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CMAS Mathematics Blueprints: Percentage Targets

Grades 3-5

	Grade 3		Grade 4		Grade 5
Type 1	61-62%		61-62%		61-62%
1.1	49-50%		37-38%		37-38%
1.2	12%		24%		24%
1.4	-		-		-
Subclaim A: Major Content	43-44%		47-48%		45-46%
Subclaim B: Supporting Content	18%		14%		16%
Type 2	20-22%		20-22%		20-22%
2.3	6-12%		6-12%		6-12%
2.4	8-16%		8-16%		8-16%
Subclaim C: Expressing Mathematical Reasoning	20-22%		20-22%		20-22%
Type 3	18%		18%		18%
3.3	6%		6%		6%
3.6	12%		12%		12%
Subclaim D: Modeling and Application	18%		18%		18%
Calculator	-		-		-
Non-calculator	100%		100%		100%
Total (produces scale score and performance level)	100% 50-51 poings		100% 50-51 points		100% 50-51 points

Figure 1. Mathematics Grades 3–5 Blueprint

CMAS Mathematics Blueprints: Percentage Targets

Grades 6-8

	Grade 6		Grade 7		Grade 8
Type 1	61-62%		61-62%		61-62%
1.1	37-38%		37-38%		33-34%
1.2	16%		16%		12-20%
1.4	8%		8%		8-16%
Subclaim A: Major Content	39-40%		45-46%		41-42%
Subclaim B: Supporting Content	22%		16%		20%
Type 2	20-22%		20-22%		20-22%
2.3	6-12%		6-12%		6-12%
2.4	8-16%		8-16%		8-16%
Subclaim C: Expressing Mathematical Reasoning	20-22%		20-22%		20-22%
Type 3	18%		18%		18%
3.3	6%		6%		6%
3.6	12%		12%		12%
Subclaim D: Modeling and Application	18%		18%		18%
Calculator	72-73%		76%		72-73%
Non-calculator	27-28%		24%		27-28%
Total (produces scale score and performance level)	100% 50-51 poings		100% 50-51 points		100% 50-51 points

Figure 2. Mathematics Grades 6–8 Blueprint

CMAS English Language Arts/Literacy Blueprints: Percentage Targets

Grades 3-5

	Grade 3 (includes CSLA)	Grade 4 (includes CSLA)	Grade 5
Reading (produces scale score)	77% (63%)	78% (63%)	77% (62%)
Literary Text	32% (26%)	31-34% (25-27%)	32% (25%)
Informational Text	26% (22%)	31% (25%)	32% (25%)
Vocabulary	19% (15%)	14-17% (11-14%)	14% (11%)
Writing	23% (37%)	22% (37%)	23% (38%)
Written Expression	11% (28%)	12% (29%)	12% (30%)
Knowledge and Use of Language Conventions	11% (9%)	10% (8%)	10% (8%)
Total (produces scale score and performance level)	100% 53 (65) points	100% 59 (73) points	100% 57 (71) points

Percentages and numbers without parentheses are based on unweighted scores. Percentages and numbers with parentheses are based on weighted scores.

Scores may not add up as expected due to rounding.

Figure 3. ELA Grades 3–5 Blueprint

CMAS English Language Arts/Literacy Blueprints: Percentage Targets

Grades 6-8

	Grade 6	Grade 7	Grade 8
Reading (produces scale score)	77% (62%)	78% (63%)	78% (63%)
Literary Text	26-29% (21-23%)	28% (23%)	28% (23%)
Informational Text	35% (28%)	34% (28%)	34% (28%)
Vocabulary	13-16% (10-13%)	16% (13%)	16% (13%)
Writing	23% (38%)	22% (38%)	22% (38%)
Written Expression	13% (31%)	13% (30%)	13% (30%)
Knowledge and Use of Language Conventions	10% (8%)	9% (8%)	9% (8%)
Total (produces scale score and performance level)	100% 62 (78) points	100% 64 (80) points	100% 64 (80) points

Percentages and numbers without parentheses are based on unweighted scores. Percentages and numbers with parentheses are based on weighted scores.

Scores may not add up as expected due to rounding.

Figure 4. ELA Grades 6–8 Blueprint

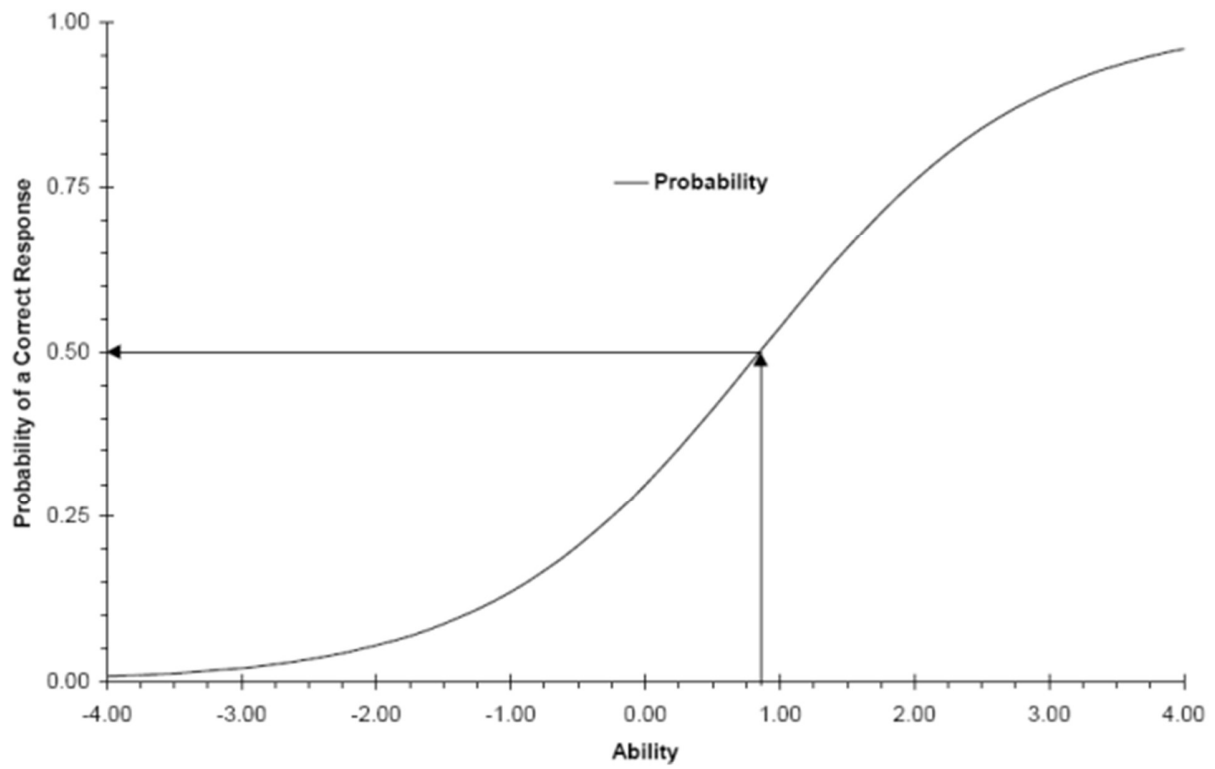


Figure 5. Sample 2PL Item Characteristic Curve

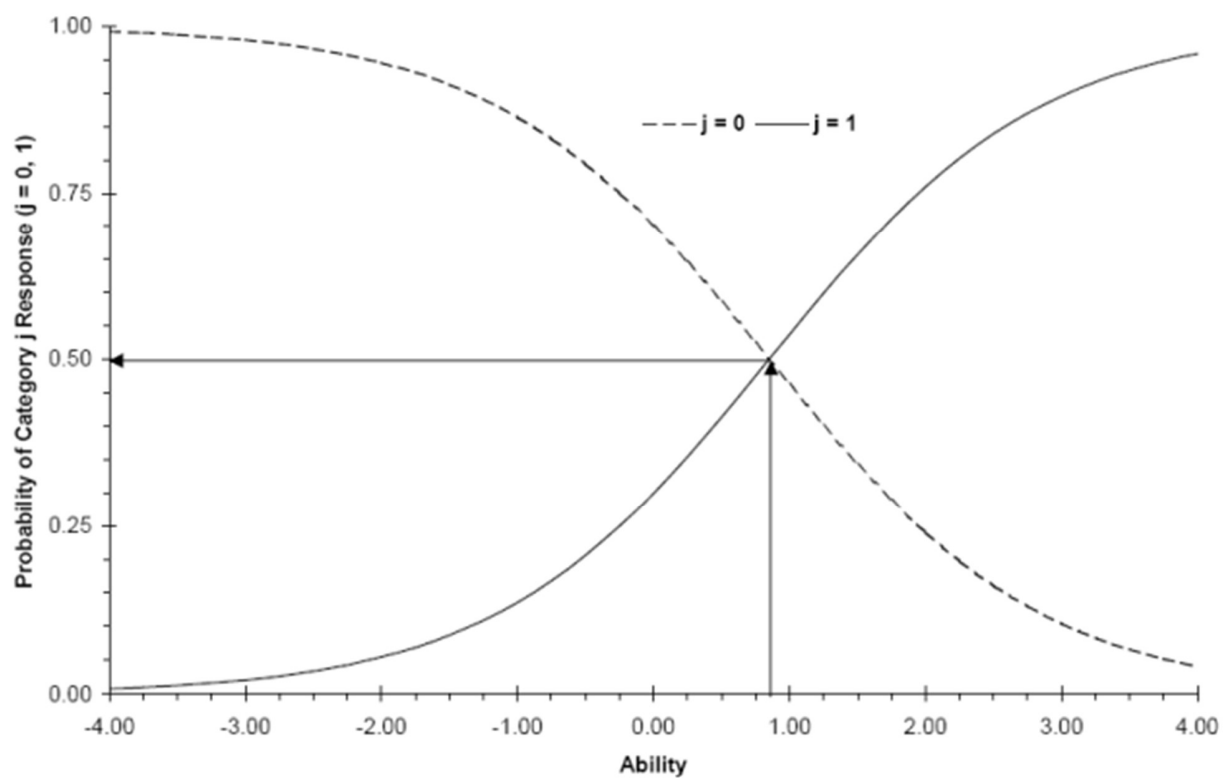


Figure 6. Sample 2PL Item Response Curves

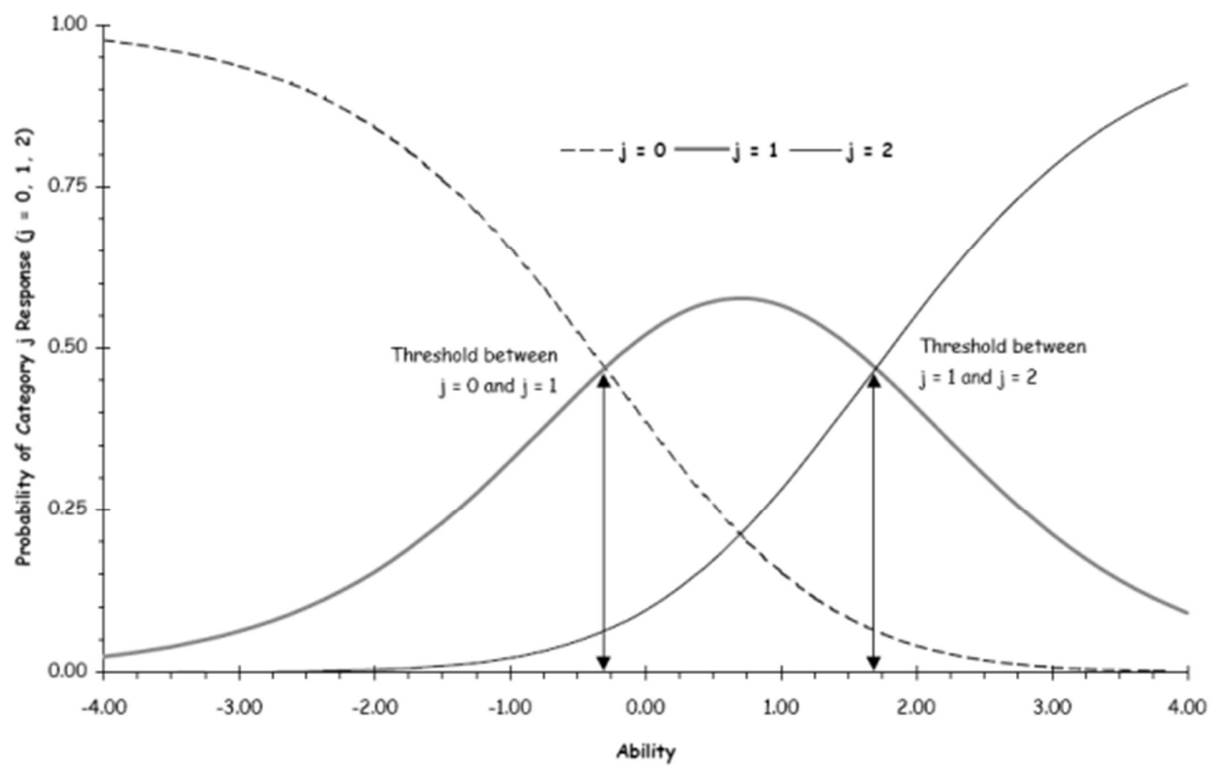


Figure 7. Item Response Curves for a 2-point Item

Item	Form	Key	Corr.	*	PV<15	A%	*	B%	*	C%	*	D%	*	Omit%	Ncount
1	ALL	B	0.49			11		46		24		17		3	6578
2	ALL	D	0.46			17		12		9		59		2	6560
3	ALL	B	0.40			16		50		16		12		6	6572
4	ALL	D	0.47			5		9		21		63		2	6605
5	ALL	C	0.40			3		19		51		26		2	6643
6	ALL	C	0.46			12		5		78		4		2	6614
7	ALL	A	0.30			33		36		15		13		3	6643
8	ALL	C	0.43			21		35		35		6		3	6646

Figure 8. Sample Keycheck Report

Item ID	Func.	Item Response	Scored Response	Freq. Count	% of Total Freq.	Date 1 st Reviewer	1 st Reviewer Initials	Issue? (Y/N)	Description of Issue	Date 2 nd Reviewer	2 nd Reviewer Initials	Issue? (Y/N)	Description of Issue
Item1		A_A1:B_B2	2	28339	59								
Item1		A_A1	1	35	0								
Item1		A_A1:A_A2	1	3782	8								
Item1		A_A1:C_C2	1	4803	10								
Item1		A_A1:D_D2	1	970	2								
Item1			0	56	0								
Item1		A_A2	0	1	0								
Item1		B_B1	0	12	0								
Item1		B_B1:A_A2	0	464	1								
Item1		B_B1:B_B2	0	1038	2								
Item1		B_B1:C_C2	0	844	2								
Item1		B_B1:D_D2	0	405	1								
Item1		B_B2	0	4	0								
Item1		C_C1	0	10	0								
Item1		C_C1:A_A2	0	501	1								
Item1		C_C1:B_B2	0	841	2								
Item1		C_C1:C_C2	0	582	1								
Item1		C_C1:D_D2	0	1510	3								
Item1		C_C2	0	1	0								
Item1		D_D1	0	10	0								
Item1		D_D1:A_A2	0	652	1								

Figure 9. Sample Adjudication Spreadsheet

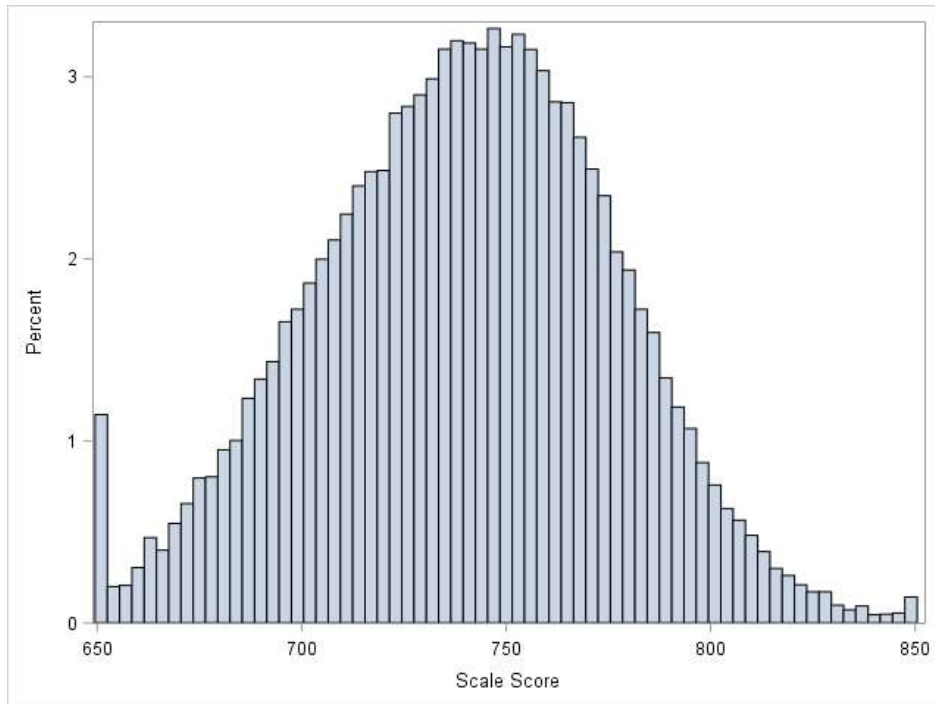


Figure 10. Mathematics Grade 3 Scale Score Distribution

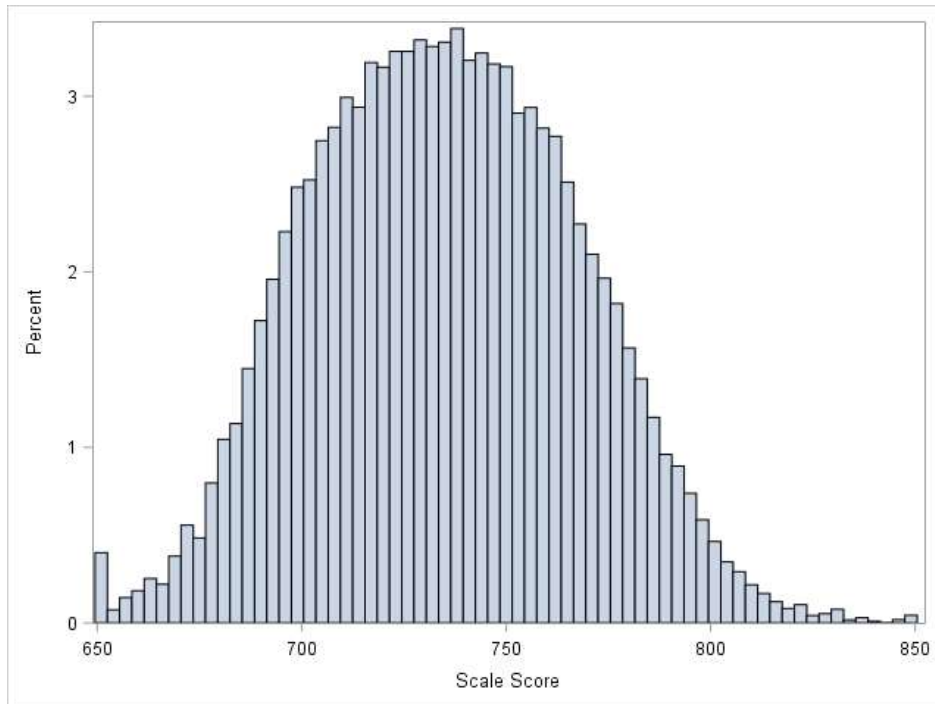


Figure 11. Mathematics Grade 4 Scale Score Distribution

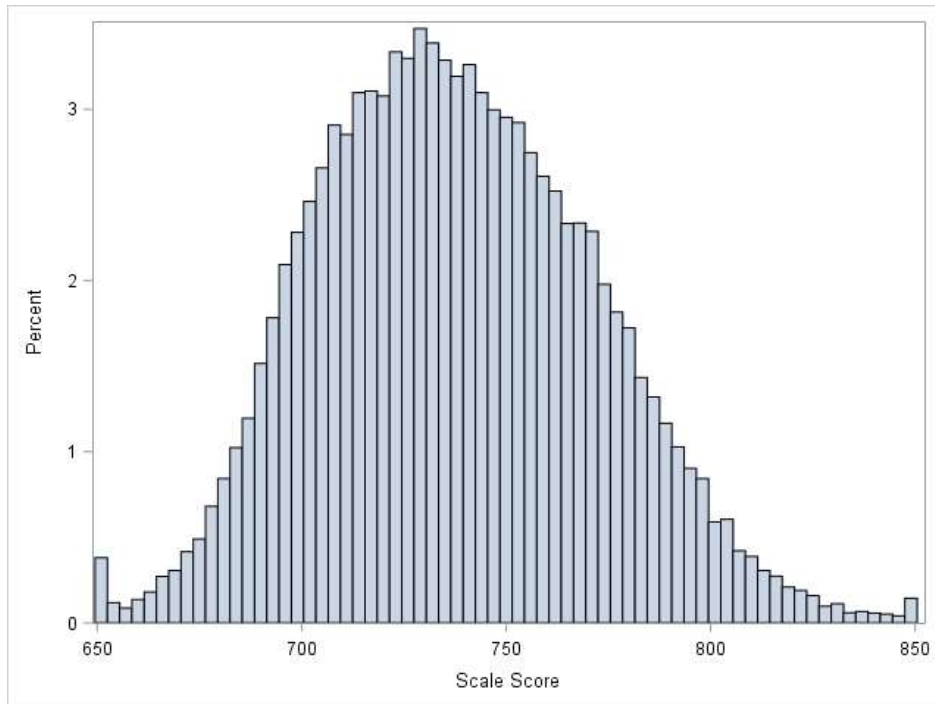


Figure 12. Mathematics Grade 5 Scale Score Distribution

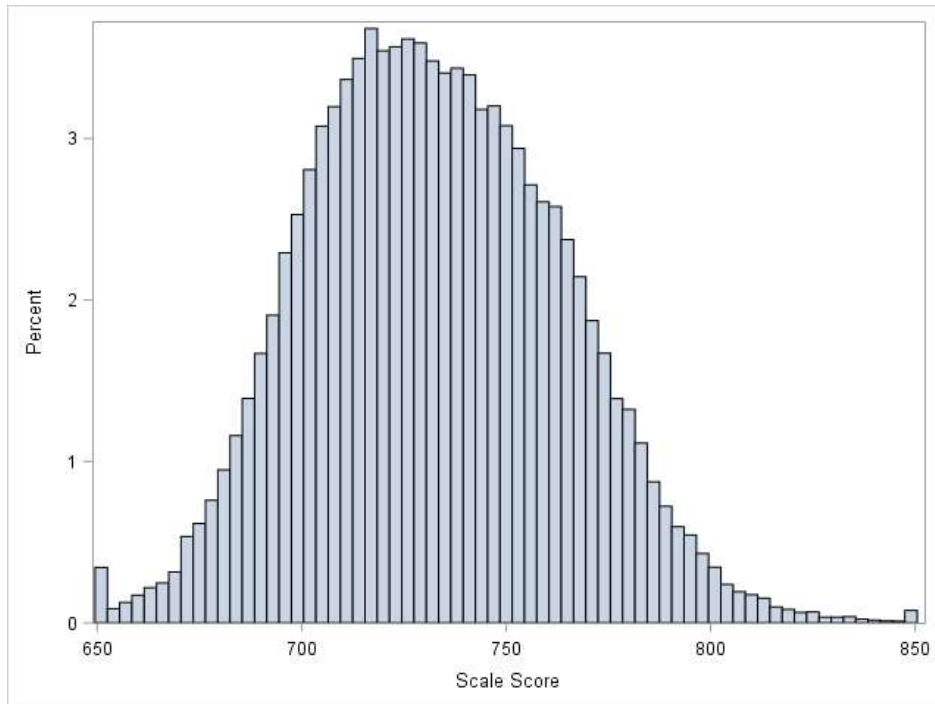


Figure 13. Mathematics Grade 6 Scale Score Distribution

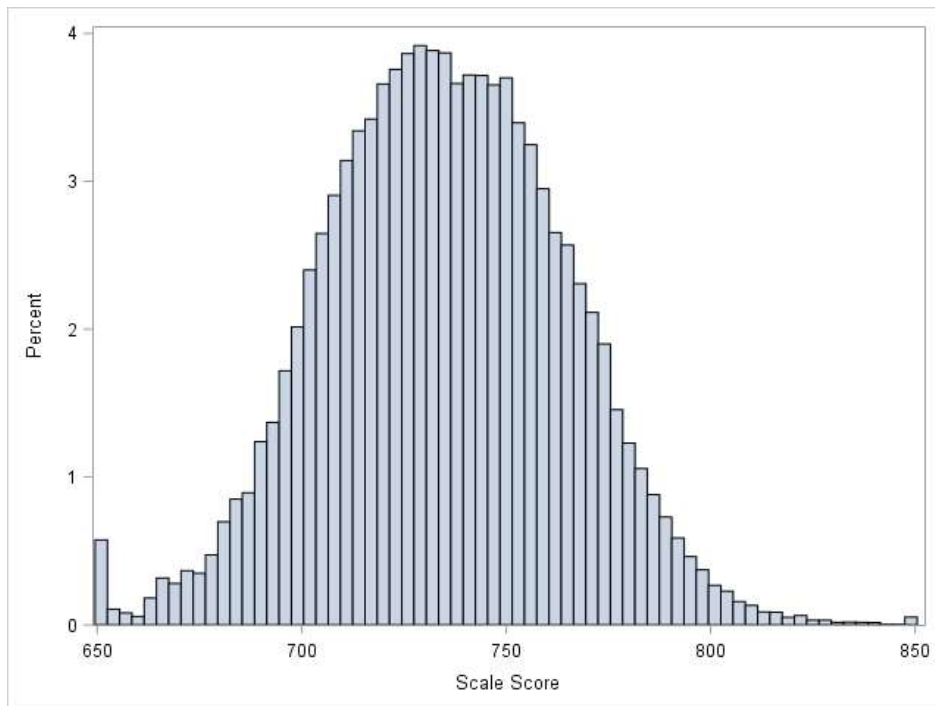


Figure 14. Mathematics Grade 7 Scale Score Distribution

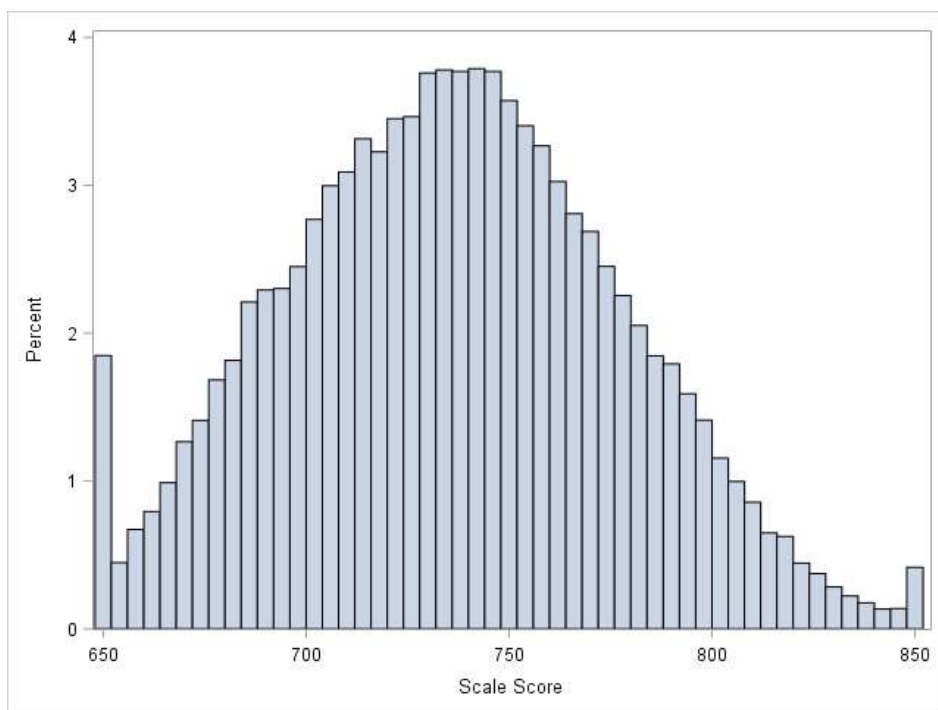


Figure 15. Mathematics Grade 8 Scale Score Distribution

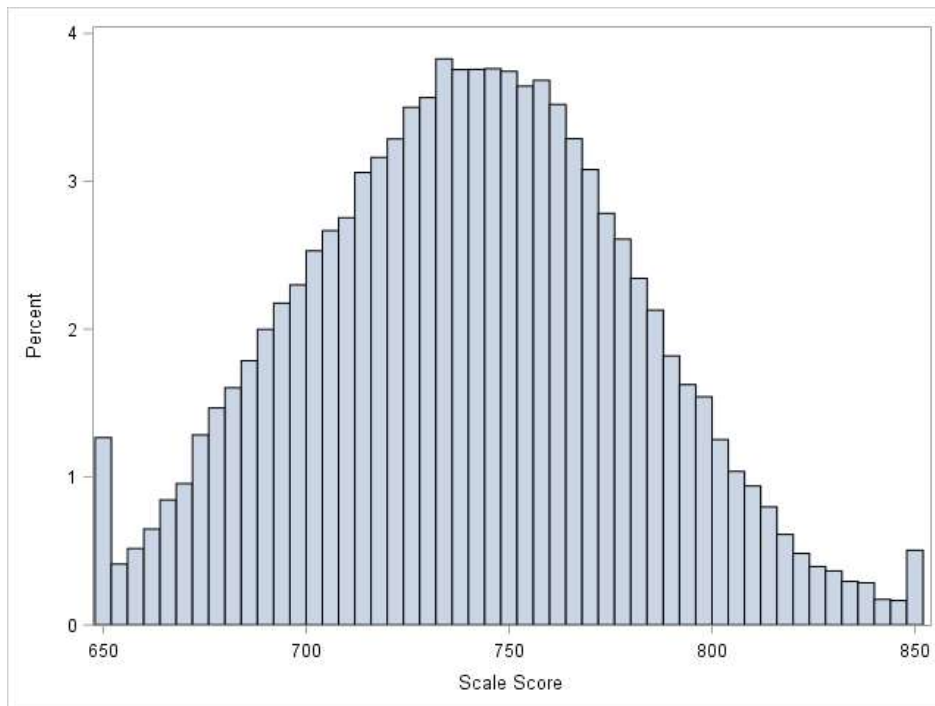


Figure 16. ELA Grade 3 Scale Score Distribution

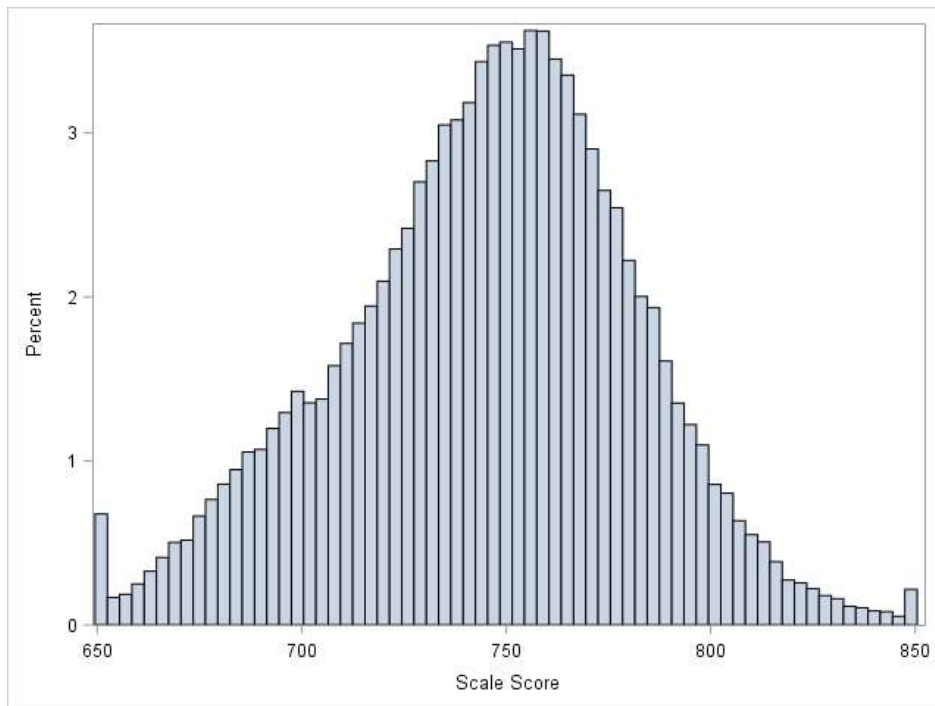


Figure 17. ELA Grade 4 Scale Score Distribution

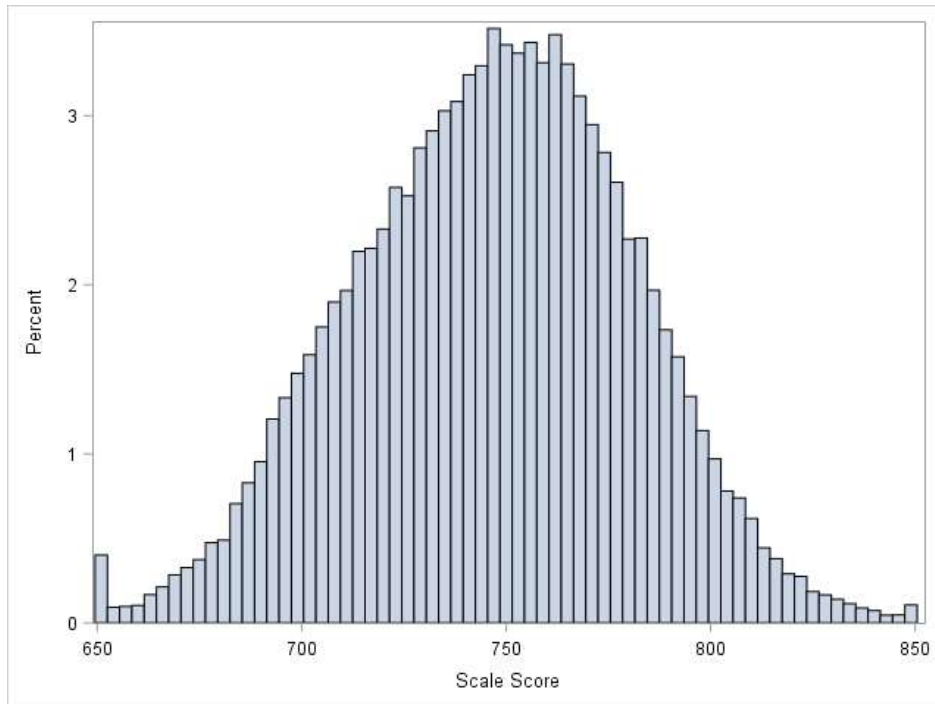


Figure 18. ELA Grade 5 Scale Score Distribution

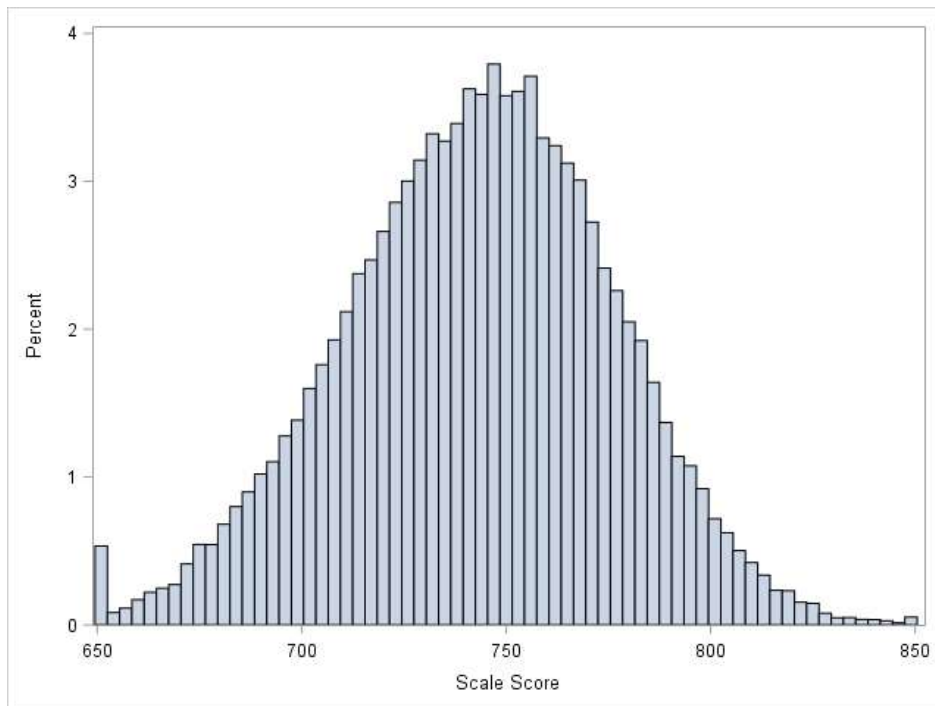


Figure 19. ELA Grade 6 Scale Score Distribution

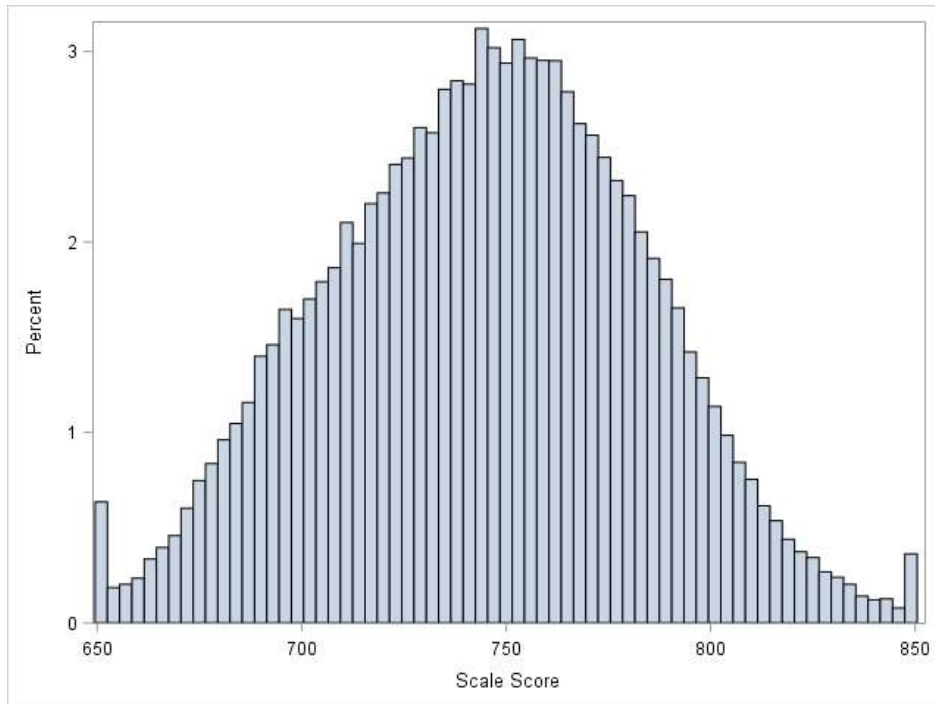


Figure 20. ELA Grade 7 Scale Score Distribution

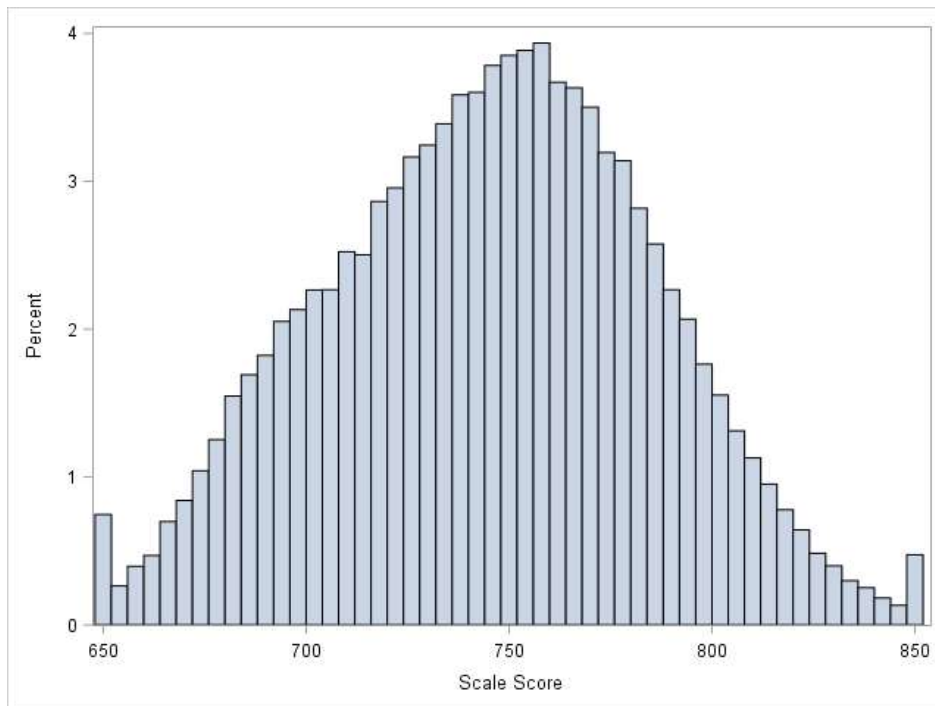


Figure 21. ELA Grade 8 Scale Score Distribution

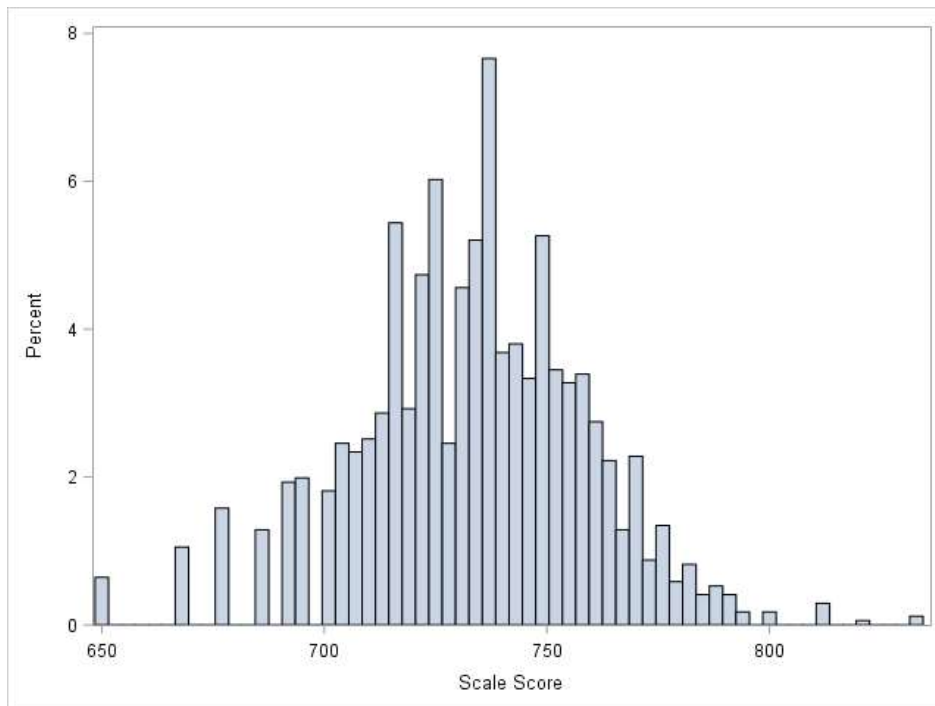


Figure 22. CSLA Grade 3 Scale Score Distribution

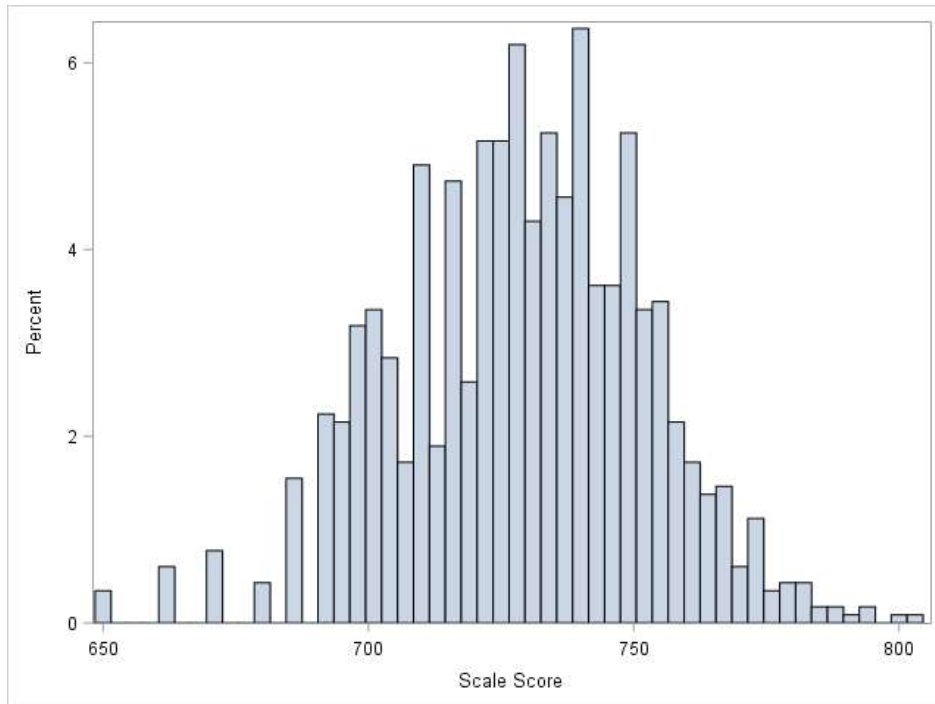


Figure 23. CSLA Grade 4 Scale Score Distribution

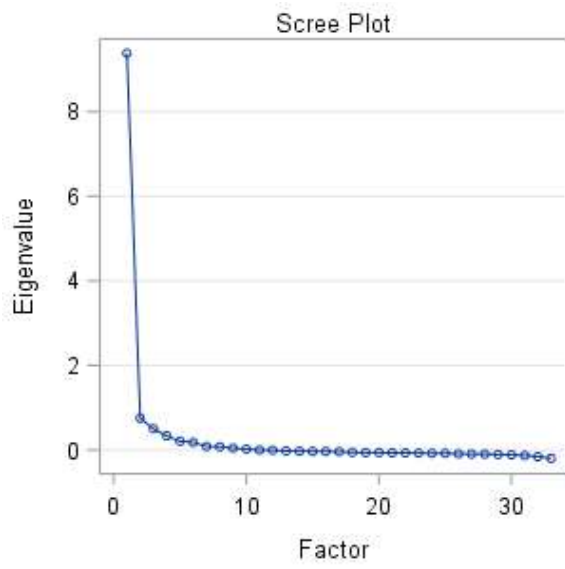


Figure 24. Mathematics Grade 3 Scree Plot

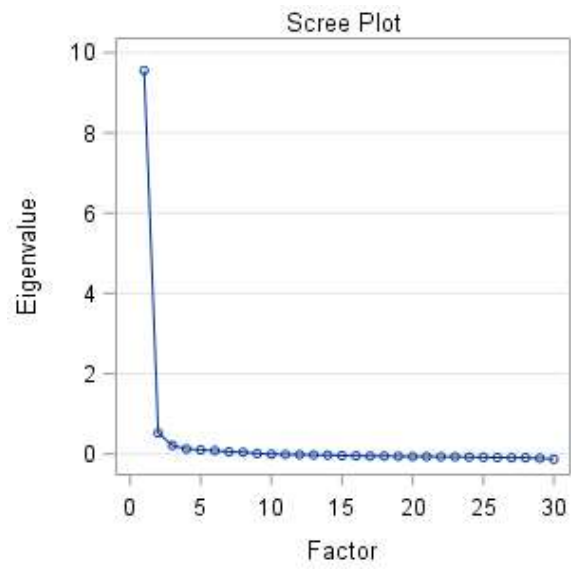


Figure 25. Mathematics Grade 4 Scree Plot

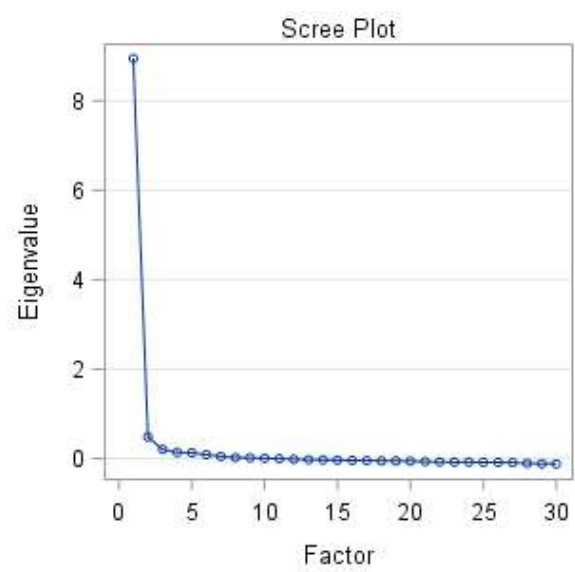


Figure 26. Mathematics Grade 5 Scree Plot

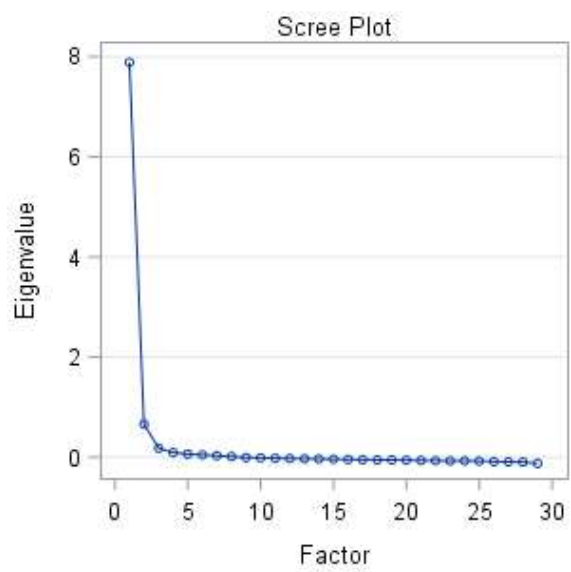


Figure 27. Mathematics Grade 6 Scree Plot

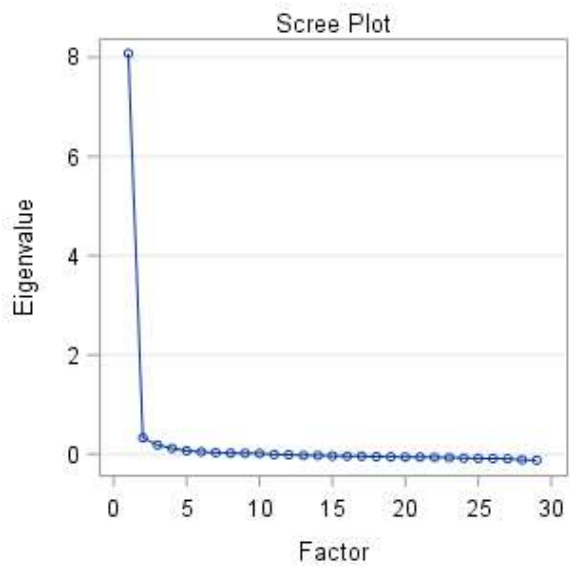


Figure 28. Mathematics Grade 7 Scree Plot

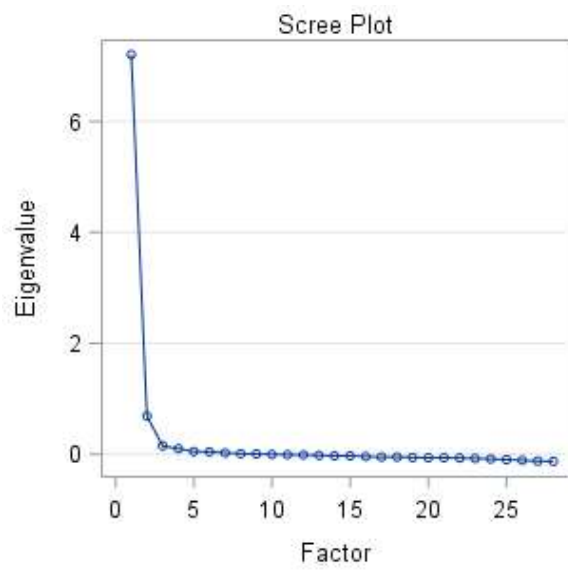


Figure 29. Mathematics Grade 8 Scree Plot

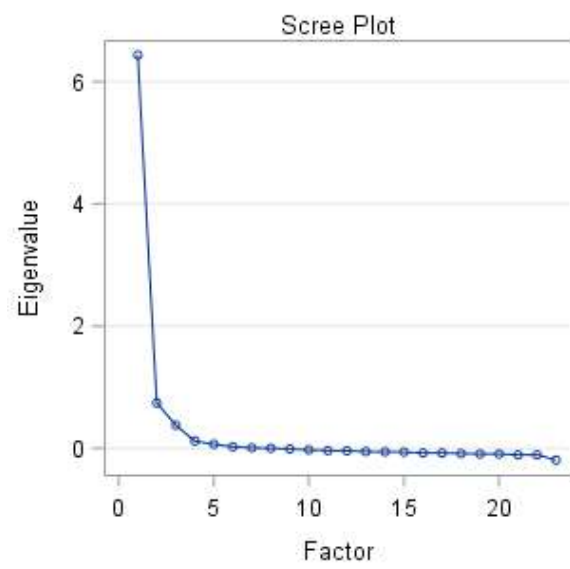


Figure 30. ELA Grade 3 Scree Plot

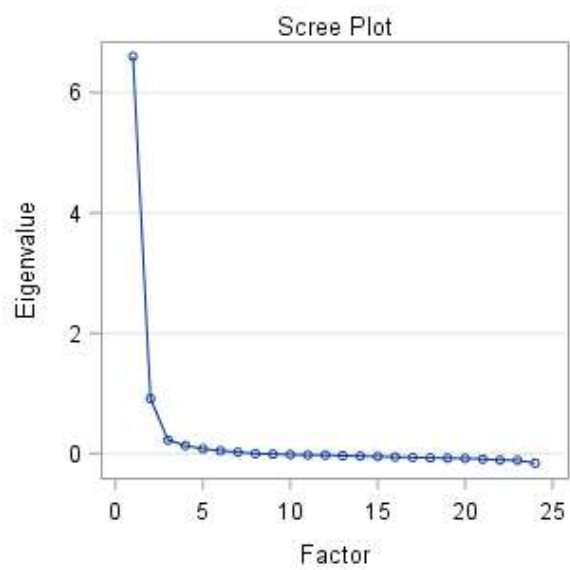


Figure 31. ELA Grade 4 Scree Plot

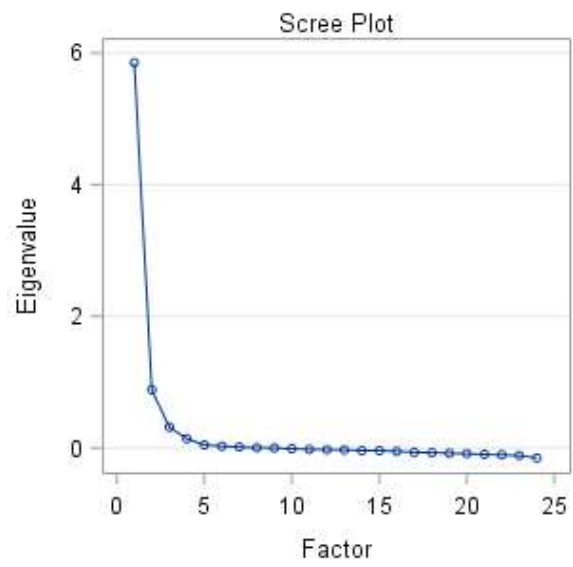


Figure 32. ELA Grade 5 Scree Plot

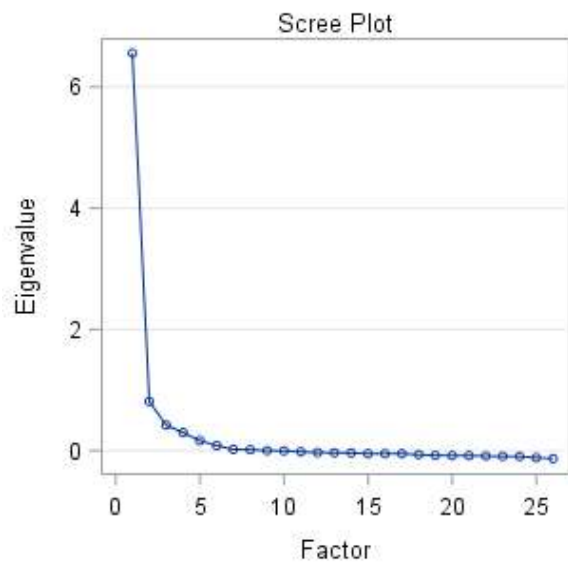


Figure 33. ELA Grade 6 Scree Plot

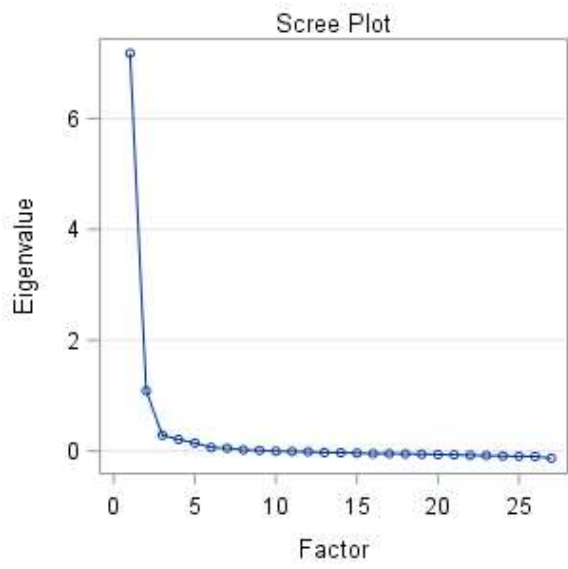


Figure 34. ELA Grade 7 Scree Plot

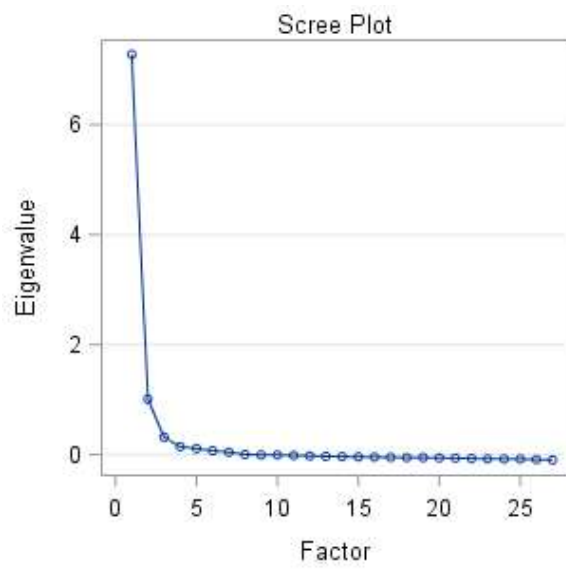


Figure 35. ELA Grade 8 Scree Plot

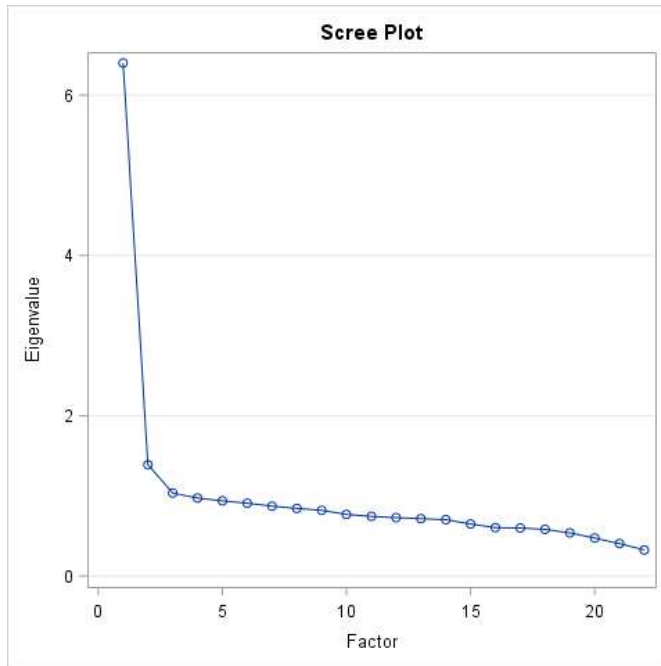


Figure 36. CSLA Grade 3 Scree Plot

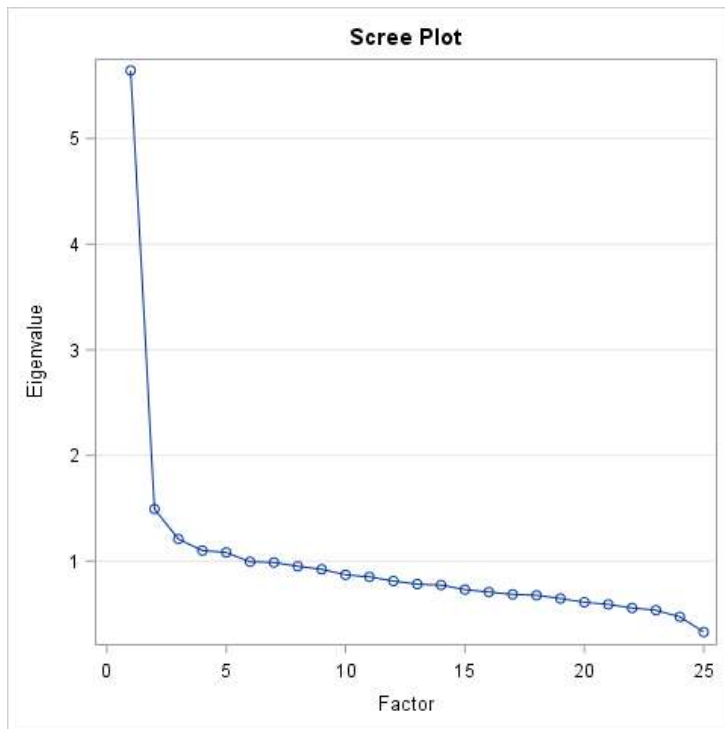


Figure 37. CSLA Grade 4 Scree Plot

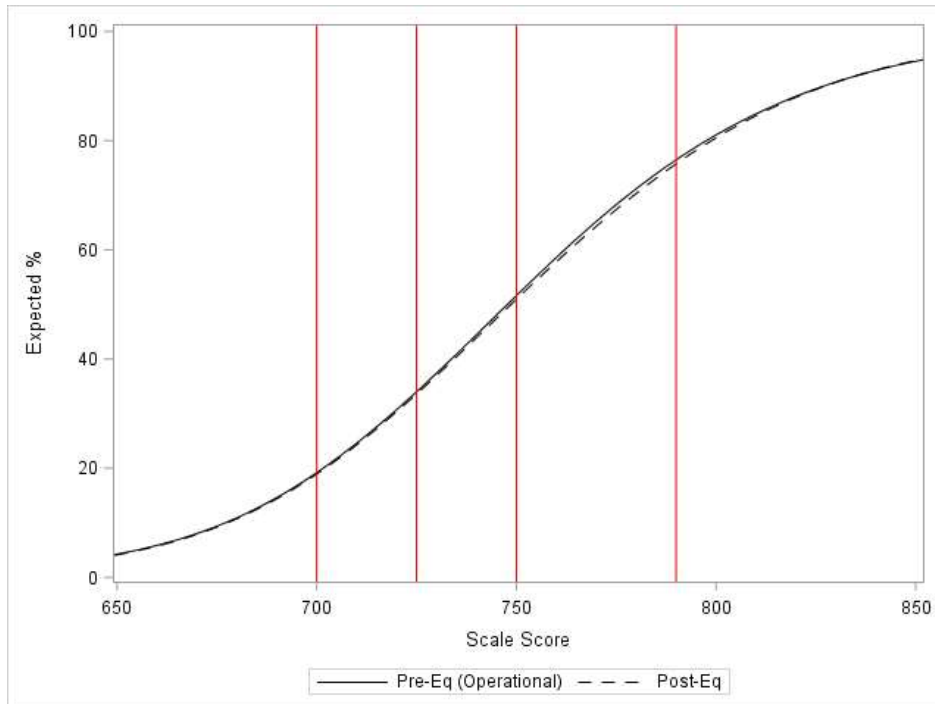


Figure 38. Mathematics Grade 3 Post-Equating Check TCCs

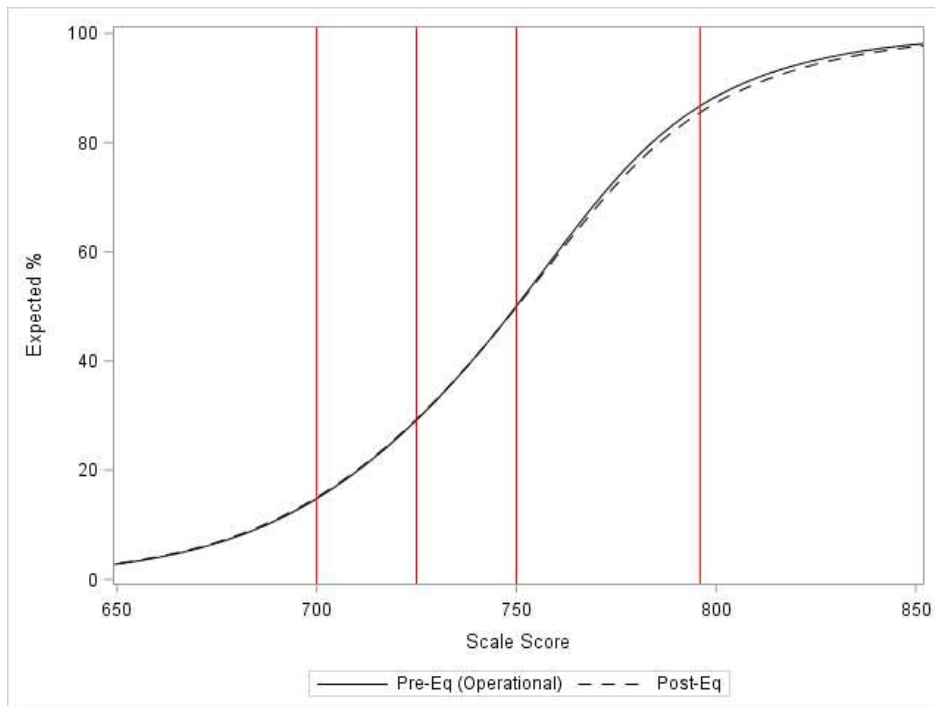


Figure 39. Mathematics Grade 4 Post-Equating Check TCCs

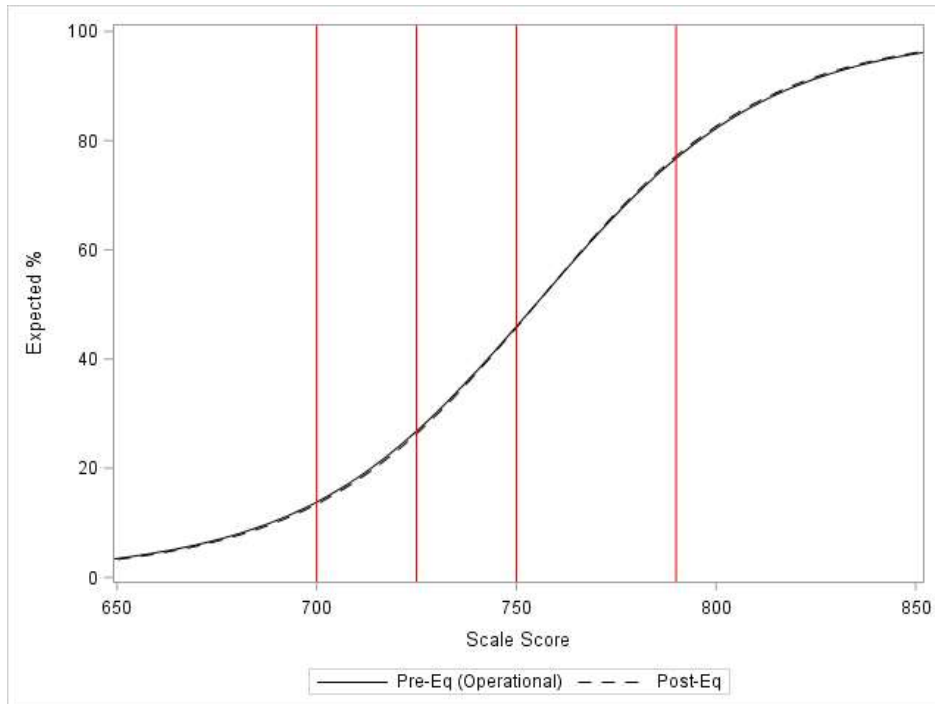


Figure 40. Mathematics Grade 5 Post-Equating Check TCCs

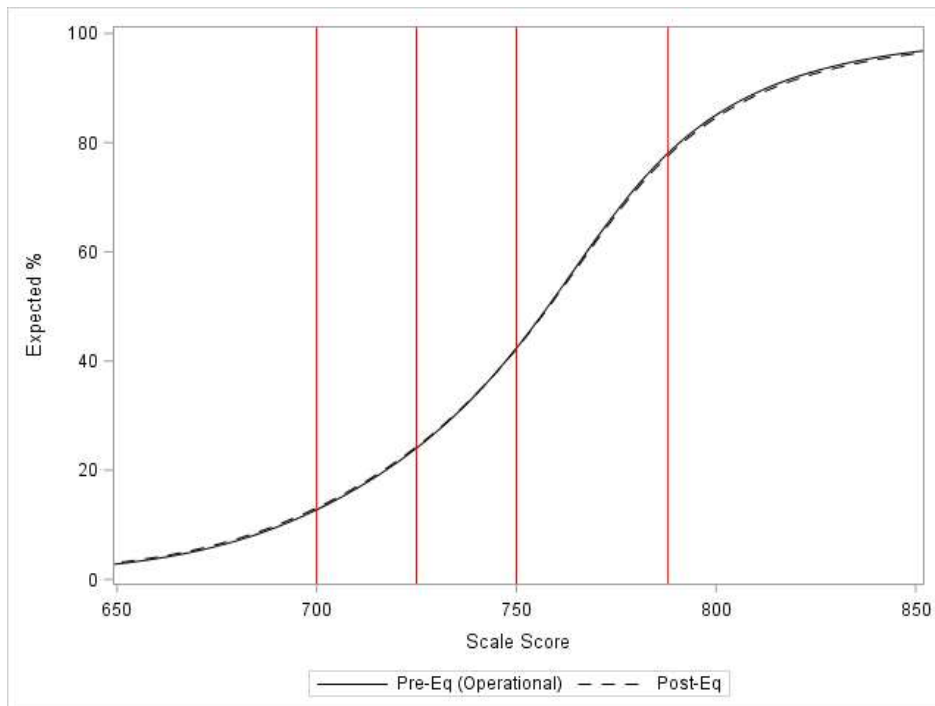


Figure 41. Mathematics Grade 6 Post-Equating Check TCCs

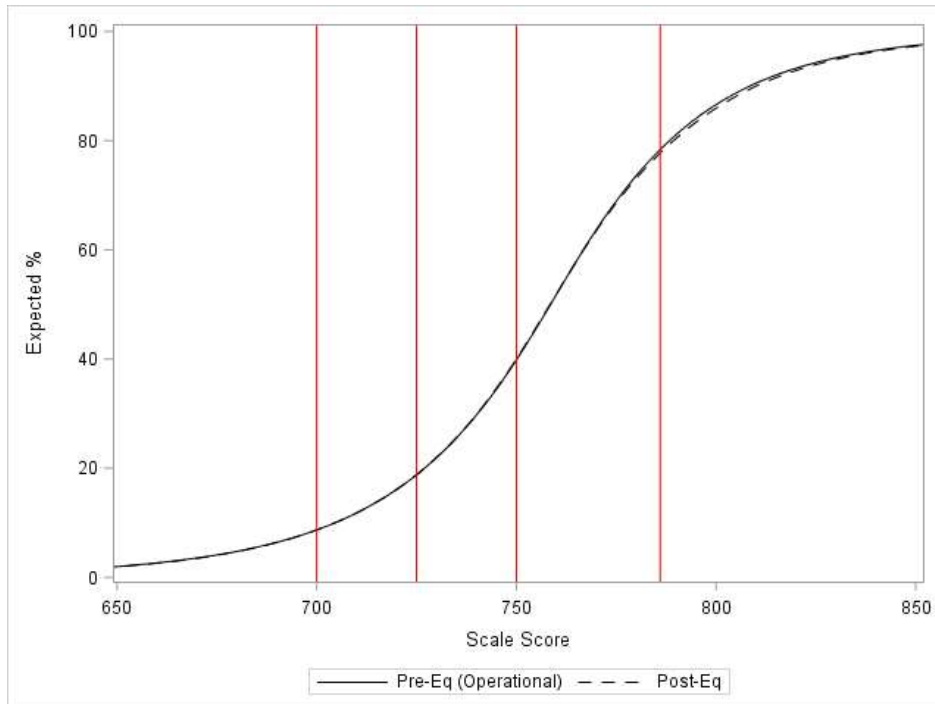


Figure 42. Mathematics Grade 7 Post-Equating Check TCCs