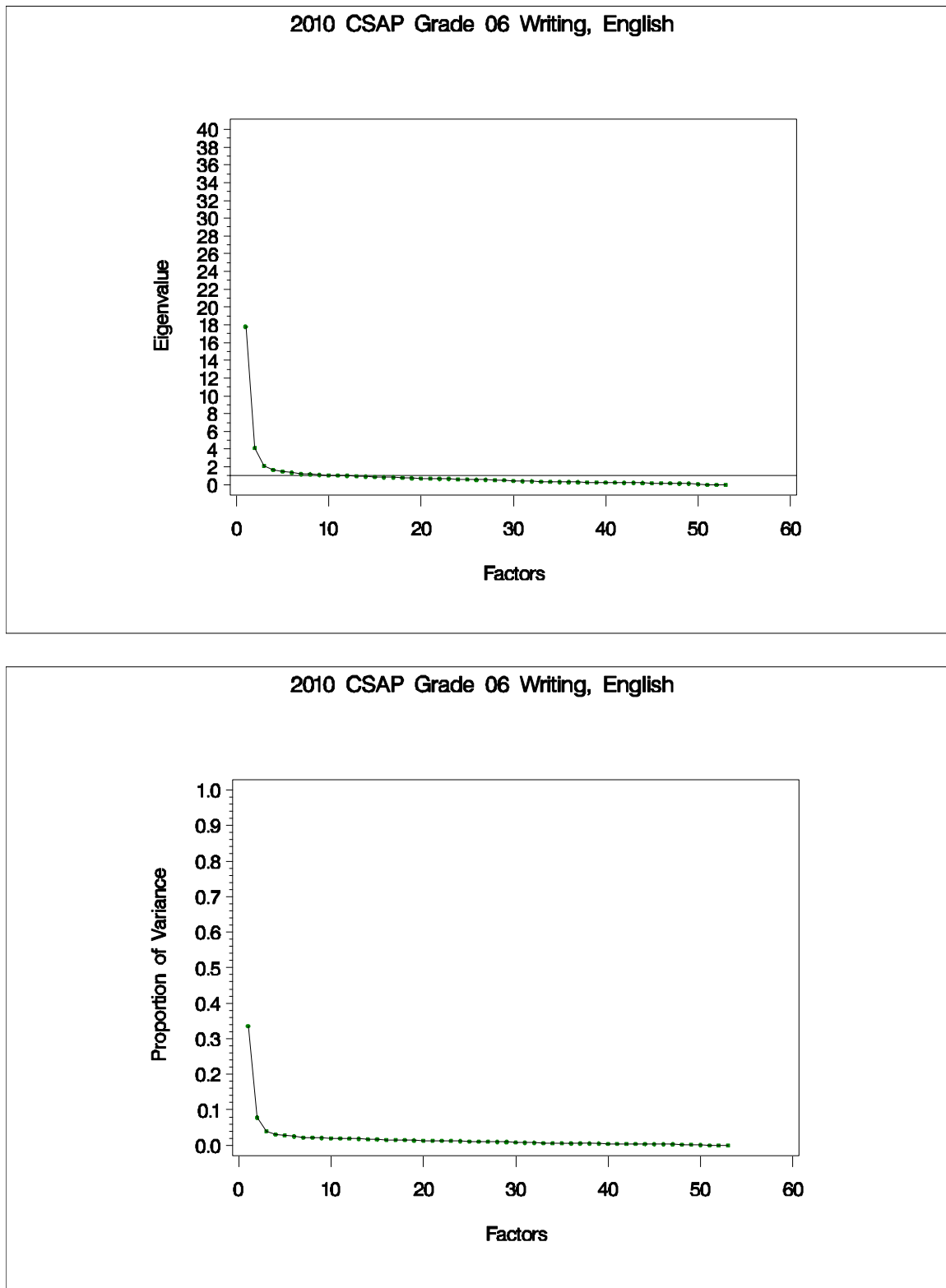
**Figure 77. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Writing Grade 3**

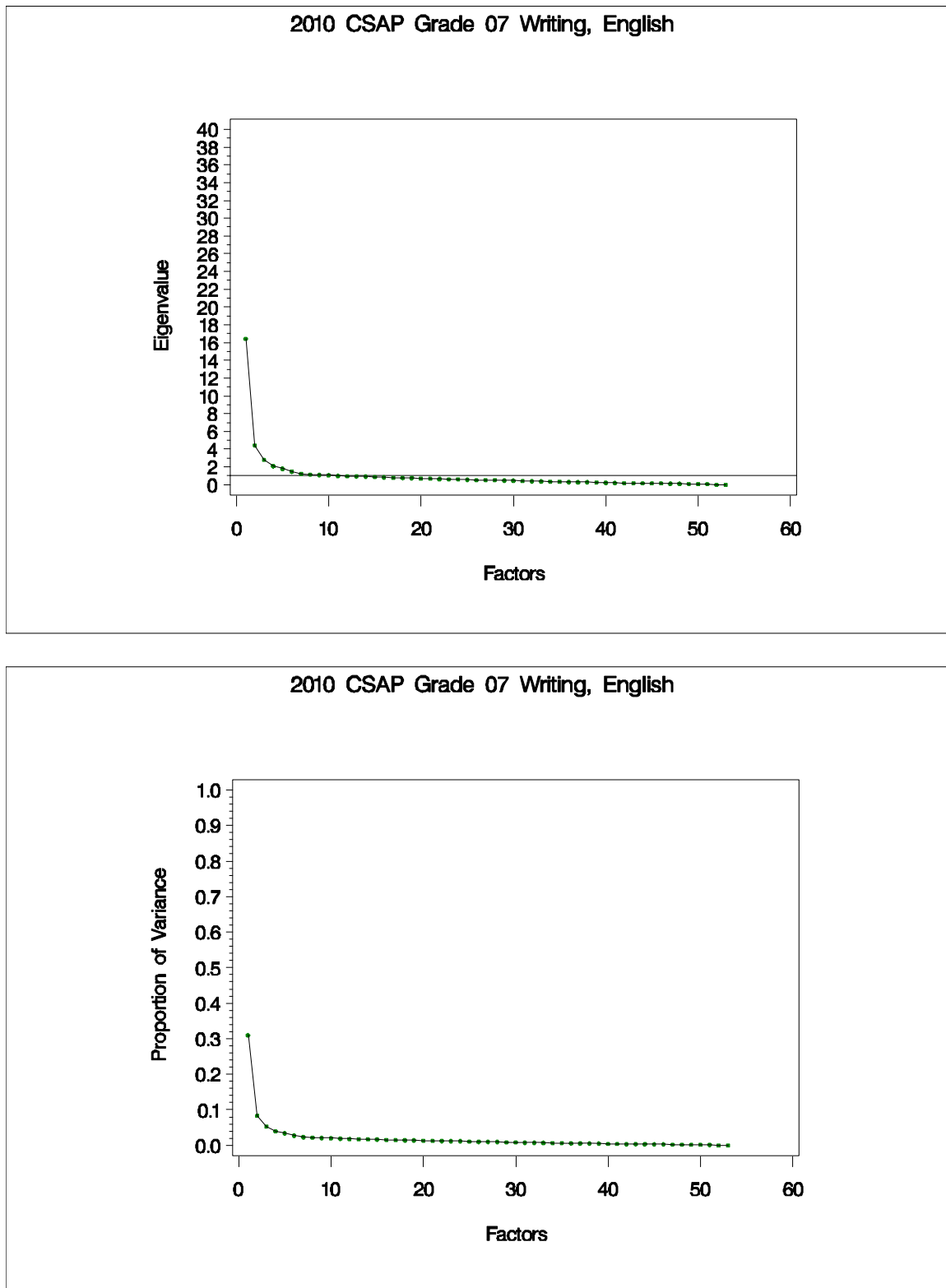


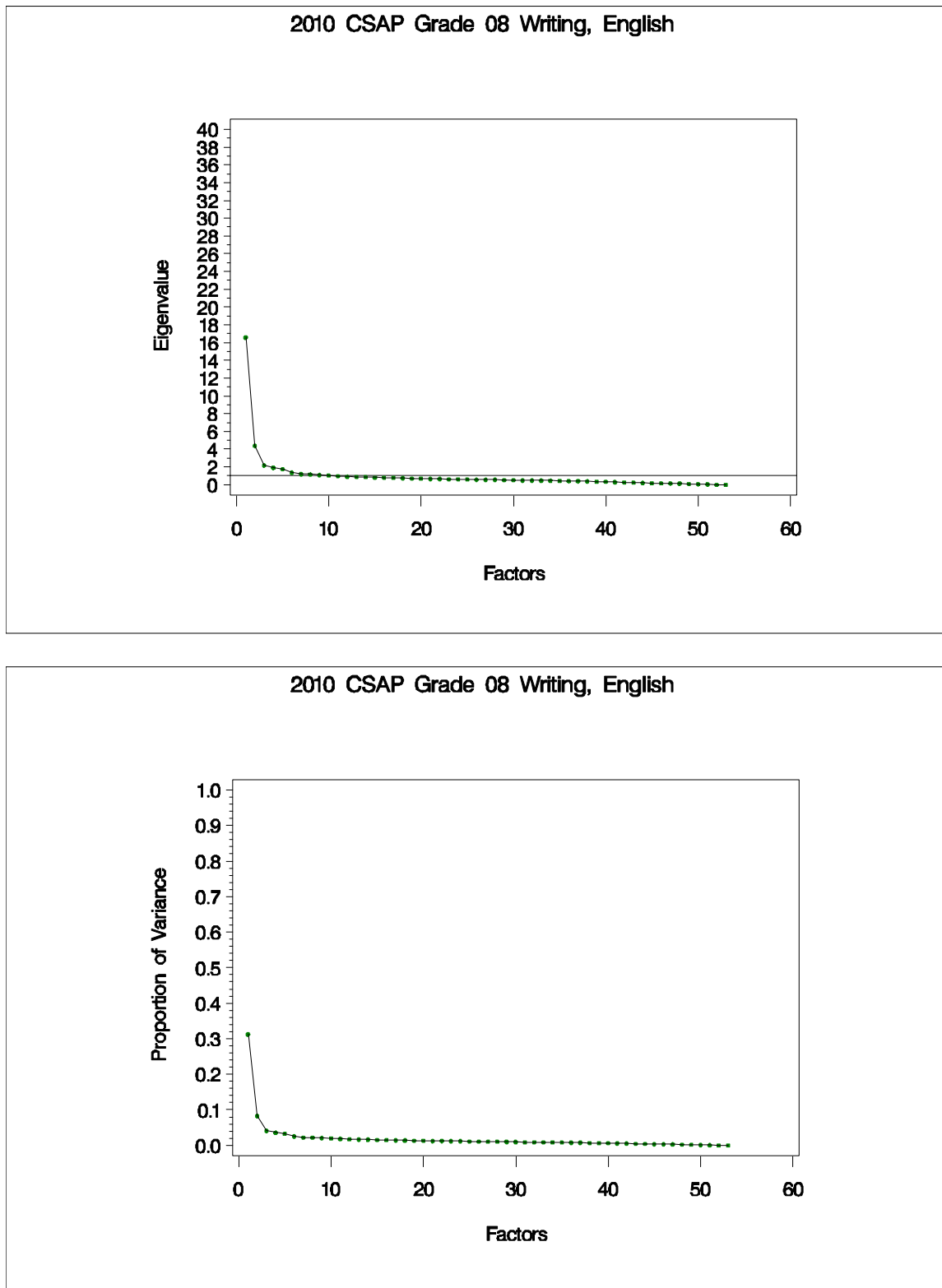
**Figure 78. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 4**

**Figure 79. Eigenvalues and Proportions of Variance by Factor for CSAP Spanish Writing Grade 4**

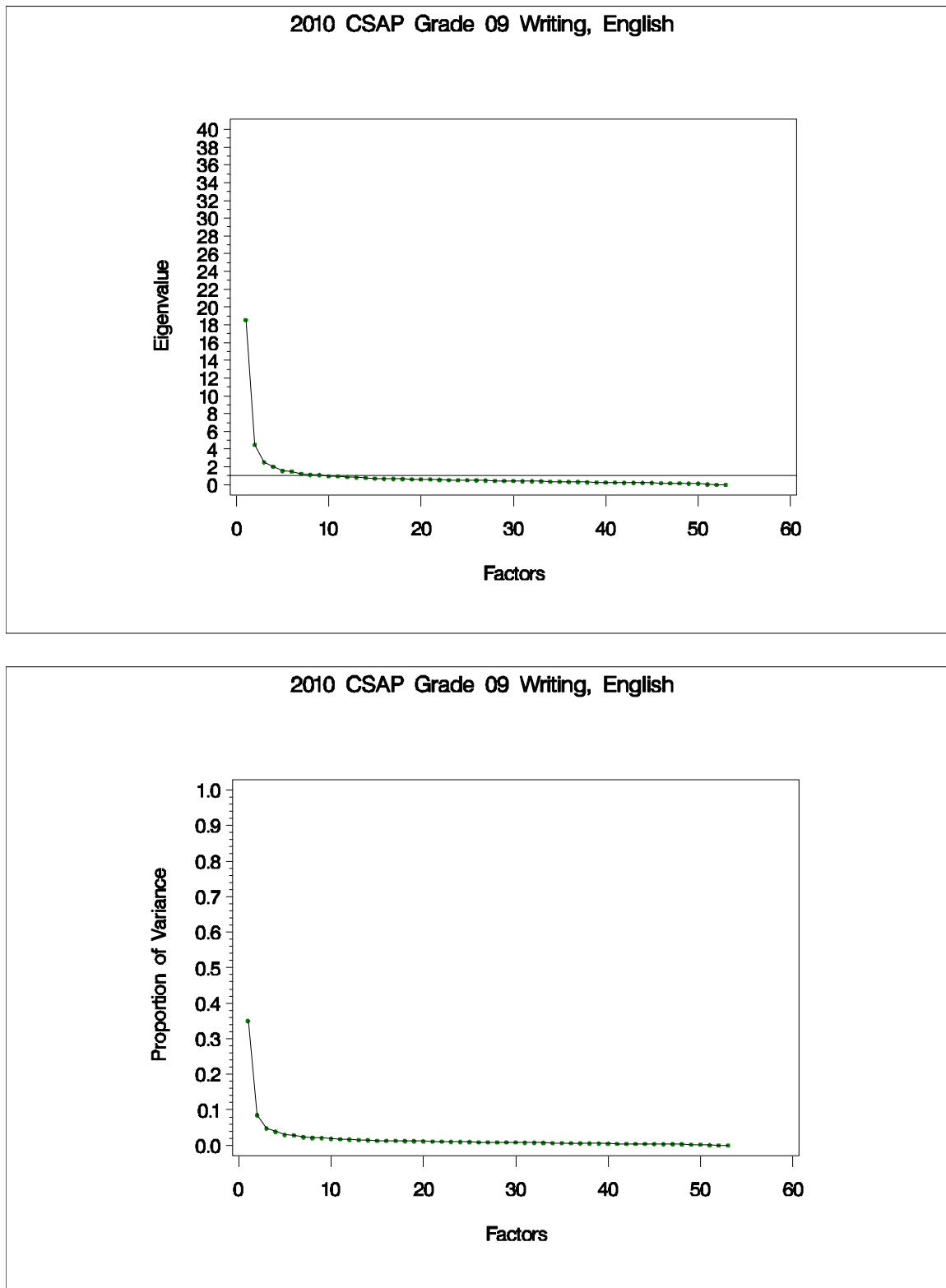
**Figure 80. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 5**

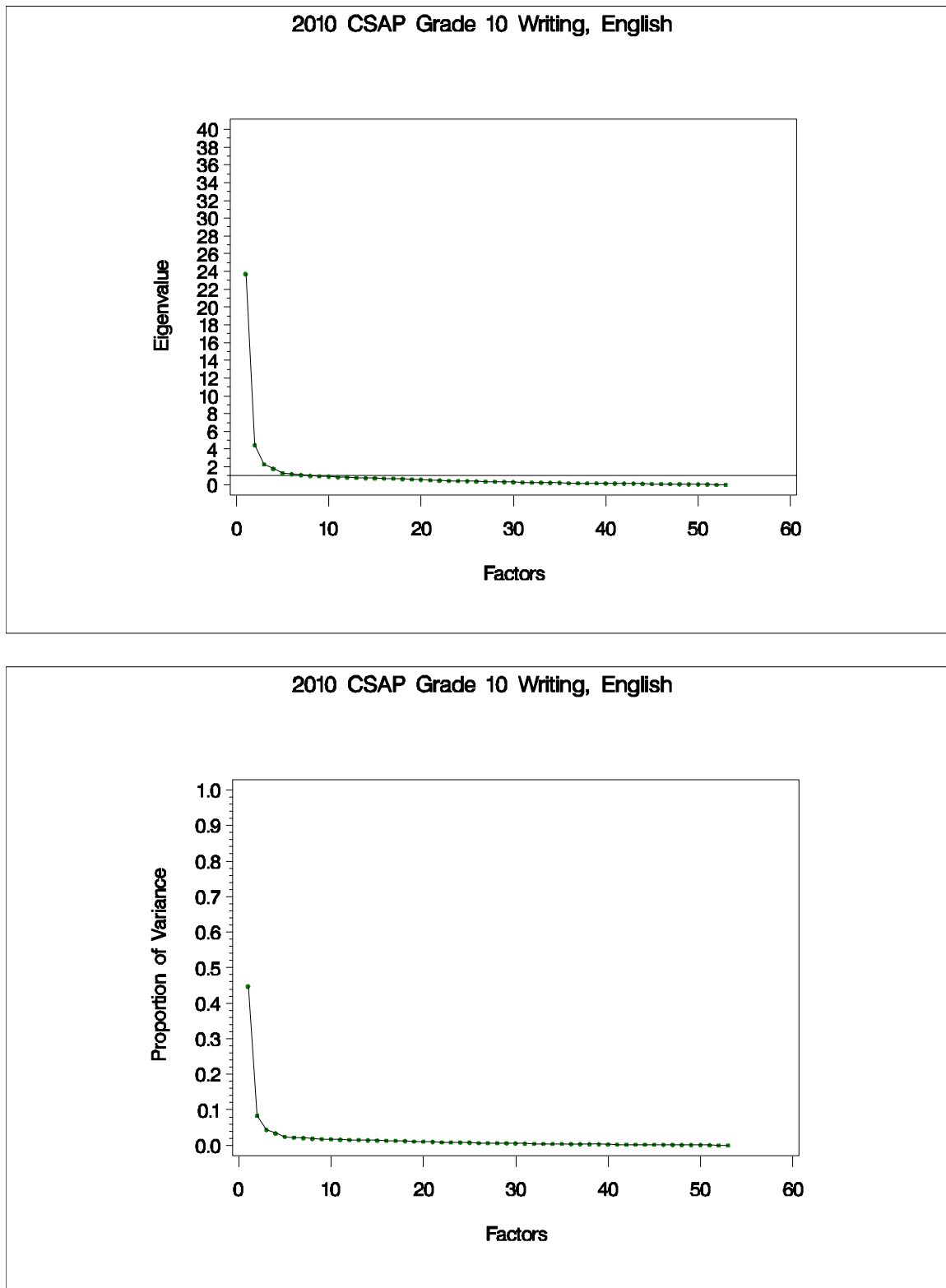
**Figure 81. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 6**

**Figure 82. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 7**

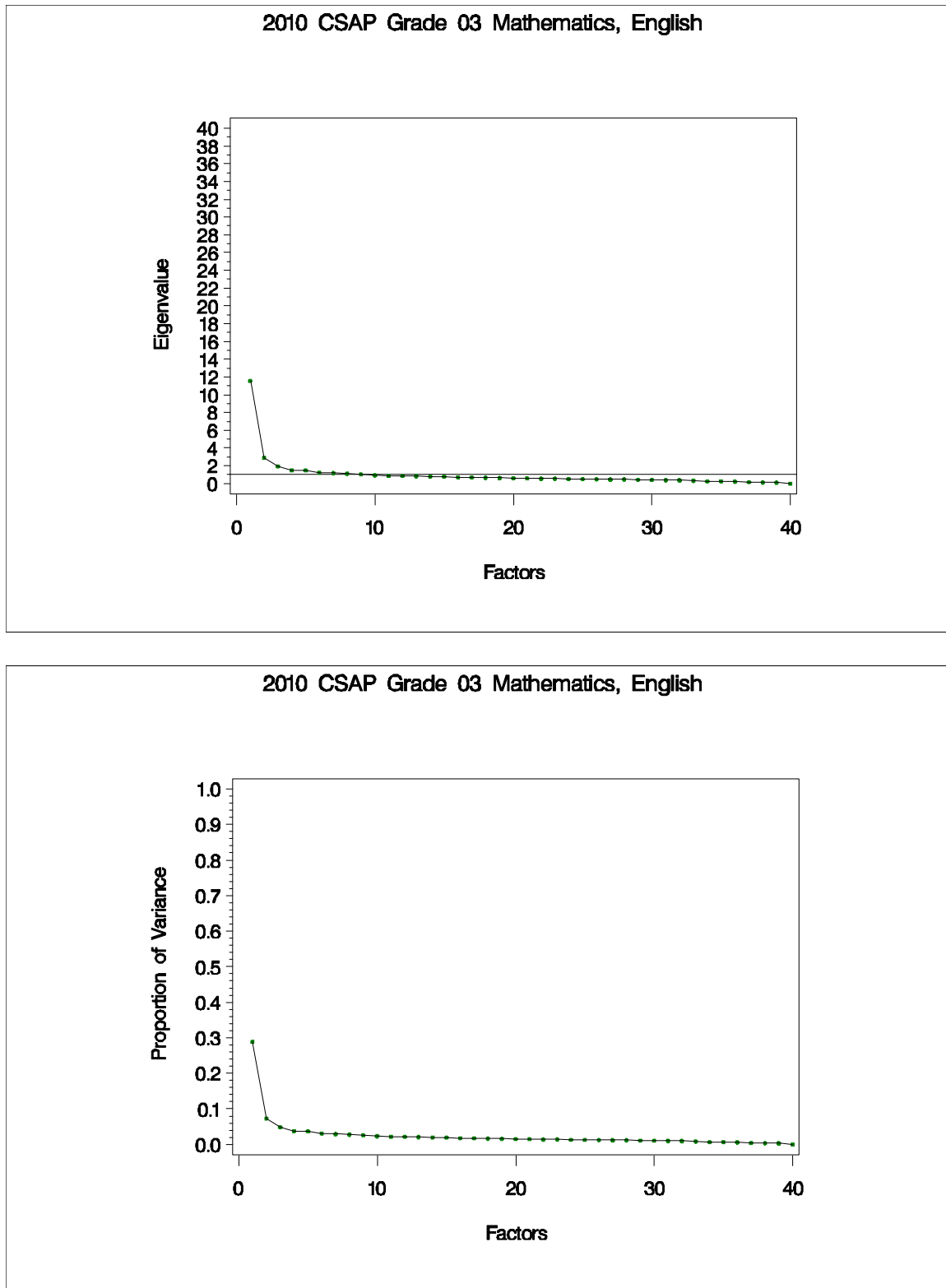
**Figure 83. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 8**



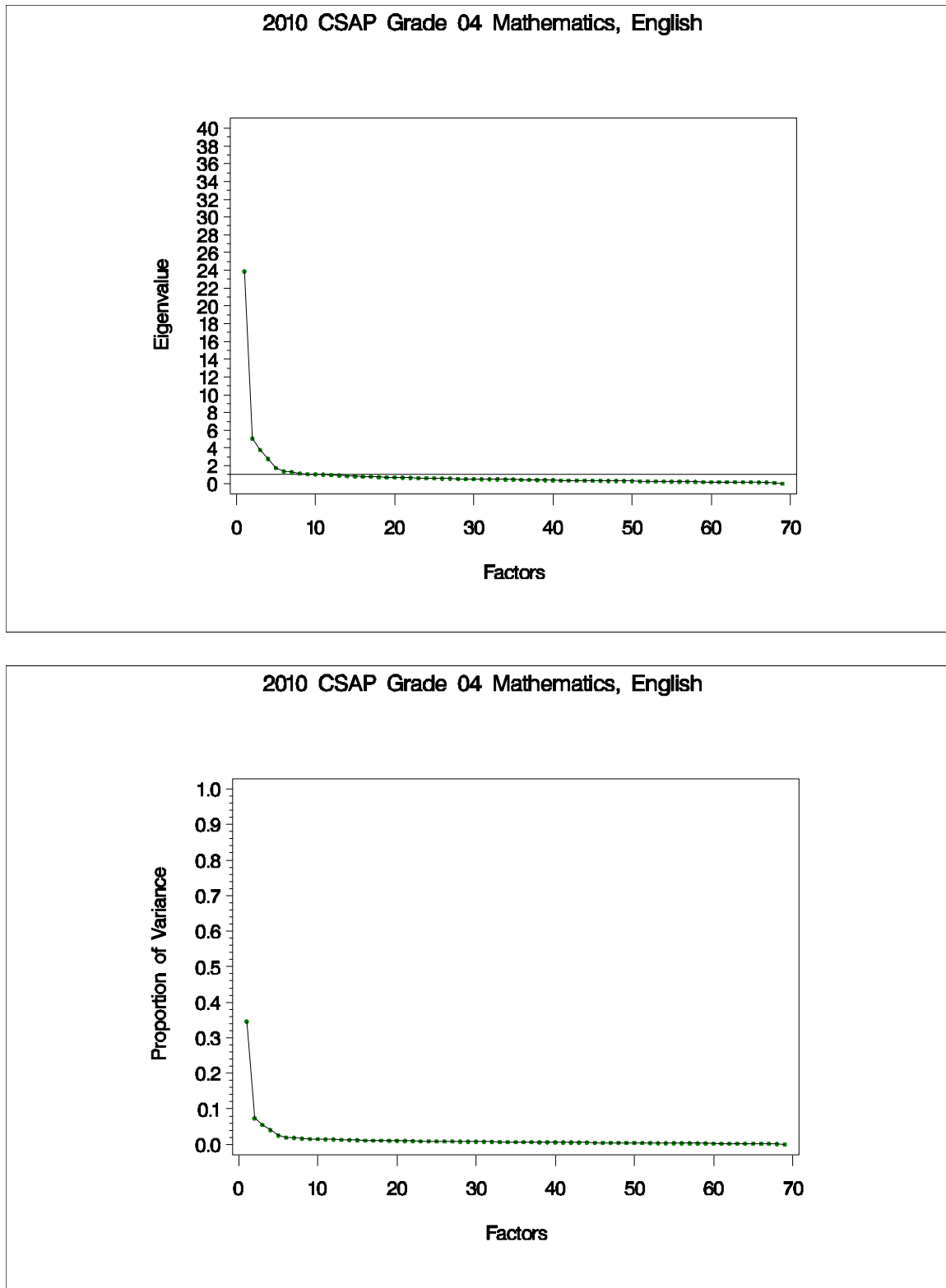
**Figure 84. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 9**

**Figure 85. Eigenvalues and Proportions of Variance by Factor for CSAP Writing Grade 10**

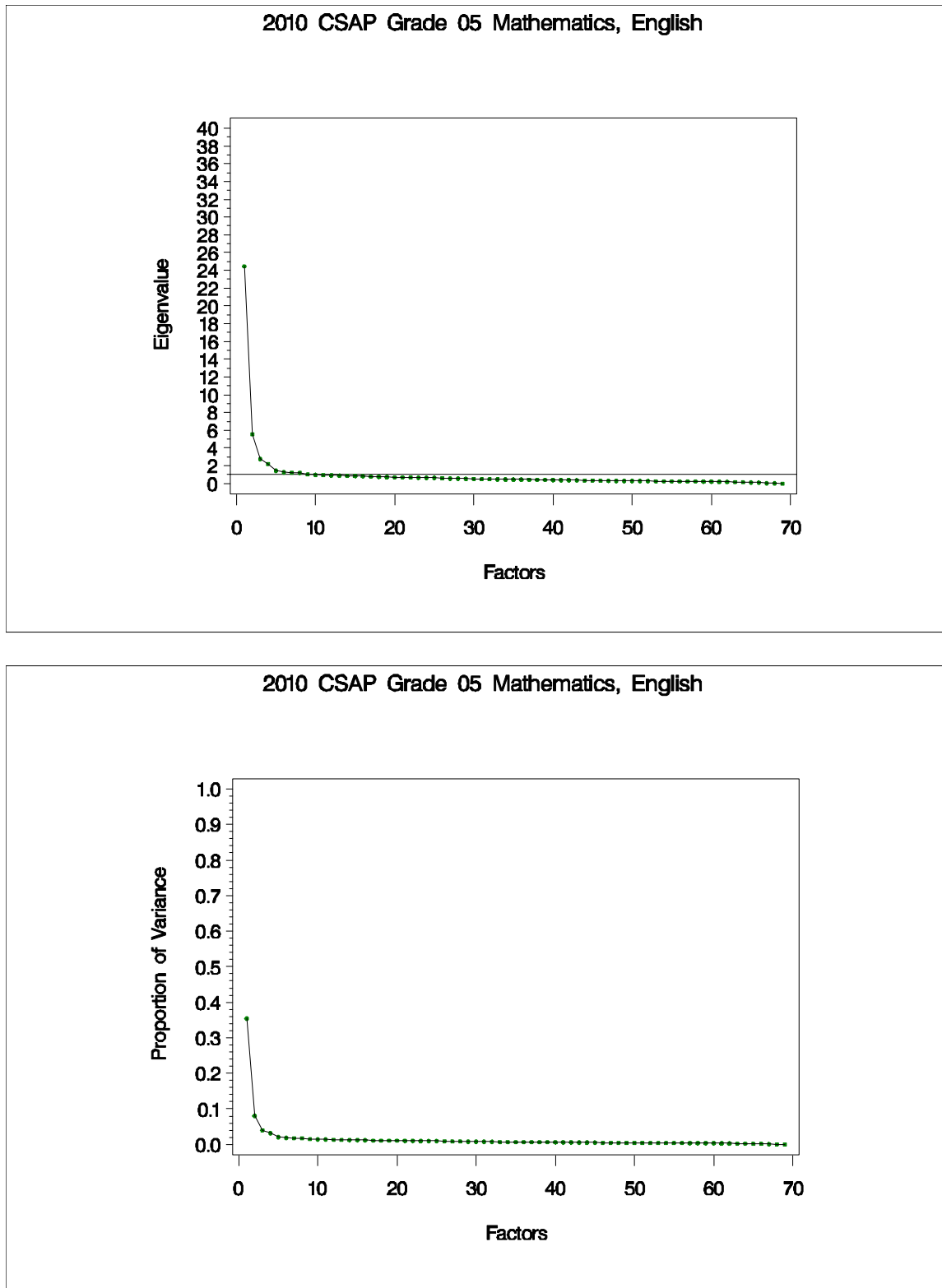
**Figure 86. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 3**



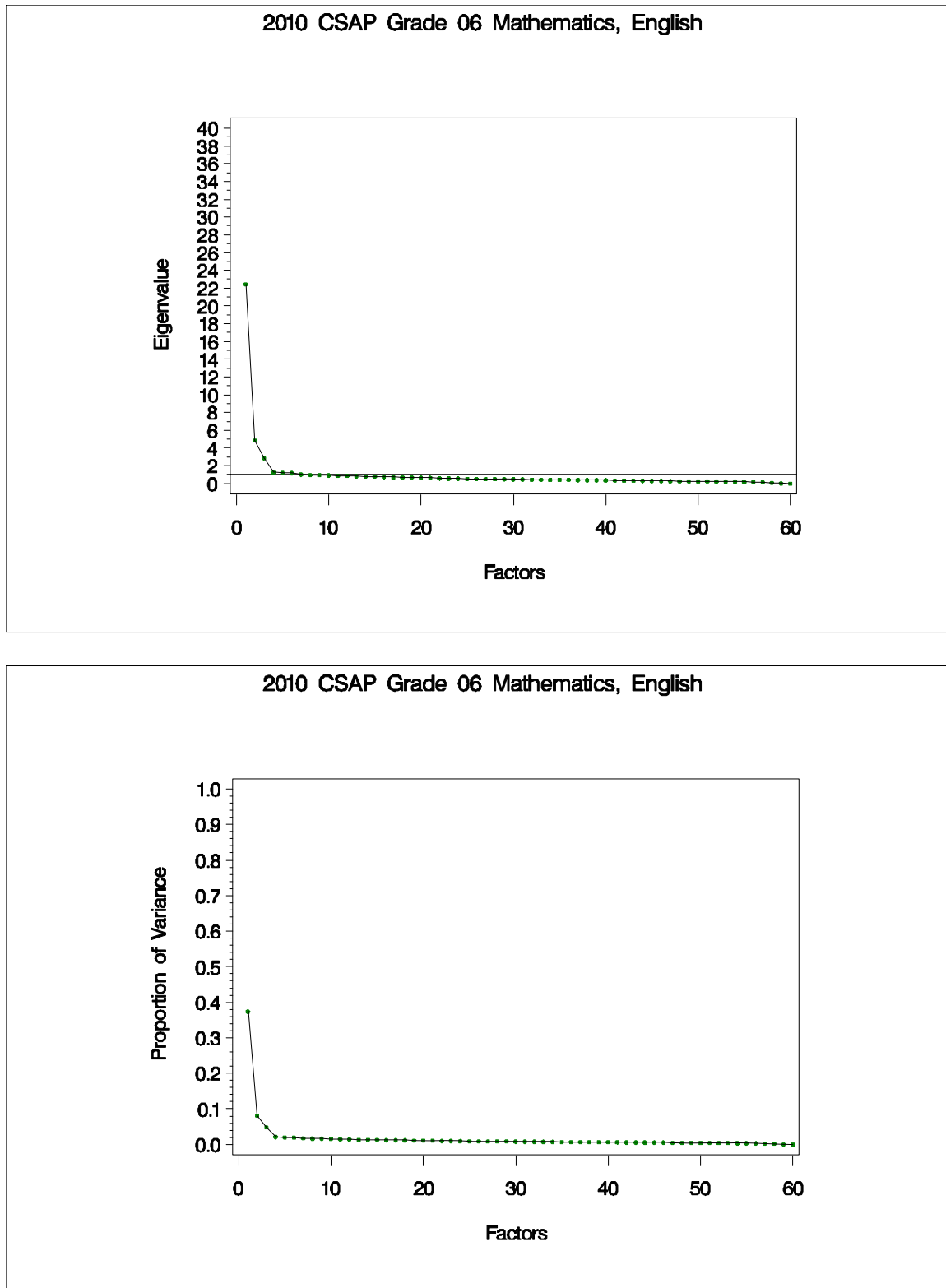
**Figure 87. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 4**



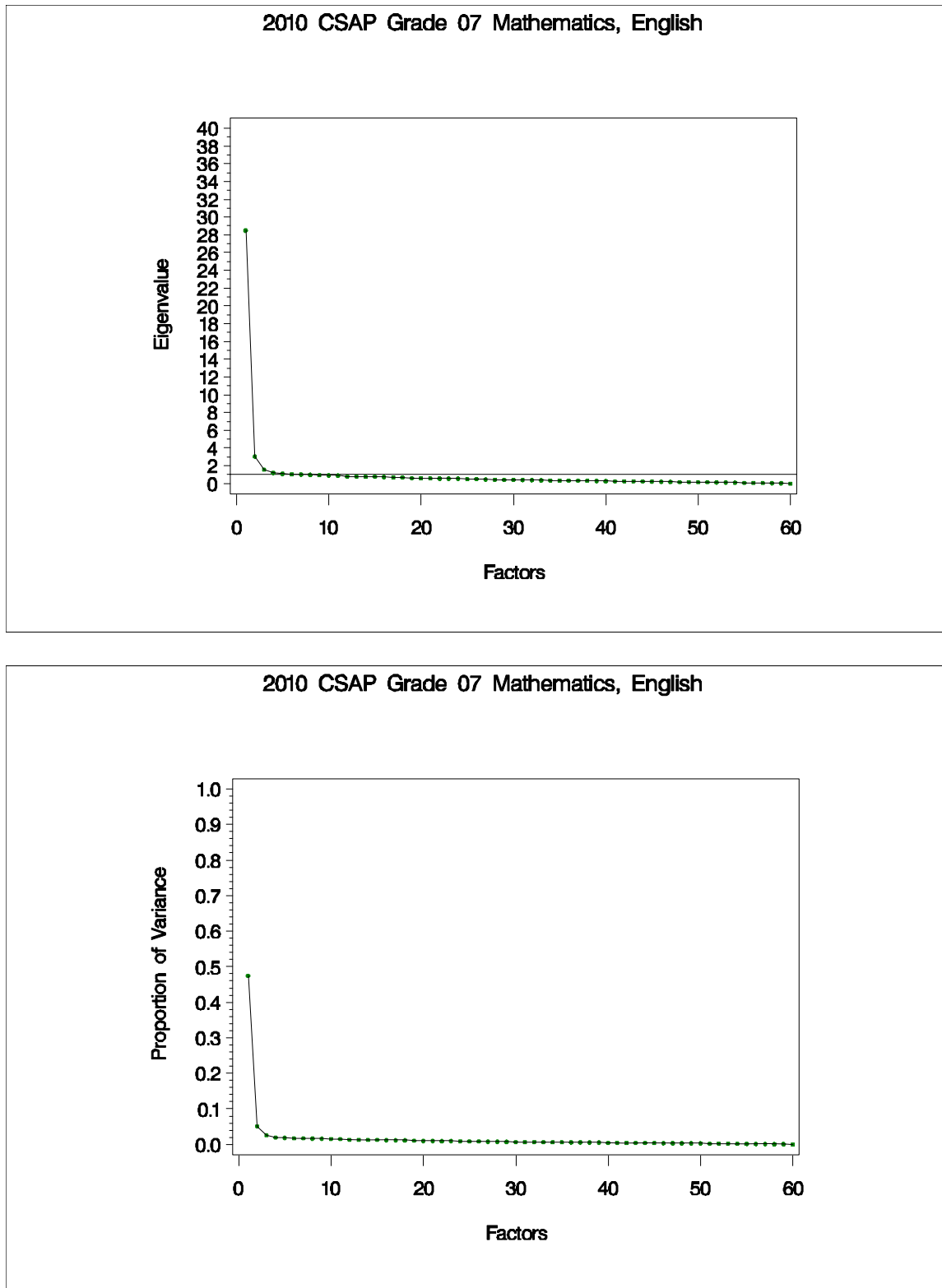
**Figure 88. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 5**



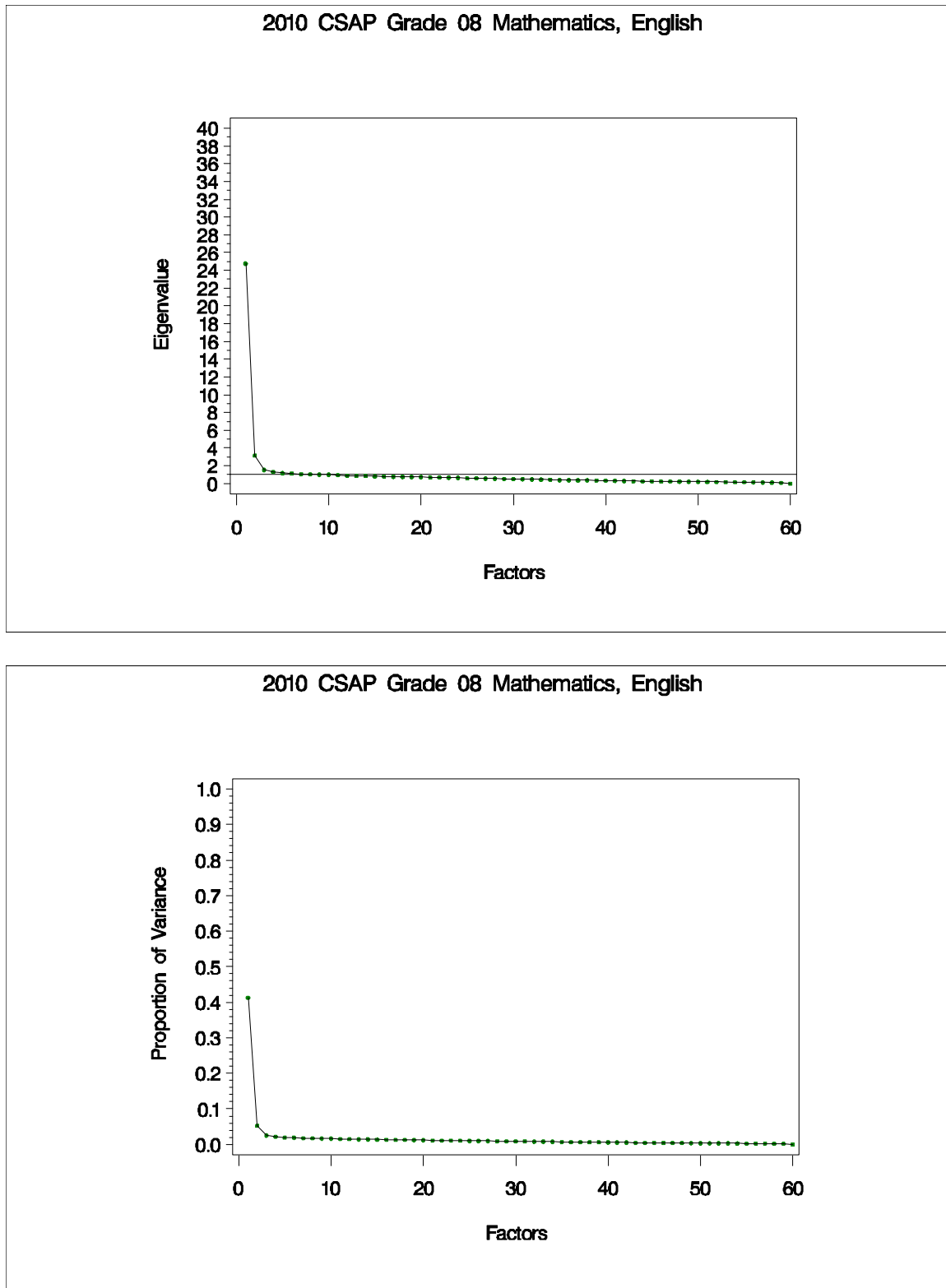
**Figure 89. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 6**



**Figure 90. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 7**

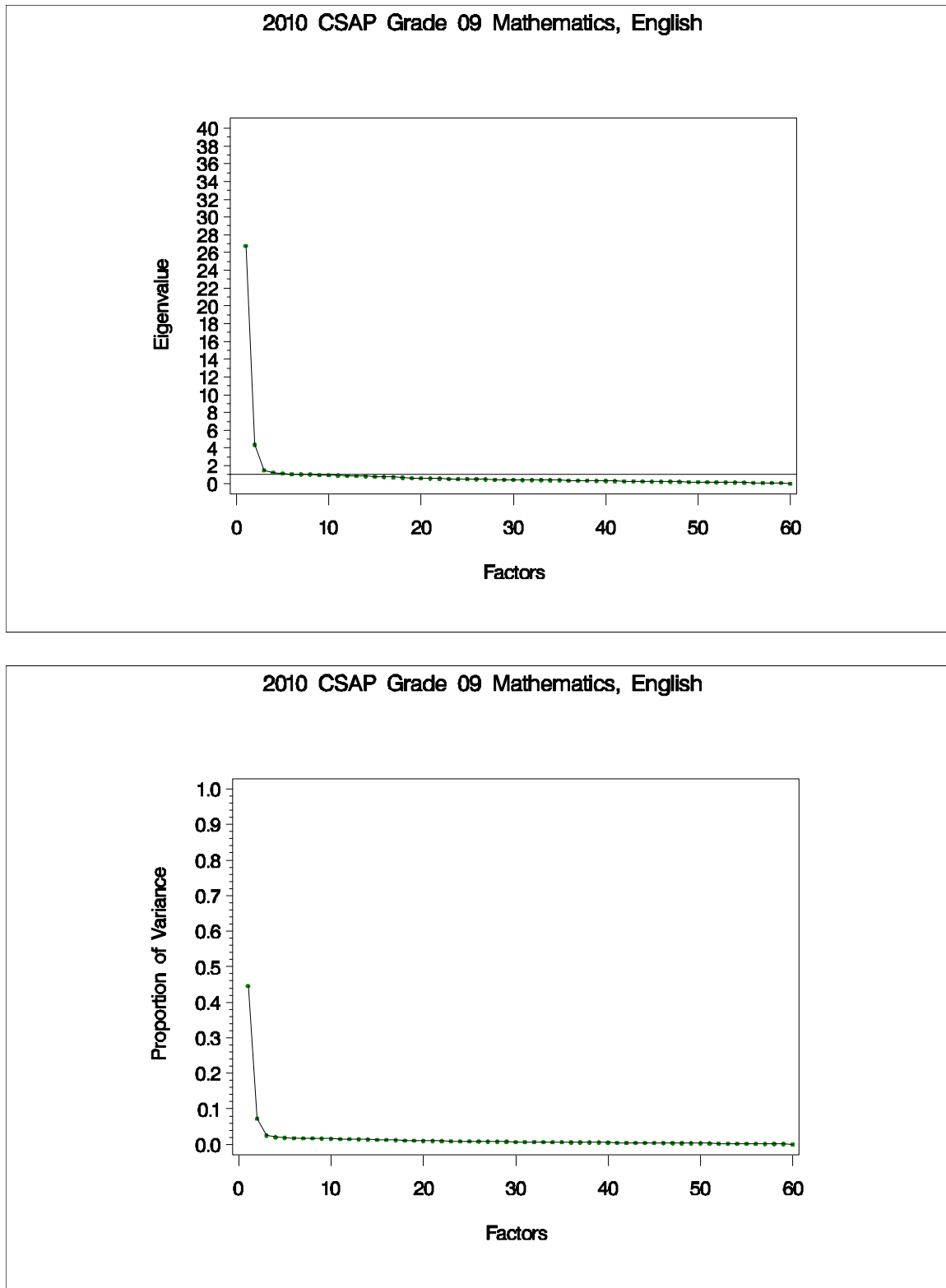


**Figure 91. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 8**

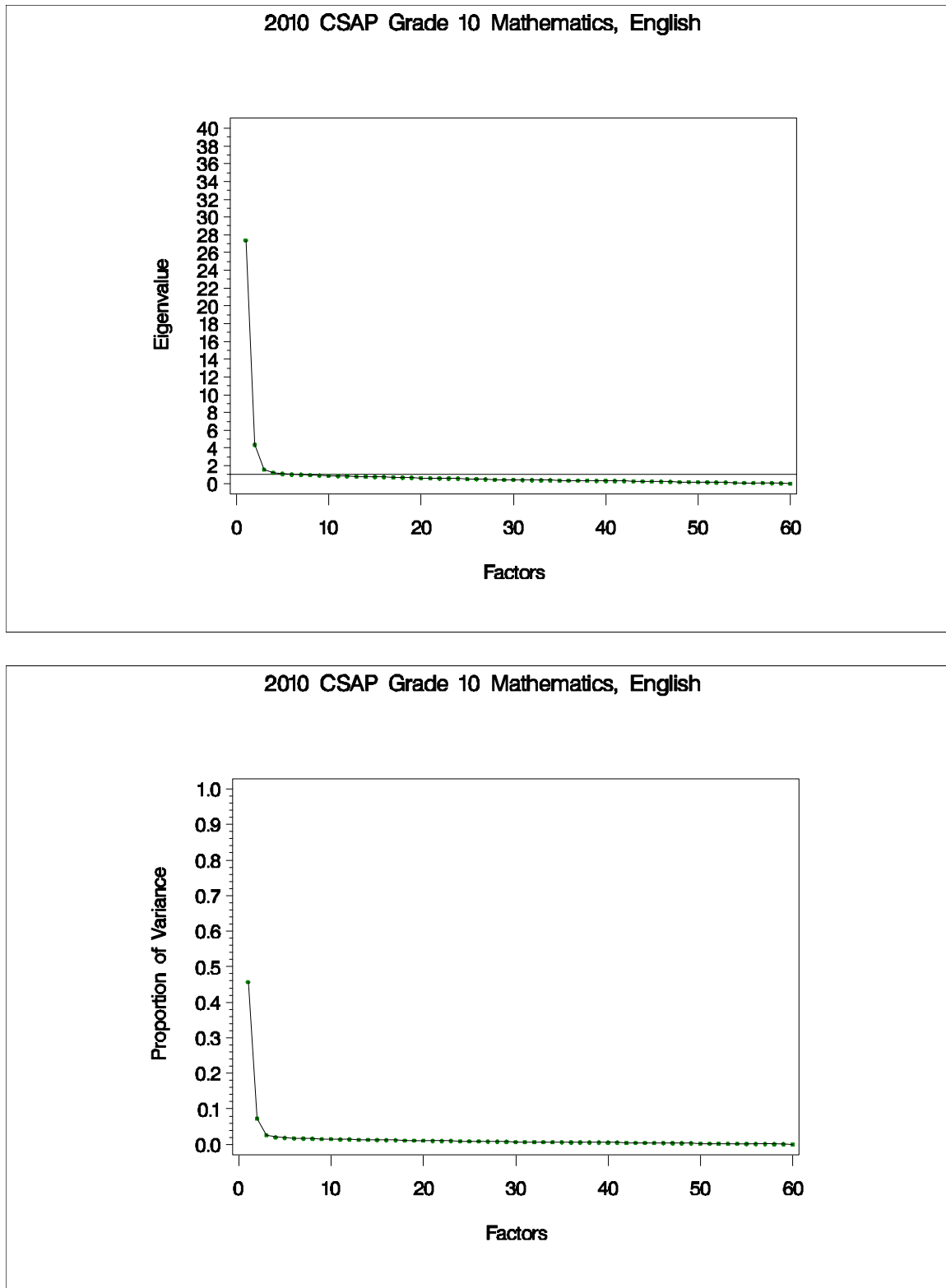


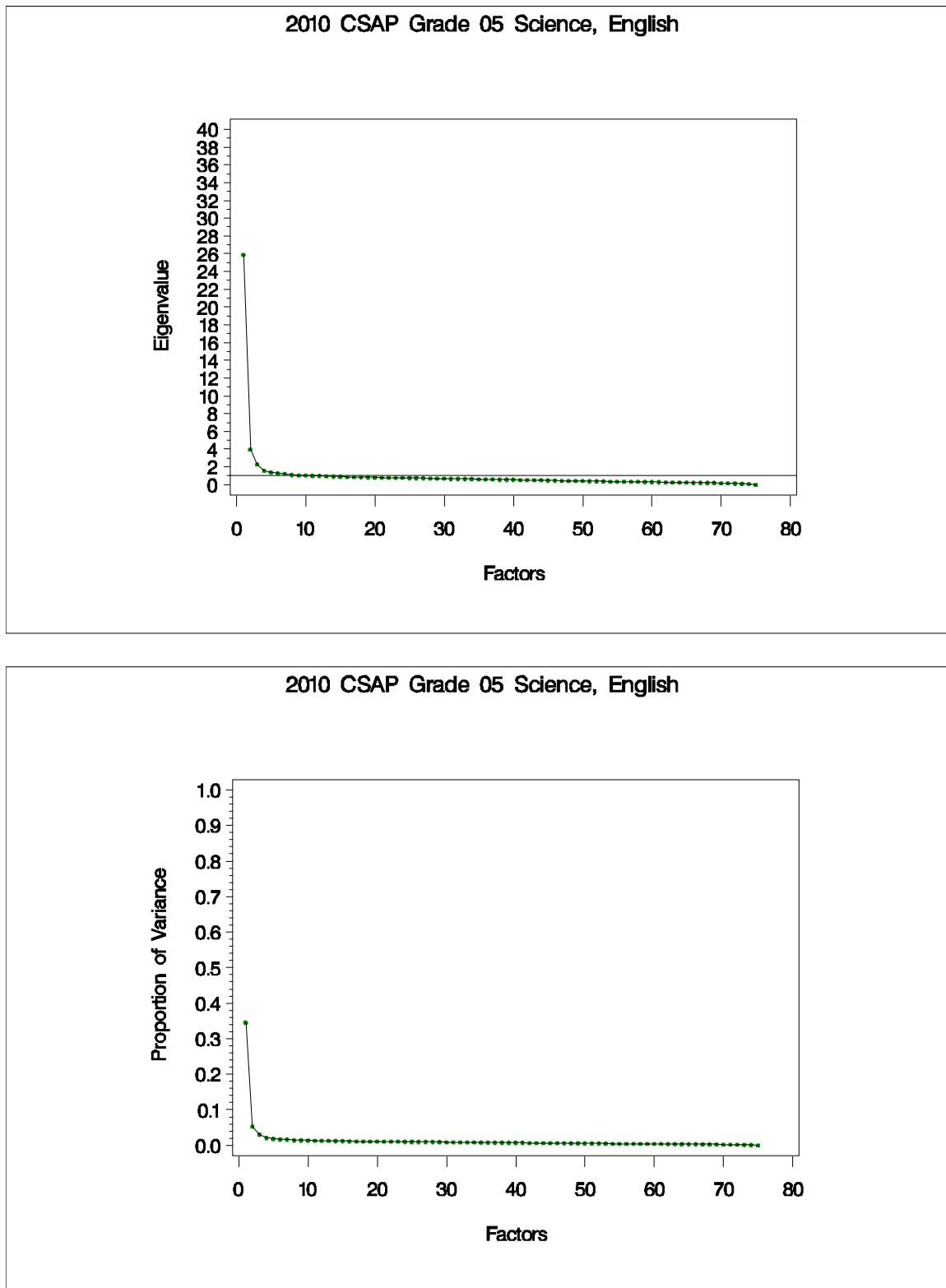


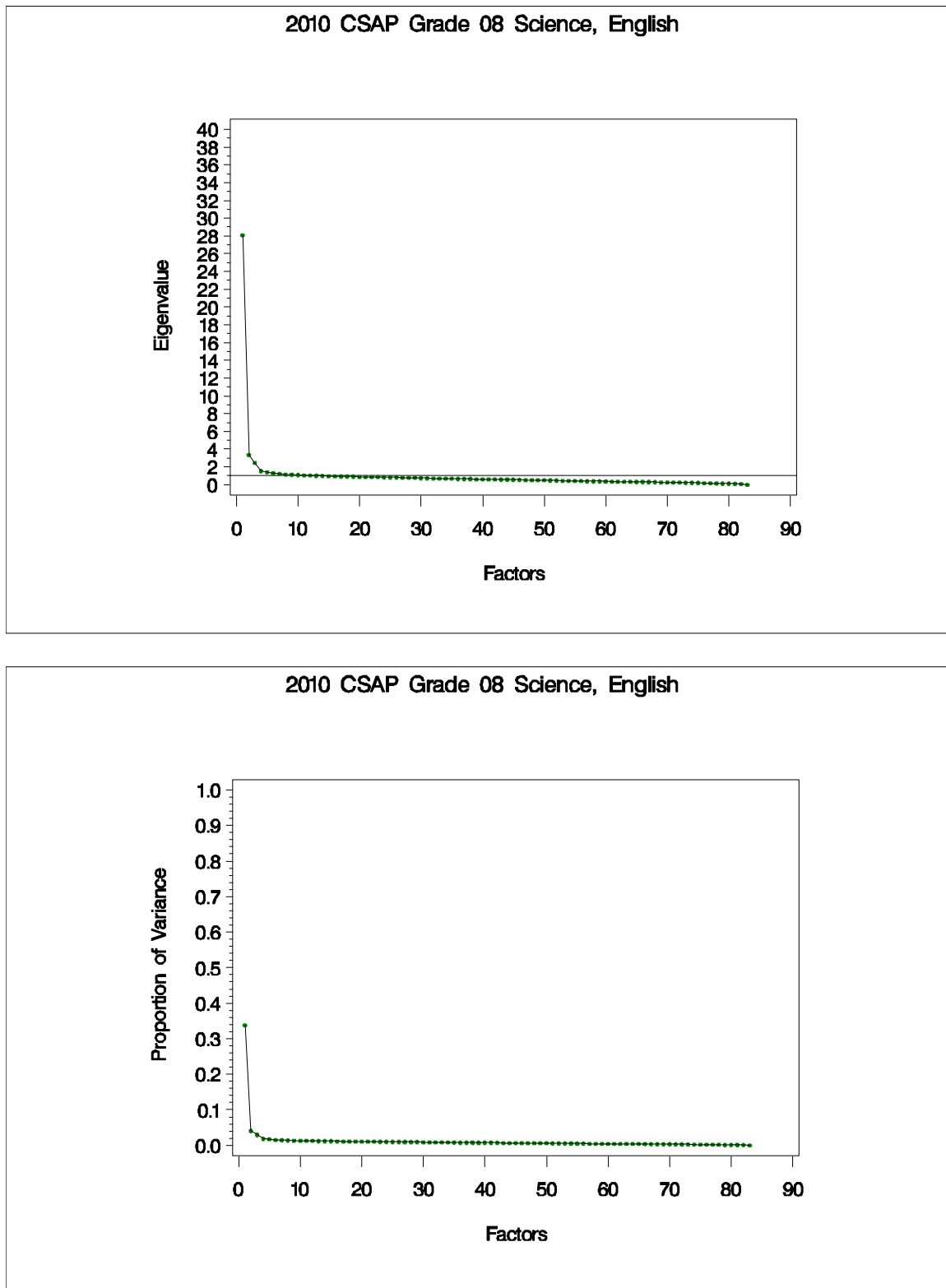
**Figure 92. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 9**

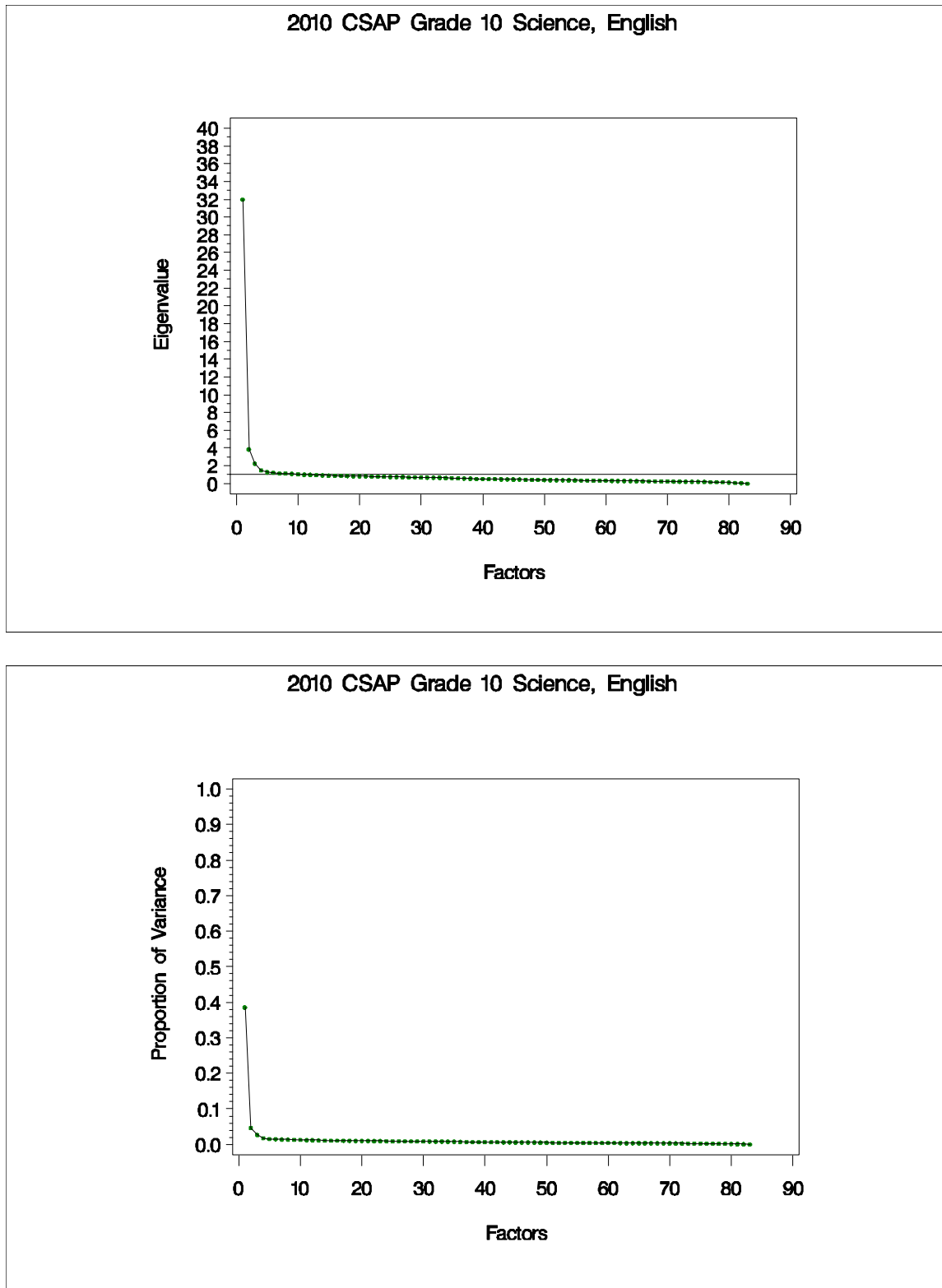


**Figure 93. Eigenvalues and Proportions of Variance by Factor for CSAP Mathematics Grade 10**



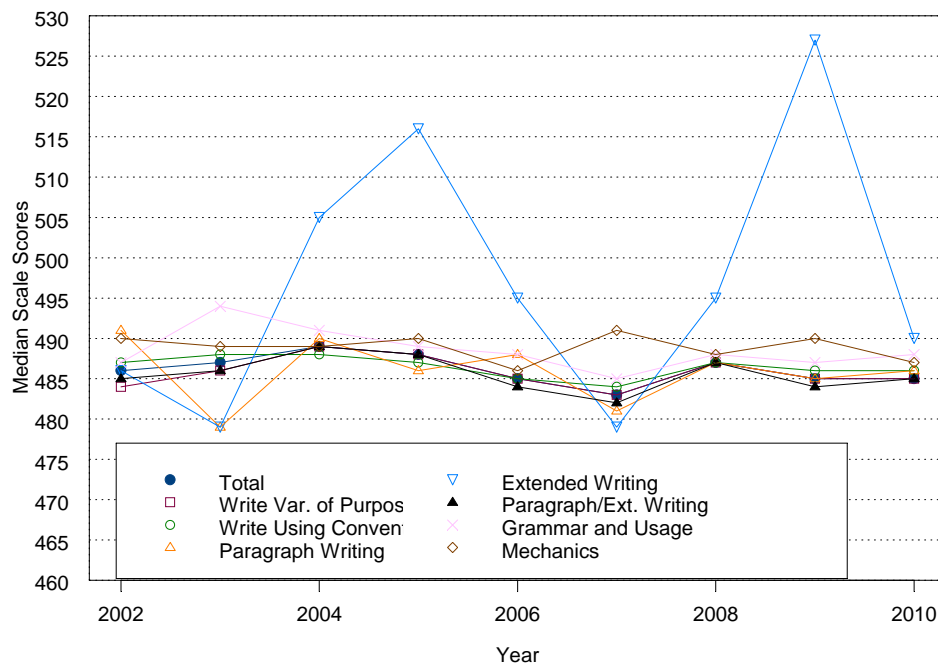
**Figure 94. Eigenvalues and Proportions of Variance by Factor for CSAP Science Grade 5**

**Figure 95. Eigenvalues and Proportions of Variance by Factor for CSAP Science Grade 8**

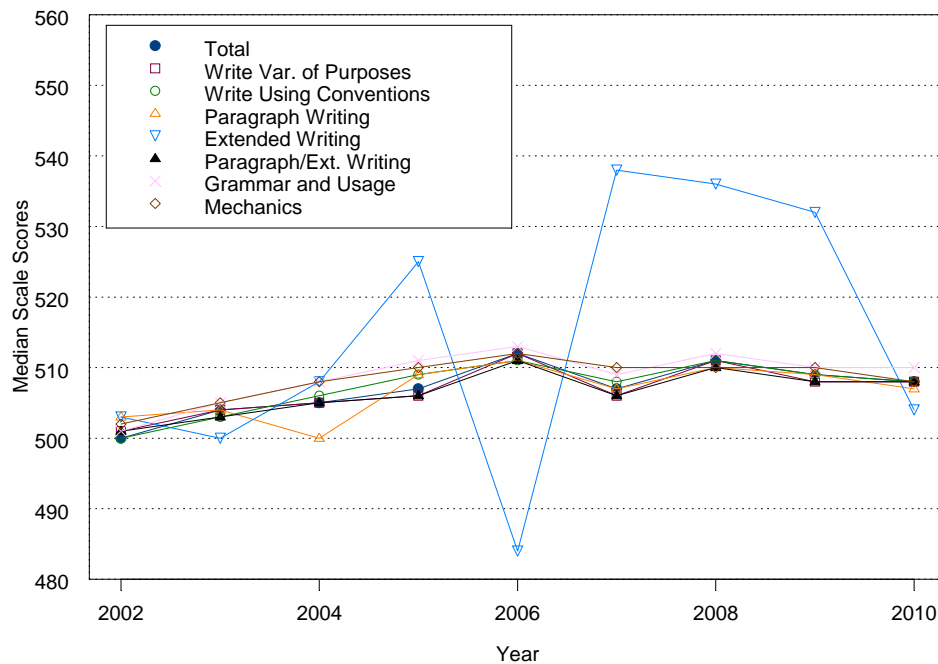
**Figure 96. Eigenvalues and Proportions of Variance by Factor for CSAP Science Grade 10**

**Figure 97. Median Scale Scores by Year for Writing Subcontent Areas: Grade 4**

## CSAP Writing Grade 4: 2002-2010

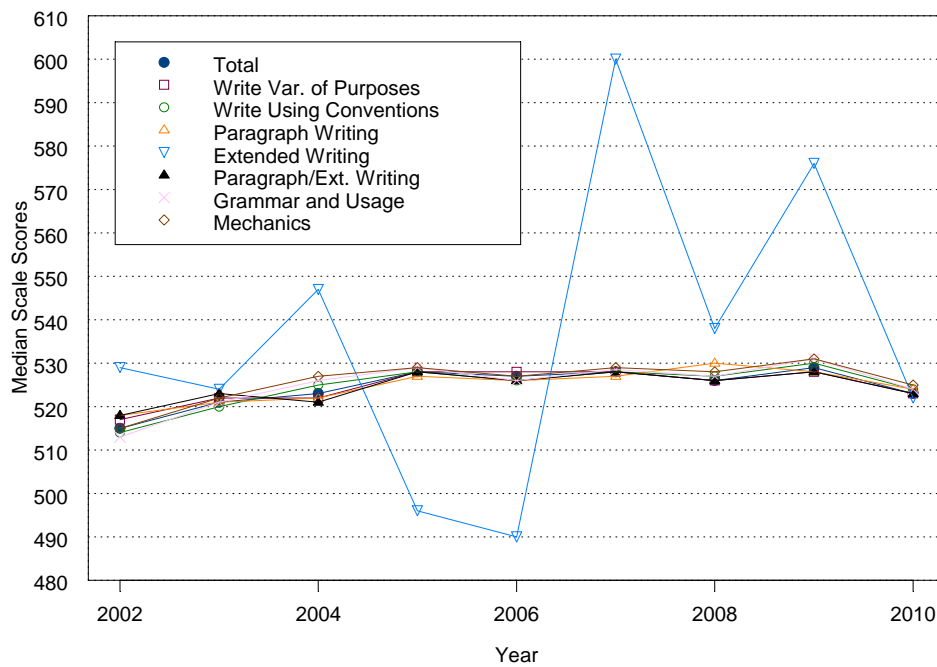
**Figure 98. Median Scale Scores by Year for Writing Subcontent Areas: Grade 5**

## CSAP Writing Grade 5: 2002-2010

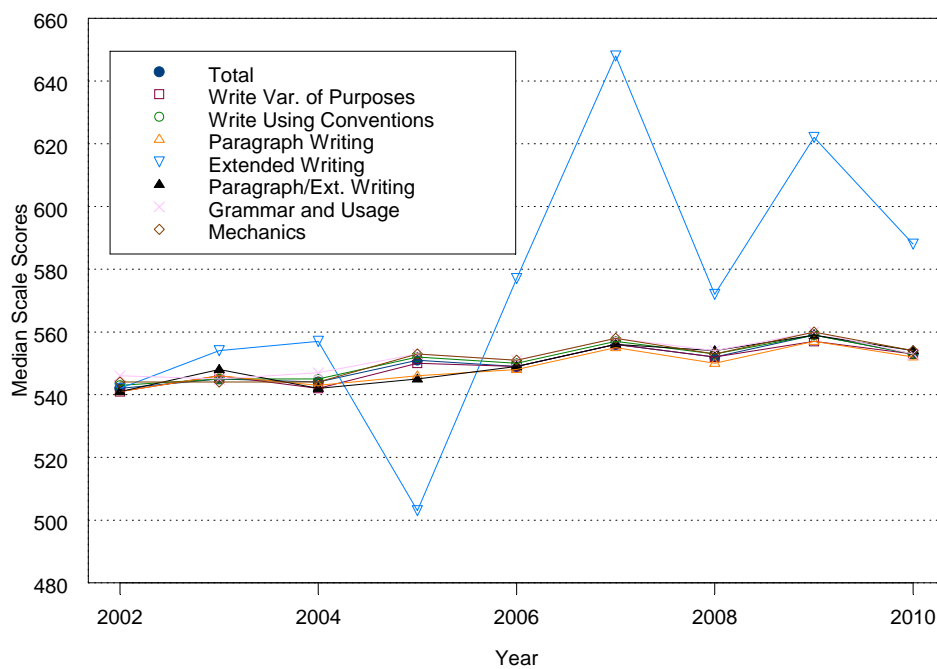


**Figure 99. Median Scale Scores by Year for Writing Subcontent Areas: Grade 6**

## CSAP Writing Grade 6: 2002-2010

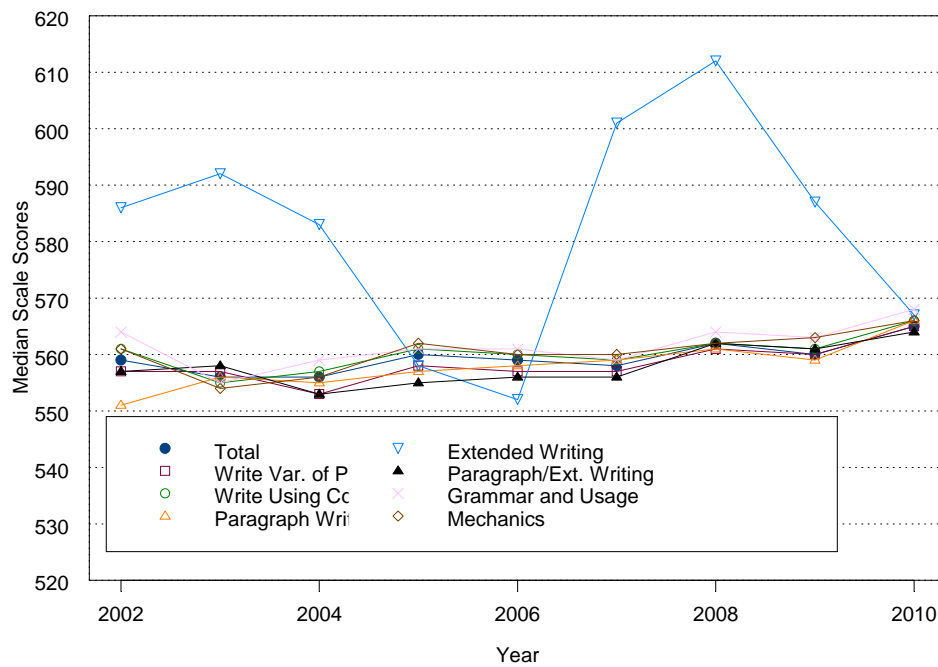
**Figure 100. Median Scale Scores by Year for Writing Subcontent Areas: Grade 7**

## CSAP Writing Grade 7: 2002-2010

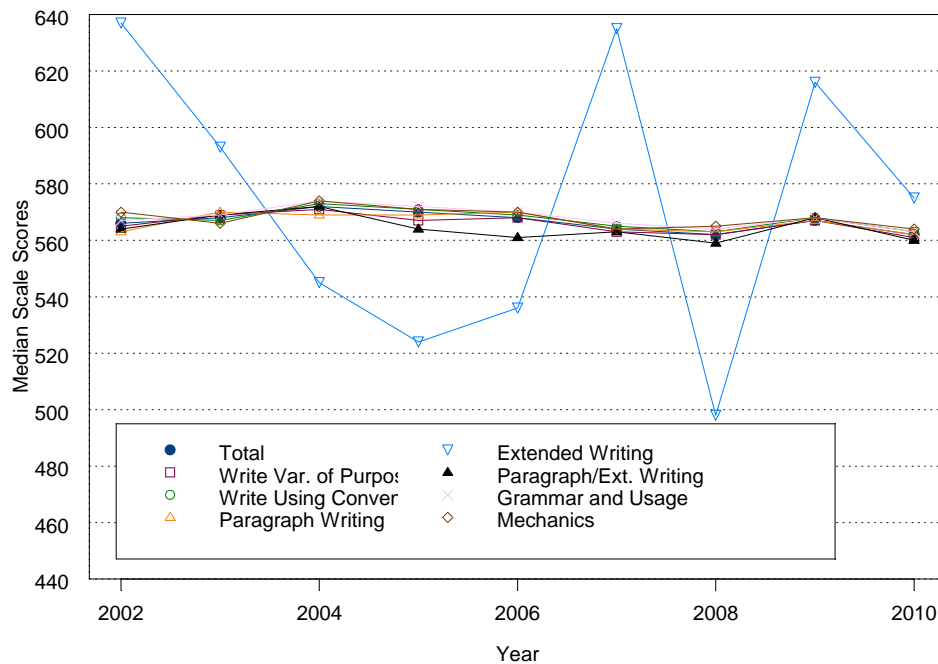


**Figure 101. Median Scale Scores by Year for Writing Subcontent Areas: Grade 8**

## CSAP Writing Grade 8: 2002-2010

**Figure 102. Median Scale Scores by Year for Writing Subcontent Areas: Grade 9**

## CSAP Writing Grade 9: 2002-2010





**Figure 103. Median Scale Scores by Year for Writing Subcontent Areas: Grade 10**

CSAP Writing Grade 10: 2002-2010

