

**Technical Report #1009**

**Diagnostic Efficiency of easyCBM<sup>®</sup> Math: Oregon**

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## **Abstract**

The easyCBM<sup>®</sup> assessment system is an online benchmark and progress monitoring assessment system designed for use within a response to intervention framework. Educators using easyCBM<sup>®</sup> are often interested in using the results to predict students' state test performance. In the following technical document, we report diagnostic efficiency statistics using a large sample from three districts across the state. The Oregon state test was the criterion in a Receiver Operator Characteristics curve analysis. In addition to diagnostic efficiency statistics, optimal cut scores are reported for predicting whether students will meet expectations on the Oregon state test.

## **Diagnostic Efficiency of easyCBM®: Oregon State Test**

In this technical report, we present the results from a study examining optimal cut points for easyCBM®, an online benchmark and progress monitoring assessment system, in relation to the Oregon Assessment of Knowledge and Skills (OAKS), the statewide large-scale assessment. Results are presented seasonally (fall, winter, and spring) for each of grades 3-8, and by student subgroups (e.g., ethnicity, English Language Learner [ELL] status).

### **The easyCBM® Progress Monitoring Assessments**

The online easyCBM® progress monitoring assessment system was launched in September 2006 as part of a Model Demonstration Center on Progress Monitoring funded by the Office of Special Education Programs (OSEP). At the time this technical report was published, 146,622 teachers had registered easyCBM® accounts, representing schools and districts spread across every state in the United States as well as some international sites. During the 2008-2009 school year, an average of 305 new accounts were registered each week, and the popularity of the system continues to grow. In the month of October 2010, alone, 11,885 new teachers registered for accounts. The online assessment system provides both universal screener assessments for fall, winter, and spring administration and multiple alternate forms of a variety of progress monitoring measures designed for use in K-8 school settings.

As part of state and federal policies for Response to Intervention (RTI), states need technically adequate measures for monitoring progress. Given the increasing popularity of the easyCBM® online assessment system, it is imperative that a thorough analysis of the measures' technical adequacy be conducted and the results shared with research and practitioner communities. This technical report addresses that need directly, providing the results of a study

examining the cut points on the easyCBM® assessments in mathematics for optimally predicting student performance on the Oregon state assessment.

## **Methods**

### **Setting and Participants**

Three districts participated in this study. The demographics and number of students in the sample are reported by grade level and district in Table 1. Two of the three participating districts have implemented a district-wide response to intervention (RTI) program. As part of this program, all students, including English language learners and/or students with learning disabilities, participated in seasonal easyCBM® benchmark screeners. All students in these districts who were present on the day of testing were included in the study. The third district administered the easyCBM® benchmark assessments to a subset of classes selected to match overall district demographics.

### **Measures**

Two measures were used in this study: the mathematics portion of easyCBM®, and the mathematics portion of the Oregon Assessment of Knowledge and Skills (OAKS), Oregon's state test used for accountability purposes. Comprised of 45 multiple-choice items per test form, easyCBM® is a computer administered assessment designed for use within RTI – a systematic process of identifying and monitoring the progress of students performing below expectations. RTI requires multiple forms of equivalent difficulty. For each grade level, there are 13 alternate forms available on the easyCBM® math system, with 3 designated for seasonal benchmark screenings, and the remaining 10 designating for progress monitoring. All easyCBM® forms were scaled to be of equivalent difficulty with a 1PL Rasch model (Alonzo, Lai, & Tindal, 2009a, 2009b, 2009c; Alonzo & Tindal, 2009a, 2009b; Lai, Alonzo, & Tindal, 2009a, 2009b,

2009c, 2009d). All easyCBM<sup>®</sup> math items were written to align with the National Council of Teachers of Mathematics (NCTM) focal point standards, displayed by grade level in Table 2. Results from the seasonal administrations of easyCBM<sup>®</sup> were used for all analyses in this study. These benchmark tests were administered during the months of September and December, 2009, and May, 2010.

The OAKS, Oregon's statewide test used for accountability, is a computer adaptive test. All scores are reported in Rasch Units, which is a continuous scale ranging from 0 to infinity. According to the Oregon Department of Education, however, most OAKS scores range from 150-300. Results from the OAKS are reported in three performance categories – *Does not meet*, *Meets*, and *Exceeds*. For this study, the passing categories were collapsed into a single *Meets or Exceeds* category. The cut score for *meets* in each of grades 3-8 respectively is: 205, 212, 218, 221, 226, and 230. The Oregon state-testing window was open from October 2009, to May 2010. Testing regulations for Oregon allow students up to three attempts on the state test, with the students' highest score being retained for accountability purposes. The students' best score, and subsequent performance classification, was used for all analyses. Table 3 reports students' average performance on each easyCBM<sup>®</sup> measure by OAKS performance level classification.

### **Data Analysis**

To obtain diagnostic efficiency information, Receiver Operating Characteristics (ROC) curve analyses were conducted with each seasonal easyCBM<sup>®</sup> assessment. Students' performance level classification from the OAKS served as the outcome variable. The ROC analyses were run with all measures in a given grade level simultaneously (i.e., fall, winter, and spring benchmarks). Cases were excluded listwise, with students being dropped from the analysis if any values across the measurement occasions were missing. The ROC analyses

provided the sensitivity and specificity of every possible cut score for each measure. Optimal cut scores were established using the decision rules outlined by Silberglitt and Hintze (2005) as a guide, by which the researchers:

- (a) determine the cut score(s) that yield at least 0.7 for sensitivity and specificity; (b) if possible, increase sensitivity from this point, continuing upward while still maintaining specificity of 0.7, stopping if sensitivity exceeds 0.8; (c) if sensitivity exceeds 0.8 and specificity can still be increased, continue to maximize specificity (while maintaining sensitivity of 0.8); and (d) if both sensitivity and specificity exceed 0.8, repeat steps 2 and 3, using 0.9 as the next cutoff. (p. 316)

As part of the results section, we present all possible cut scores for each measure and the corresponding sensitivity and specificity statistics for each. The chosen cut score in each instance is displayed in bold-faced font.

Given that easyCBM<sup>®</sup> is used within an RTI framework, we felt that the importance of high sensitivity trumped the importance of high specificity. Thus, if there were a “gray zone” for cut score placement, we typically erred on the side of increasing sensitivity. We aimed to increase sensitivity because we felt that it was more important to reduce the number of students who would be falsely classified as a “safe bet” to pass the state test than it was to reduce the number of students who would be falsely classified as at-risk for failure. To further maximize sensitivity we made a slight modification to point (c) of the Silberglitt and Hintze (2005) rules. If no cut score resulted in both sensitivity and specificity statistics being above 0.8, sensitivity was maximized as much as possible while keeping specificity above 0.7, even if a different cut score would have resulted in both statistics being close to 0.8. For example, a cut score of 34.5 (students with scores of 34 and below identified as *at-risk*, 35 and above identified as *not at-risk*)

on the grade 3 spring benchmark would result in sensitivity and specificity both being close to 0.8, but with specificity still slightly below 0.8. Given that both statistics cannot be above 0.8 on this measure, the cut score that maximized sensitivity while keeping specificity above 0.7 was chosen and in this instance, resulted in sensitivity exceeding 0.9. This slight modification was made to support emphasized sensitivity.

After a cut point was chosen using the full sample of students, the file was split by ethnic group and ELL status. A cross-tabulation was run at each season, and with each sample (full sample and subgroups), to examine the effectiveness of the chosen cut scores on easyCBM<sup>®</sup> to predict performance level classification on OAKS. It is important to note that the cross-tabulation was conducted by season, while the ROC analysis was conducted across seasons with listwise deletion. Thus, the samples and corresponding statistics differ slightly.

## **Results**

Following the modified Silberglitt and Hintze (2005) decision rules for establishing optimal cut scores, which further emphasized sensitivity, we determined a single cut point for each of the three easyCBM<sup>®</sup> measures at each grade using the full sample. Tables 4 – 12 report the following statistics derived from the cross-tabulation: (a) failure base rate, (b) false positive and false negative rate, (c) sensitivity and specificity, (d) positive and negative predictive power, and (e) overall correct classification. The overall area under the ROC curve, or AUC, is also reported in the tables and is derived from the ROC analyses. Each table reports a different sample of students.

Pages 25 – 342 report the following for each sample: (a) case processing table reporting the number of students in the analysis; (b) the ROC curve figure, with each line in the figure representing a separate test; and (c) the seasonal cross-tabulation table. When the ROC analysis



had more than 50 students, additional tables were produced reporting the AUC of the measures and the sensitivity and specificity for every possible cut point. These tables and figures are reported for each grade on the following pages by subgroup:

- Full Sample pp. 22 – 69
- American Indian/Alaskan Native pp. 70 – 81
- Asian/Pacific Islander pp. 82 – 119
- Black pp. 120 – 149
- Hispanic pp. 150 – 197
- White pp. 198 – 245
- Multiethnic pp. 246 – 264
- Non-English Language Learners pp. 265 – 312
- English Language Learners pp. 313 – 345

The cut point that was chosen during the full sample analysis is displayed in bold-faced font on all tables for all subgroups. For particular subgroups, a different cut score may have been more optimal, but only the chosen cut score derived from the full sample is bolded, as school districts do not have different cut scores for different subgroups of students.

### **Discussion**

The results of this study suggest optimal cut scores for use in Oregon state schools for each of the easyCBM<sup>®</sup> math benchmark measures. The sensitivity and specificity statistics produced from the ROC curve analyses were the primary statistics used to determine the optimal cut point. Decision rules outlined by Silbergliitt and Hintze (2005) were used as a general guide when determining the optimal cut point; however, a modification was made to further emphasize sensitivity.

The overall AUC was quite strong on each measure, ranging from .86 to .92 for the full sample. The high AUC statistics indicate that the measures may be used to classify students into

groups quite accurately; however, this accuracy is largely dependent upon the cut score placement. It is interesting that at the lower grades, the cut score increased noticeably across seasons, but in the upper grades the increase was slight. For instance, the optimal cut scores across seasons at grade 3 were 27, 32, and 36 for fall, winter, and spring respectively. The cut score moves 9 points over the course of the school year. Yet at grade 7, the optimal cut scores stay at 27 over the course of the school year, and at grade 8 the cut scores only move 2 points. This, perhaps, highlights that the amount of learning occurring over the course of the year is greater in the lower grades than in the upper grades. It is also plausible, however, that the difference in observed cut score movement represents a scaling issue with either easyCBM<sup>®</sup> or the OAKS.

The results of this study provide quite strong evidence for optimal cut score placement for schools and districts within the state of Oregon; however, although these findings mimic the findings from a similar study in Washington state (Anderson, Alonzo, & Tindal, 2010), caution should be advised in extending the interpretation of these results to a national perspective. If a different outcome measure were used, the cut score placement could be substantially different. Even within the state, results should be interpreted with caution given that the sample, although large, came from only 3 districts.

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Table 1  
Demographics

District 1													
Grade	n	% ELL	% Econ Dis	% SPED	Sex		% Ethnicity						Decline/ Missing
					% M	% F	Amer Ind	Asian/Pac Islander	Black	Hispanic	White	Multi	
3	1311	4.7	44.3	15.9	52.8	47.2	1.7	4.7	2.4	10.1	73.2	3.1	4.8
4	1299	4.4	44.7	17.4	50.7	49.3	1.9	4.4	2.8	11.6	70.1	4.6	4.4
5	1357	3.7	43.6	17.4	51.7	48.3	1.8	5.2	2.6	9.9	71.2	3.8	5.5
6	1329	4.0	38.1	18.7	47.9	46.9	2.6	4.8	2.6	9.2	67.3	2.9	1.7
7	1262	3.0	39.8	15.5	47.5	52.5	1.5	5.9	2.8	10.5	70.6	4.6	1.7
8	1298	2.3	38.6	13.7	50.2	49.8	.9	4.7	2.8	10.9	69.0	4.9	6.8
District 2													
3	870	1.1	61.8	17.0	51.0	49.0	1.7	2.0	1.4	19.8	67.0	2.2	6.0
4	818	-	63.3	19.8	57.5	42.5	2.1	1.8	1.6	17.0	66.5	4.0	6.9
5	876	1.4	60.3	19.3	51.8	48.2	2.4	2.1	1.6	16.7	67.9	4.1	5.3
6	846	1.5	58.0	16.9	49.6	50.4	2.6	1.4	1.7	14.9	70.7	3.5	5.2
7	737	3.0	58.3	15.9	52.5	47.5	2.2	1.6	1.1	18.6	67.8	2.8	5.9
8	843	1.9	55.5	15.8	52.1	47.9	1.5	1.4	2.3	16.3	70.6	3.0	5.0
District 3													
3	1707	18.7	-	13.1	51.5	48.4	0.0	7.0	1.9	33.7	52.0	1.5	4.0
4	1623	15.2	-	12.0	51.6	48.3	0.0	7.7	2.2	34.6	49.7	1.7	4.2
5	1618	13.8	-	13.4	52.9	47.0	0.0	8.0	3.1	33.7	49.5	.9	4.8
6	1613	11.9	-	13.0	51.5	48.5	0.7	7.1	2.4	34.0	50.7	1.1	4.1
7	1643	9.3	-	12.4	51.4	48.5	0.9	6.8	2.3	29.1	55.3	1.3	4.4
8	1608	9.1	-	13.2	54.1	45.9	1.0	6.3	2.4	33.3	51.7	1.6	3.7

Table 2

*National Council of Teachers of Mathematics Focal Point Standards*

Grade	Focal Point 1	Focal Point 2	Focal Point 3
3	Number and Operations and Algebra	Number and Operations	Geometry
4	Number and Operations and Algebra	Number and Operations	Measurement
5	Number and Operations and Algebra	Number and Operations	Geometry, Measurement, and Algebra
6	Number and Operations	Algebra	Number and Operations and Ratios
7	Number and Operations and Algebra and Geometry	Measurement Geometry and Algebra	Number and Operations and Algebra
8	Algebra	Geometry and Measurement	Data Analysis Number Operations and Algebra

Table 3  
 Students' Average Performance by State Test Performance Level Classification

Grade	Season	Does not meet	Meets or exceeds
3	Fall	22.76	30.83
	Winter	25.47	33.77
	Spring	29.21	38.33
4	Fall	23.23	33.01
	Winter	24.59	33.66
	Spring	27.19	36.89
5	Fall	22.95	32.33
	Winter	24.58	35.06
	Spring	28.31	39.50
6	Fall	22.89	32.44
	Winter	22.66	33.19
	Spring	25.09	36.93
7	Fall	20.40	31.80
	Winter	20.25	31.56
	Spring	21.69	33.82
8	Fall	19.36	31.08
	Winter	19.45	32.05
	Spring	19.76	32.30

Table 4  
 Resulting Statistics for Each Chosen Cut Score: Full Sample

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	3321	.17	.22	.21	.79	.78	.43	.95	.78	.86
	Winter	32	2153	.19	.31	.14	.86	.69	.39	.95	.72	.86
	Spring	36	3133	.17	.24	.10	.90	.76	.44	.97	.79	.89
4	Fall	29	3743	.15	.26	.12	.88	.74	.37	.97	.76	.89
	Winter	31	2755	.15	.29	.11	.89	.71	.35	.97	.74	.88
	Spring	33	3602	.15	.22	.16	.84	.78	.41	.96	.79	.90
5	Fall	28	3953	.16	.23	.16	.84	.77	.41	.96	.78	.88
	Winter	32	2875	.16	.27	.11	.89	.73	.38	.97	.75	.89
	Spring	35	3766	.15	.15	.20	.80	.85	.49	.96	.84	.91
6	Fall	27	3857	.22	.18	.22	.78	.82	.55	.93	.81	.89
	Winter	28	2488	.22	.20	.16	.84	.80	.54	.95	.81	.91
	Spring	32	2688	.21	.18	.18	.82	.82	.55	.95	.82	.92
7	Fall	27	3607	.18	.23	.14	.86	.77	.46	.96	.79	.88
	Winter	27	2215	.19	.25	.10	.90	.75	.46	.97	.78	.89
	Spring	27	2378	.19	.16	.19	.81	.84	.54	.95	.83	.91
8	Fall	26	3600	.16	.26	.08	.92	.74	.41	.98	.77	.90
	Winter	26	2162	.17	.24	.10	.90	.76	.43	.98	.79	.90
	Spring	28	2263	.17	.27	.07	.93	.73	.41	.98	.77	.92

Note. AUC = Area Under the ROC Curve



Table 5  
 Resulting Statistics for Each Chosen Cut Score: Subgroup American Indian/Alaskan Native

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	32	-	-	-	-	-	-	-	-	-
	Winter	32	15	-	-	-	-	-	-	-	-	-
	Spring	36	35	-	-	-	-	-	-	-	-	-
4	Fall	29	43	-	-	-	-	-	-	-	-	-
	Winter	31	23	-	-	-	-	-	-	-	-	-
	Spring	33	46	-	-	-	-	-	-	-	-	-
5	Fall	28	50	.20	.25	.10	.90	.75	.47	.97	.78	-
	Winter	32	32	-	-	-	-	-	-	-	-	-
	Spring	35	50	.18	.22	.33	.67	.78	.40	.91	.76	-
6	Fall	27	70	.21	.25	.33	.67	.75	.42	.89	.73	-
	Winter	28	35	-	-	-	-	-	-	-	-	-
	Spring	32	48	-	-	-	-	-	-	-	-	-
7	Fall	27	45	-	-	-	-	-	-	-	-	-
	Winter	27	24	-	-	-	-	-	-	-	-	-
	Spring	27	25	-	-	-	-	-	-	-	-	-
8	Fall	26	38	-	-	-	-	-	-	-	-	-
	Winter	26	28	-	-	-	-	-	-	-	-	-
	Spring	28	30	-	-	-	-	-	-	-	-	-

*Note.* Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion). AUC = Area Under the ROC Curve.

Table 6  
 Resulting Statistics for Each Chosen Cut Score: Subgroup Asian/Pacific Islander

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	182	.14	.15	.40	.60	.85	.39	.93	.82	.81
	Winter	32	121	.14	.26	.29	.71	.74	.31	.94	.74	.83
	Spring	36	155	.11	.19	.06	.94	.81	.38	.99	.83	.90
4	Fall	29	273	.09	.20	.04	.96	.80	.32	.99	.81	.90
	Winter	31	234	.09	.24	.05	.95	.76	.27	.99	.78	.92
	Spring	33	258	.09	.18	.33	.67	.82	.27	.96	.80	.86
5	Fall	28	288	.08	.13	.17	.83	.87	.36	.98	.86	.94
	Winter	32	243	.07	.17	.00	1.00	.83	.31	1.00	.84	.95
	Spring	35	275	.09	.05	.28	.72	.95	.60	.97	.93	.96
6	Fall	27	271	.08	.09	.35	.65	.91	.41	.97	.89	.87
	Winter	28	205	.08	.14	.38	.63	.86	.27	.96	.84	.87
	Spring	32	221	.09	.14	.26	.74	.86	.33	.97	.85	.91
7	Fall	27	287	.08	.21	.13	.87	.79	.27	.99	.80	.89
	Winter	27	213	.07	.24	.20	.80	.76	.20	.98	.77	.85
	Spring	27	227	.08	.18	.16	.84	.82	.30	.98	.82	.91
8	Fall	26	257	.06	.18	.13	.88	.82	.25	.99	.82	.89
	Winter	26	202	.06	.14	.17	.83	.86	.28	.99	.86	.91
	Spring	28	203	.06	.16	.00	1.00	.84	.30	1.00	.85	.95

*Note.* Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion).

AUC = Area Under the ROC Curve.

Table 7  
 Resulting Statistics for Each Chosen Cut Score: Subgroup Black

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	63	0.25	0.26	0.19	0.81	0.74	0.52	0.92	0.76	-
	Winter	32	35	-	-	-	-	-	-	-	-	-
	Spring	36	62	0.24	0.32	0.07	0.93	0.68	0.48	0.97	0.74	-
4	Fall	29	110	0.15	0.43	0.18	0.82	0.57	0.26	0.95	0.61	.78
	Winter	31	80	0.15	0.35	0.33	0.67	0.65	0.25	0.92	0.65	.78
	Spring	33	117	0.16	0.39	0.16	0.84	0.61	0.30	0.95	0.65	.84
5	Fall	28	129	0.22	0.41	0.07	0.93	0.59	0.40	0.97	0.67	.87
	Winter	32	103	0.16	0.40	0.06	0.94	0.60	0.30	0.98	0.65	.91
	Spring	35	131	0.22	0.23	0.24	0.76	0.77	0.49	0.92	0.77	.87
6	Fall	27	127	0.23	0.32	0.21	0.79	0.68	0.43	0.92	0.71	.81
	Winter	28	98	0.18	0.26	0.17	0.83	0.74	0.42	0.95	0.76	.86
	Spring	32	104	0.16	0.31	0.12	0.88	0.69	0.36	0.97	0.72	.86
7	Fall	27	112	0.18	0.32	0.20	0.80	0.68	0.36	0.94	0.71	.83
	Winter	27	79	0.16	0.30	0.15	0.85	0.70	0.35	0.96	0.72	.79
	Spring	27	87	0.16	0.23	0.14	0.86	0.77	0.41	0.97	0.78	.90
8	Fall	26	117	0.15	0.36	0.00	1.00	0.64	0.32	1.00	0.69	.92
	Winter	26	81	0.10	0.27	0.00	1.00	0.73	0.29	1.00	0.75	.88
	Spring	28	91	0.13	0.38	0.00	1.00	0.62	0.29	1.00	0.67	.91

Note. Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion).

AUC = Area Under the ROC Curve.

Table 8  
 Resulting Statistics for Each Chosen Cut Score: Subgroup Hispanic

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	734	.31	.35	.14	.86	.65	.52	.91	.71	.83
	Winter	32	583	.31	.52	.11	.89	.48	.43	.91	.61	.82
	Spring	36	646	.30	.45	.07	.93	.55	.48	.95	.67	.84
4	Fall	29	739	.29	.43	.06	.94	.57	.47	.96	.67	.85
	Winter	31	626	.27	.47	.06	.94	.53	.43	.96	.64	.82
	Spring	33	656	.27	.38	.10	.90	.62	.47	.95	.70	.86
5	Fall	28	761	.32	.42	.14	.86	.58	.49	.90	.67	.79
	Winter	32	638	.32	.45	.08	.92	.55	.49	.94	.67	.82
	Spring	35	671	.31	.29	.14	.86	.71	.57	.92	.76	.85
6	Fall	27	741	.40	.32	.18	.82	.68	.63	.85	.74	.85
	Winter	28	589	.41	.38	.14	.86	.62	.61	.86	.72	.84
	Spring	32	521	.38	.28	.11	.89	.72	.66	.91	.78	.89
7	Fall	27	608	.35	.37	.07	.93	.63	.58	.94	.74	.84
	Winter	27	449	.39	.36	.07	.93	.64	.63	.94	.76	.86
	Spring	27	441	.37	.28	.13	.87	.72	.65	.90	.78	.87
8	Fall	26	669	.35	.39	.06	.94	.61	.57	.95	.72	.84
	Winter	26	482	.35	.44	.08	.92	.56	.54	.93	.69	.82
	Spring	28	453	.33	.41	.07	.93	.59	.53	.94	.70	.86

*Note.* Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion).

AUC = Area Under the ROC Curve.

Table 9  
 Resulting Statistics for Each Chosen Cut Score: Subgroup White

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	2161	.13	.19	.25	.75	.81	.37	.95	.80	.86
	Winter	32	1306	.14	.24	.16	.84	.76	.37	.97	.77	.88
	Spring	36	2080	.14	.18	.14	.86	.82	.43	.97	.82	.90
4	Fall	29	2343	.11	.22	.17	.83	.78	.33	.97	.79	.89
	Winter	31	1617	.12	.24	.14	.86	.76	.32	.98	.77	.88
	Spring	33	2281	.13	.17	.18	.82	.83	.41	.97	.82	.90
5	Fall	28	2527	.12	.18	.18	.82	.82	.37	.97	.82	.90
	Winter	32	1728	.12	.23	.16	.84	.77	.33	.97	.78	.90
	Spring	35	2157	.12	.13	.24	.76	.87	.44	.97	.86	.92
6	Fall	27	2495	.18	.15	.23	.77	.85	.52	.95	.83	.91
	Winter	28	1473	.16	.15	.15	.85	.85	.52	.97	.85	.93
	Spring	32	1676	.17	.14	.22	.78	.86	.52	.95	.84	.93
7	Fall	27	2387	.15	.20	.18	.82	.80	.42	.96	.80	.89
	Winter	27	1356	.14	.22	.12	.88	.78	.40	.98	.80	.91
	Spring	27	1499	.15	.13	.23	.77	.87	.52	.95	.86	.91
8	Fall	26	2331	.12	.23	.08	.92	.77	.34	.99	.79	.92
	Winter	26	1298	.12	.20	.13	.87	.80	.37	.98	.81	.92
	Spring	28	1394	.13	.23	.08	.92	.77	.37	.99	.79	.93

*Note.* Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion).

AUC = Area Under the ROC Curve.

Table 10  
 Resulting Statistics for Each Chosen Cut Score: Subgroup Multiethnic

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	77	.06	.24	.20	.80	.76	.19	.98	.77	-
	Winter	32	37	-	-	-	-	-	-	-	-	-
	Spring	36	68	.06	.23	.00	1.00	.77	.21	1.00	.78	-
4	Fall	29	168	.11	.21	.11	.89	.79	.34	.98	.80	.95
	Winter	31	120	.09	.22	.18	.82	.78	.27	.98	.78	.91
	Spring	33	168	.13	.20	.23	.77	.80	.37	.96	.80	.90
5	Fall	28	114	.13	.29	.13	.87	.71	.31	.97	.73	.87
	Winter	32	73	.12	.31	.11	.89	.69	.29	.98	.71	.87
	Spring	35	109	.13	.15	.36	.64	.85	.39	.94	.83	.94
6	Fall	27	94	.23	.14	.45	.55	.86	.55	.86	.79	-
	Winter	28	48	-	-	-	-	-	-	-	-	-
	Spring	32	65	.18	.19	.17	.83	.81	.50	.96	.82	-
7	Fall	27	107	.18	.24	.05	.95	.76	.46	.99	.79	-
	Winter	27	47	-	-	-	-	-	-	-	-	-
	Spring	27	52	.19	.19	.20	.80	.81	.50	.94	.81	-
8	Fall	26	106	.13	.25	.07	.93	.75	.36	.99	.77	-
	Winter	26	37	-	-	-	-	-	-	-	-	-
	Spring	28	42	-	-	-	-	-	-	-	-	-

*Note.* Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion). AUC = Area Under the ROC Curve.

Table 11

Resulting Statistics for Each Chosen Cut Score: Subgroup Non-English Language Learners

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	2989	.16	.20	.22	.78	.80	.41	.95	.79	.87
	Winter	32	1901	.17	.27	.16	.84	.73	.39	.95	.75	.87
	Spring	36	2867	.16	.21	.11	.89	.79	.44	.97	.80	.90
4	Fall	29	3467	.13	.24	.14	.86	.76	.34	.97	.77	.89
	Winter	31	2539	.13	.27	.13	.87	.73	.32	.97	.75	.88
	Spring	33	3373	.14	.20	.17	.83	.80	.39	.97	.80	.89
5	Fall	28	3681	.14	.21	.18	.82	.79	.37	.97	.79	.88
	Winter	32	2654	.14	.25	.13	.87	.75	.35	.97	.76	.89
	Spring	35	3524	.14	.14	.22	.78	.86	.47	.96	.85	.91
6	Fall	27	3623	.19	.17	.23	.77	.83	.52	.94	.82	.90
	Winter	28	2308	.19	.19	.18	.82	.81	.51	.95	.82	.91
	Spring	32	2515	.18	.16	.19	.81	.84	.52	.95	.83	.92
7	Fall	27	3441	.17	.22	.15	.85	.78	.44	.96	.79	.88
	Winter	27	2076	.16	.23	.11	.89	.77	.43	.97	.79	.90
	Spring	27	2237	.17	.15	.20	.80	.85	.52	.95	.84	.91
8	Fall	26	3434	.14	.25	.08	.92	.75	.38	.98	.78	.91
	Winter	26	2032	.14	.22	.10	.90	.78	.40	.98	.79	.91
	Spring	28	2138	.15	.25	.07	.93	.75	.40	.98	.77	.92

*Note.* Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion).

AUC = Area Under the ROC Curve.

Table 12  
 Resulting Statistics for Each Chosen Cut Score: Subgroup English Language Learners

Grd	Season	Meets Score	<i>n</i>	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positive Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
3	Fall	27	332	.34	.45	.19	.81	.55	.48	.85	.64	.72
	Winter	32	252	.33	.70	.06	.94	.30	.40	.91	.51	.79
	Spring	36	266	.35	.57	.05	.95	.43	.47	.94	.61	.81
4	Fall	29	275	.44	.60	.03	.98	.40	.56	.95	.65	.75
	Winter	31	215	.42	.65	.03	.97	.35	.52	.93	.61	.77
	Spring	33	229	.40	.50	.10	.90	.50	.55	.88	.66	.84
5	Fall	28	272	.46	.56	.06	.94	.44	.58	.89	.67	.72
	Winter	32	221	.47	.64	.04	.96	.36	.57	.91	.64	.74
	Spring	35	242	.40	.46	.11	.89	.54	.56	.88	.68	.79
6	Fall	27	233	.57	.41	.16	.84	.59	.73	.74	.73	.72
	Winter	28	180	.62	.57	.09	.91	.43	.72	.74	.73	.81
	Spring	32	172	.52	.43	.09	.91	.57	.69	.85	.74	.82
7	Fall	27	165	.52	.65	.06	.94	.35	.61	.85	.66	.72
	Winter	27	138	.58	.69	.05	.95	.31	.66	.82	.68	.68
	Spring	27	141	.55	.54	.10	.90	.46	.67	.78	.70	.74
8	Fall	26	166	.48	.56	.04	.96	.44	.62	.93	.69	.81
	Winter	26	130	.49	.58	.08	.92	.42	.61	.85	.67	.79
	Spring	28	125	.42	.60	.06	.94	.40	.54	.91	.63	.82

*Note.* Meeting cut scores chosen from full sample analysis. Statistics calculated only when seasonal sample size included 50 or more students. Receiver Operating Characteristics (ROC) analysis conducted only when sample size exceeded 50 students across seasons (listwise deletion).

AUC = Area Under the ROC Curve.



Full Sample

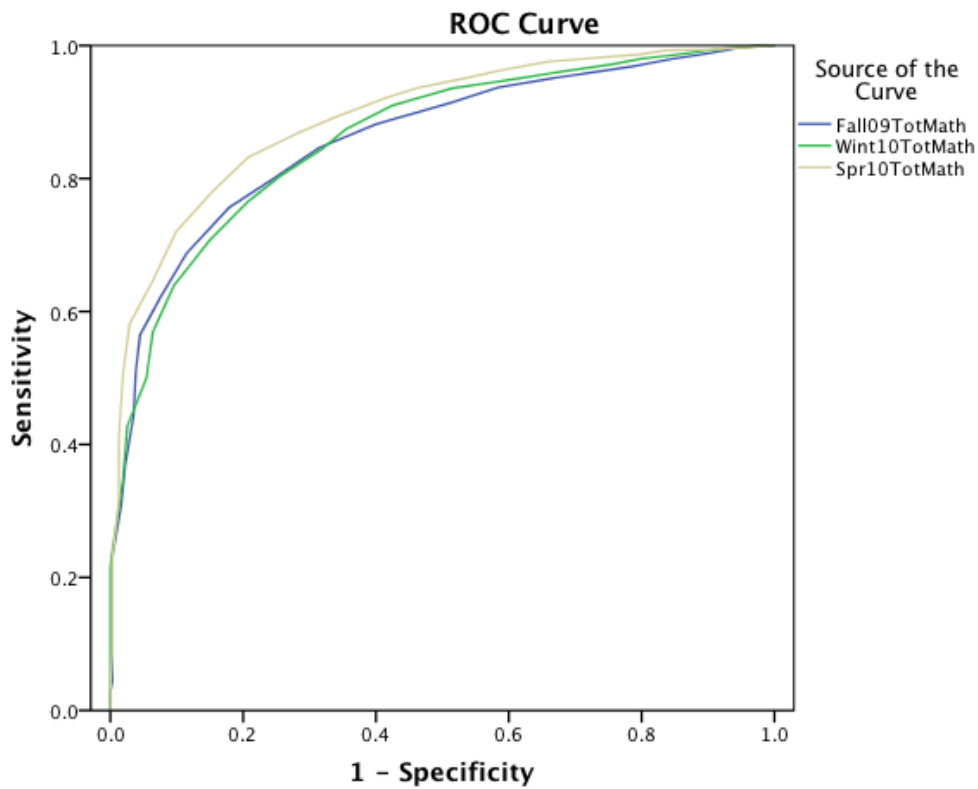
Grade 3

Case Processing Summary

PLC	Valid N (listwise)
Positive <sup>a</sup>	1400
Negative	313
Missing	2813

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.



Diagonal segments are produced by ties.

**Area Under the Curve**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.860	.010	.000	.839	.880
Wint10TotMath	.862	.010	.000	.842	.883
Spr10TotMath	.893	.009	.000	.875	.910

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

**Grade 3**  
**Fall Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
10	0.000	1
11.5	0.006	1
12.5	0.010	1
13.5	0.022	1
14.5	0.035	0.999
15.5	0.058	0.996
16.5	0.073	0.993
17.5	0.102	0.988
18.5	0.153	0.98
19.5	0.214	0.969
20.5	0.326	0.952
21.5	0.415	0.937
22.5	0.489	0.914
23.5	0.601	0.881
24.5	0.687	0.846
25.5	0.754	0.8
<b>26.5</b>	<b>0.821</b>	<b>0.756</b>
27.5	0.885	0.688
28.5	0.923	0.624
29.5	0.955	0.565
30.5	0.962	0.511
31.5	0.965	0.444
32.5	0.978	0.369
33.5	0.984	0.306
34.5	0.997	0.233
35.5	0.997	0.182
36.5	0.997	0.15
37.5	0.997	0.109
38.5	0.997	0.074
39.5	0.997	0.045
40.5	1	0.028
41.5	1	0.021
42.5	1	0.011
43.5	1	0.002
44.5	1	0.001
46	1	0

**FallCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	454	613	1067
	Meets or exceeds	123	2131	2254
Total		577	2744	3321

**Grade 3**  
**Winter Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
11	0	1
12.5	0.003	1
13.5	0.006	1
14.5	0.013	1
15.5	0.026	0.999
16.5	0.035	0.998
17.5	0.058	0.997
18.5	0.077	0.996
19.5	0.105	0.992
20.5	0.134	0.988
21.5	0.201	0.98
22.5	0.243	0.972
23.5	0.326	0.96
24.5	0.393	0.949
25.5	0.486	0.936
26.5	0.575	0.91
27.5	0.645	0.874
28.5	0.681	0.845
29.5	0.744	0.804
30.5	0.792	0.766
<b>31.5</b>	<b>0.85</b>	<b>0.708</b>
32.5	0.904	0.639
33.5	0.936	0.569
34.5	0.946	0.5
35.5	0.974	0.428
36.5	0.981	0.349
37.5	0.99	0.284
38.5	1	0.217
39.5	1	0.156
40.5	1	0.113
41.5	1	0.078
42.5	1	0.045
43.5	1	0.024
44.5	1	0.009
46	1	0

**WintCut \* PLC Crosstabulation**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	352	548	900
	Meets or exceeds	59	1194	1253
Total		411	1742	2153

**Grade 3**  
**Spring Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
12	0	1
14.5	0.003	1
16.5	0.01	1
17.5	0.013	0.999
18.5	0.019	0.999
19.5	0.035	0.997
20.5	0.058	0.996
21.5	0.096	0.994
22.5	0.112	0.994
23.5	0.163	0.993
24.5	0.204	0.986
25.5	0.272	0.981
26.5	0.342	0.976
27.5	0.409	0.964
28.5	0.47	0.95
29.5	0.537	0.936
30.5	0.585	0.921
31.5	0.658	0.894
32.5	0.716	0.869
33.5	0.792	0.832
34.5	0.847	0.78
<b>35.5</b>	<b>0.901</b>	<b>0.72</b>
36.5	0.936	0.646
37.5	0.971	0.581
38.5	0.981	0.507
39.5	0.987	0.41
40.5	0.987	0.318
41.5	0.997	0.228
42.5	0.997	0.151
43.5	0.997	0.088
44.5	1	0.031
46	1	0

**SprCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	491	614	1105
	Meets or exceeds	57	1971	2028
Total		548	2585	3133



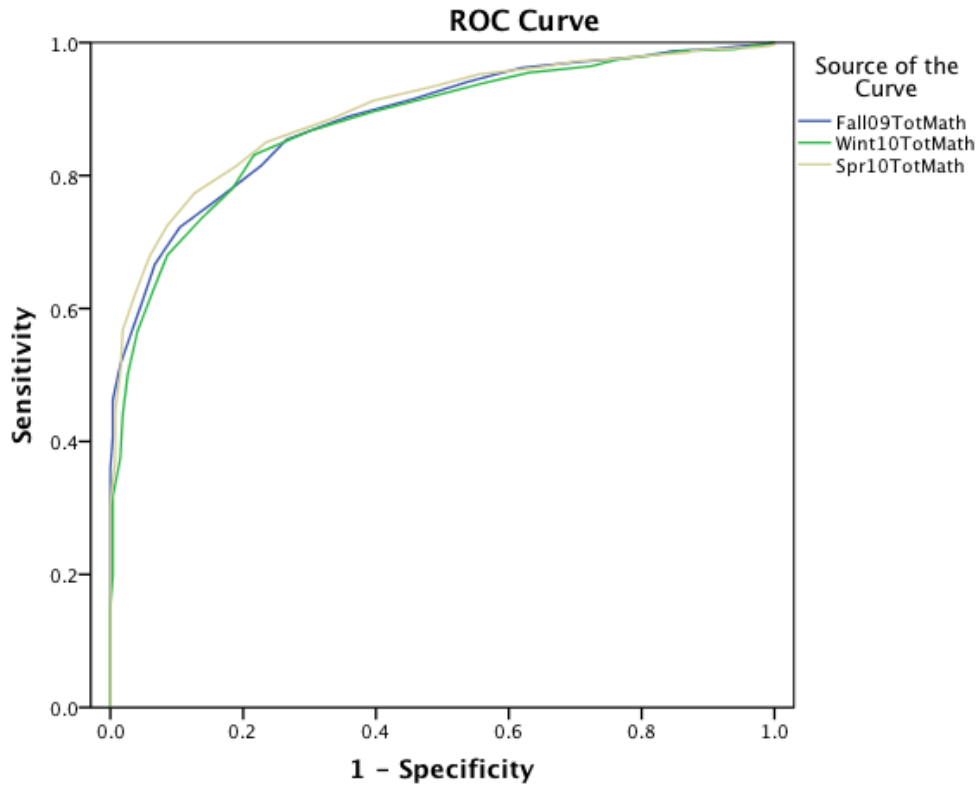
**Grade 4**

**Case Processing Summary**

PLC	Valid N (listwise)
Positive <sup>a</sup>	1771
Negative	268
Missing	2374

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.



Diagonal segments are produced by ties.

**Area Under the Curve**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.886	.009	.000	.869	.903
Wint10TotMath	.878	.010	.000	.859	.897
Spr10TotMath	.895	.008	.000	.878	.911

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5

**Grade 4**  
**Fall Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
7	0	1
9.5	0	0.999
11.5	0.004	0.998
12.5	0.007	0.998
13.5	0.007	0.998
14.5	0.015	0.998
15.5	0.022	0.998
16.5	0.056	0.997
17.5	0.093	0.994
18.5	0.153	0.99
19.5	0.205	0.981
20.5	0.291	0.974
21.5	0.381	0.966
22.5	0.463	0.942
23.5	0.545	0.917
24.5	0.642	0.887
25.5	0.735	0.852
26.5	0.772	0.813
27.5	0.836	0.754
<b>28.5</b>	<b>0.896</b>	<b>0.703</b>
29.5	0.933	0.641
30.5	0.951	0.579
31.5	0.97	0.515
32.5	0.985	0.468
33.5	0.996	0.408
34.5	0.996	0.348
35.5	1	0.303
36.5	1	0.259
37.5	1	0.214
38.5	1	0.164
39.5	1	0.112
40.5	1	0.082
41.5	1	0.048
42.5	1	0.025
43.5	1	0.015
44.5	1	0.004
46	1	0

**FallCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	491	822	1313
	Meets or exceeds	66	2364	2430
Total		557	3186	3743

**Grade 4**  
**Winter Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
11	0	1
12.5	0.004	1
13.5	0.004	0.999
14.5	0.004	0.998
15.5	0.007	0.997
16.5	0.015	0.996
17.5	0.034	0.994
18.5	0.06	0.99
19.5	0.142	0.988
20.5	0.175	0.982
21.5	0.235	0.973
22.5	0.276	0.962
23.5	0.369	0.952
24.5	0.44	0.936
25.5	0.511	0.915
26.5	0.604	0.889
27.5	0.698	0.853
28.5	0.784	0.811
29.5	0.817	0.752
<b>30.5</b>	<b>0.862</b>	<b>0.707</b>
31.5	0.914	0.643
32.5	0.937	0.574
33.5	0.959	0.512
34.5	0.974	0.439
35.5	0.981	0.38
36.5	0.985	0.309
37.5	0.996	0.252
38.5	0.996	0.197
39.5	0.996	0.146
40.5	1	0.099
41.5	1	0.054
42.5	1	0.034
43.5	1	0.013
44.5	1	0.003
46	1	0

**WintCut \* PLC Crosstabulation**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	373	680	1053
	Meets or exceeds	45	1657	1702
Total		418	2337	2755

**Grade 4**  
**Spring Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
12	0	1
14	0	0.998
15.5	0.007	0.995
16.5	0.022	0.994
17.5	0.037	0.993
18.5	0.052	0.993
19.5	0.082	0.991
20.5	0.123	0.989
21.5	0.131	0.986
22.5	0.172	0.984
23.5	0.231	0.977
24.5	0.299	0.973
25.5	0.354	0.966
26.5	0.444	0.956
27.5	0.507	0.938
28.5	0.604	0.911
29.5	0.668	0.878
30.5	0.765	0.836
31.5	0.81	0.797
<b>32.5</b>	<b>0.873</b>	<b>0.749</b>
33.5	0.914	0.693
34.5	0.94	0.644
35.5	0.963	0.579
36.5	0.981	0.511
37.5	0.985	0.442
38.5	0.993	0.382
39.5	0.993	0.308
40.5	1	0.233
41.5	1	0.173
42.5	1	0.114
43.5	1	0.07
44.5	1	0.021
46	1	0

**SprCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	465	659	1124
	Meets or exceeds	87	2391	2478
Total		552	3050	3602



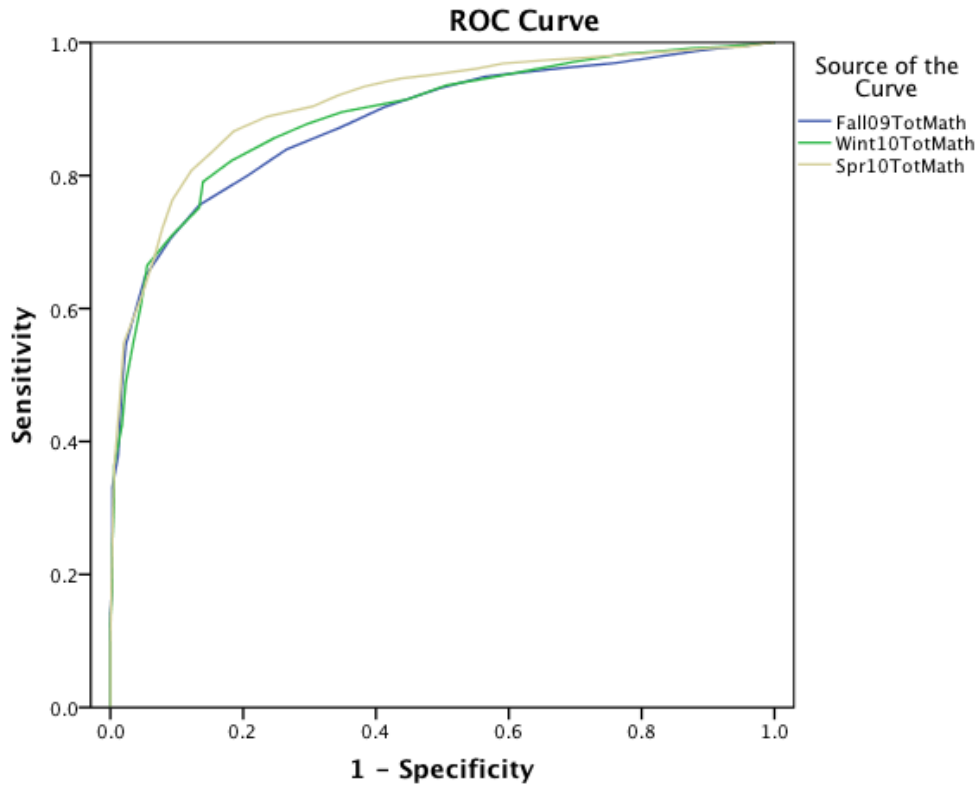
**Grade 5**

**Case Processing Summary**

PLD	Valid N (listwise)
Positive <sup>a</sup>	1992
Negative	344
Missing	2153

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.



Diagonal segments are produced by ties.

**Area Under the Curve**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.882	.008	.000	.866	.898
Wint10TotMath	.890	.008	.000	.874	.906
Spr10TotMath	.909	.008	.000	.894	.924

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5

**Grade 5**  
**Fall Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
11	0	1
12.5	0.003	0.999
13.5	0.012	0.999
14.5	0.029	0.998
15.5	0.041	0.995
16.5	0.067	0.995
17.5	0.11	0.99
18.5	0.172	0.979
19.5	0.238	0.97
20.5	0.323	0.962
21.5	0.436	0.949
22.5	0.506	0.928
23.5	0.587	0.898
24.5	0.651	0.863
25.5	0.735	0.827
26.5	0.794	0.782
<b>27.5</b>	<b>0.866</b>	<b>0.733</b>
28.5	0.91	0.674
29.5	0.948	0.613
30.5	0.962	0.559
31.5	0.977	0.503
32.5	0.983	0.43
33.5	0.985	0.374
34.5	0.988	0.323
35.5	0.997	0.276
36.5	0.997	0.238
37.5	0.997	0.184
38.5	0.997	0.146
39.5	1	0.102
40.5	1	0.071
41.5	1	0.044
42.5	1	0.022
43.5	1	0.01
44.5	1	0.001
46	1	0

**FallCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	525	766	1291
	Meets or exceeds	97	2565	2662
Total		622	3331	3953

**Grade 5**  
**Winter Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
12	0	1
13.5	0.006	1
14.5	0.012	0.999
15.5	0.023	0.997
16.5	0.047	0.995
17.5	0.076	0.993
18.5	0.125	0.99
19.5	0.177	0.983
20.5	0.23	0.979
21.5	0.302	0.965
22.5	0.358	0.954
23.5	0.43	0.943
24.5	0.494	0.93
25.5	0.552	0.904
26.5	0.651	0.882
27.5	0.706	0.86
28.5	0.753	0.838
29.5	0.817	0.798
30.5	0.86	0.763
<b>31.5</b>	<b>0.866</b>	<b>0.719</b>
32.5	0.907	0.674
33.5	0.945	0.624
34.5	0.953	0.564
35.5	0.965	0.501
36.5	0.977	0.43
37.5	0.983	0.365
38.5	0.994	0.302
39.5	0.994	0.251
40.5	0.997	0.191
41.5	0.997	0.142
42.5	1	0.087
43.5	1	0.044
44.5	1	0.019
46	1	0

**WintCut \* PLC Crosstabulation**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	410	659	1069
	Meets or exceeds	52	1754	1806
Total		462	2413	2875

**Grade 5  
Spring Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
6	0	1
9.5	0.003	1
12.5	0.003	0.999
13.5	0.012	0.999
14.5	0.017	0.999
15.5	0.023	0.997
16.5	0.035	0.994
17.5	0.047	0.992
18.5	0.07	0.992
19.5	0.096	0.991
20.5	0.134	0.988
21.5	0.172	0.984
22.5	0.235	0.98
23.5	0.297	0.977
24.5	0.34	0.973
25.5	0.41	0.969
26.5	0.451	0.959
27.5	0.517	0.95
28.5	0.564	0.943
29.5	0.616	0.931
30.5	0.657	0.914
31.5	0.695	0.894
32.5	0.765	0.875
33.5	0.814	0.85
<b>34.5</b>	<b>0.846</b>	<b>0.815</b>
35.5	0.878	0.78
36.5	0.907	0.727
37.5	0.922	0.677
38.5	0.933	0.636
39.5	0.953	0.564
40.5	0.98	0.491
41.5	0.985	0.415
42.5	0.994	0.309
43.5	0.997	0.187
44.5	1	0.067
46	1	0

**SprCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	462	486	948
	Meets or exceeds	119	2699	2818
Total		581	3185	3766



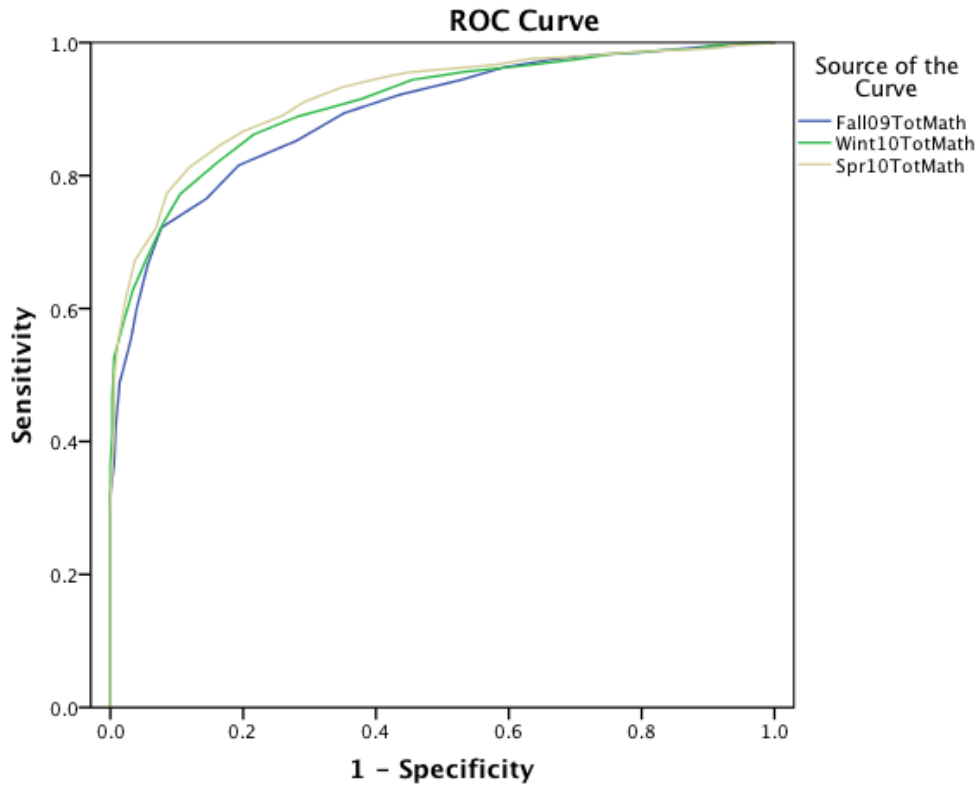
**Grade 6**

**Case Processing Summary**

PLD	Valid N (listwise)
Positive <sup>a</sup>	1462
Negative	352
Missing	2641

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.



Diagonal segments are produced by ties.

**Area Under the Curve**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.893	.008	.000	.877	.909
Wint10TotMath	.908	.007	.000	.893	.922
Spr10TotMath	.918	.007	.000	.904	.932

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5

**Grade 6**  
**Fall Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
10	0	1
11.5	0.006	1
12.5	0.011	1
13.5	0.028	1
14.5	0.05	1
15.5	0.067	0.999
16.5	0.111	0.998
17.5	0.153	0.997
18.5	0.208	0.996
19.5	0.267	0.996
20.5	0.339	0.991
21.5	0.419	0.981
22.5	0.483	0.959
23.5	0.572	0.938
24.5	0.656	0.902
25.5	0.725	0.857
<b>26.5</b>	<b>0.811</b>	<b>0.808</b>
27.5	0.858	0.75
28.5	0.925	0.694
29.5	0.944	0.63
30.5	0.961	0.553
31.5	0.969	0.501
32.5	0.986	0.444
33.5	0.992	0.372
34.5	0.994	0.311
35.5	1	0.262
36.5	1	0.208
37.5	1	0.167
38.5	1	0.141
39.5	1	0.11
40.5	1	0.079
41.5	1	0.055
42.5	1	0.031
43.5	1	0.022
44.5	1	0.008
46	1	0

**FallCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	656	535	1191
	Meets or exceeds	183	2483	2666
Total		839	3018	3857

**Grade 6**  
**Winter Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
7	0	1
9.5	0.003	1
11.5	0.011	1
12.5	0.014	0.999
13.5	0.036	0.999
14.5	0.05	0.999
15.5	0.078	0.999
16.5	0.111	0.999
17.5	0.131	0.998
18.5	0.194	0.995
19.5	0.261	0.989
20.5	0.314	0.984
21.5	0.386	0.974
22.5	0.478	0.963
23.5	0.556	0.95
24.5	0.631	0.915
25.5	0.725	0.883
26.5	0.789	0.855
<b>27.5</b>	<b>0.844</b>	<b>0.805</b>
28.5	0.897	0.749
29.5	0.922	0.688
30.5	0.944	0.63
31.5	0.967	0.56
32.5	0.981	0.509
33.5	0.994	0.441
34.5	0.997	0.366
35.5	0.997	0.31
36.5	1	0.266
37.5	1	0.223
38.5	1	0.176
39.5	1	0.134
40.5	1	0.092
41.5	1	0.066
42.5	1	0.031
43.5	1	0.017
44.5	1	0.005
46	1	0

**WintCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	458	387	845
	Meets or exceeds	87	1556	1643
Total		545	1943	2488

**Grade 6**  
**Spring Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
10	0	1
11.5	0.008	1
12.5	0.017	1
13.5	0.039	1
14.5	0.069	1
15.5	0.078	1
16.5	0.097	0.997
17.5	0.139	0.996
18.5	0.183	0.995
19.5	0.233	0.994
20.5	0.281	0.99
21.5	0.344	0.986
22.5	0.392	0.98
23.5	0.456	0.971
24.5	0.503	0.967
25.5	0.581	0.959
26.5	0.622	0.944
27.5	0.675	0.927
28.5	0.728	0.903
29.5	0.767	0.875
30.5	0.806	0.85
<b>31.5</b>	<b>0.856</b>	<b>0.817</b>
32.5	0.892	0.776
33.5	0.928	0.722
34.5	0.939	0.665
35.5	0.969	0.607
36.5	0.983	0.536
37.5	0.992	0.467
38.5	0.994	0.401
39.5	0.994	0.322
40.5	1	0.259
41.5	1	0.199
42.5	1	0.124
43.5	1	0.077
44.5	1	0.036
46	1	0

**SprCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	454	374	828
	Meets or exceeds	98	1762	1860
Total		552	2136	2688



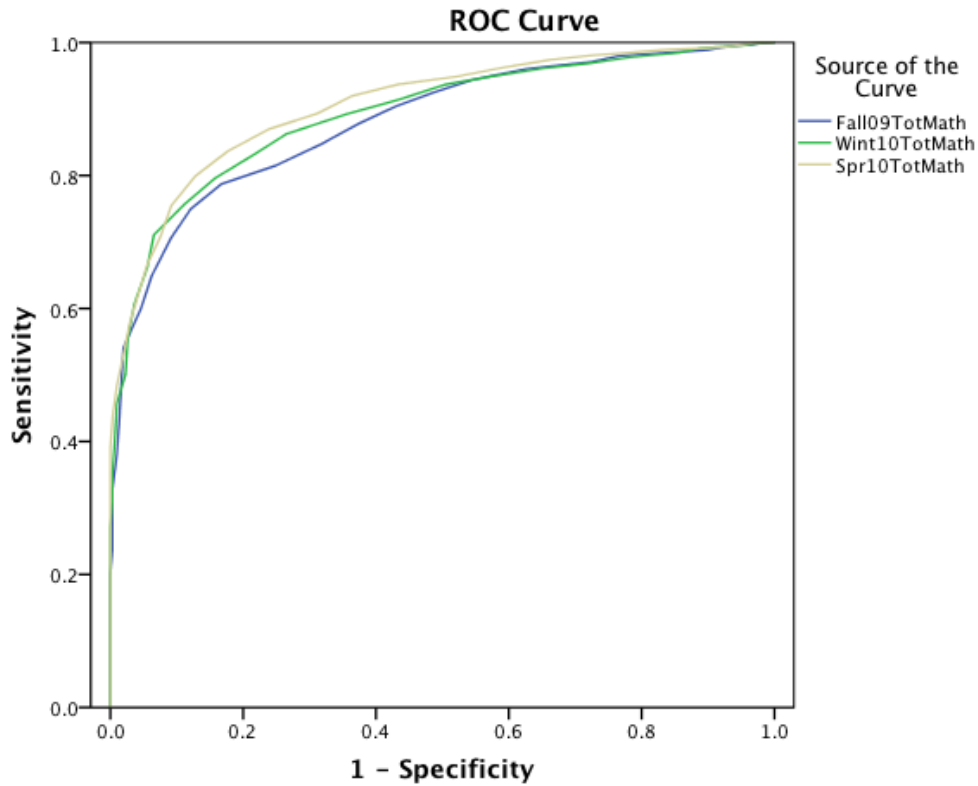
**Grade 7**

**Case Processing Summary**

PLD	Valid N (listwise)
Positive <sup>a</sup>	1508
Negative	305
Missing	2452

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.



Diagonal segments are produced by ties.

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**Area Under the Curve**


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Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.881	.009	.000	.863	.899
Wint10TotMath	.892	.008	.000	.876	.909
Spr10TotMath	.906	.008	.000	.890	.921

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

**Grade 7**  
**Fall Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
7	0	1
8.5	0.003	1
9.5	0.01	1
10.5	0.023	1
11.5	0.036	0.999
12.5	0.058	0.999
13.5	0.081	0.998
14.5	0.104	0.993
15.5	0.166	0.991
16.5	0.237	0.99
17.5	0.279	0.982
18.5	0.377	0.972
19.5	0.458	0.953
20.5	0.516	0.932
21.5	0.571	0.908
22.5	0.627	0.883
23.5	0.682	0.852
24.5	0.753	0.814
25.5	0.834	0.784
<b>26.5</b>	<b>0.88</b>	<b>0.738</b>
27.5	0.909	0.696
28.5	0.938	0.639
29.5	0.955	0.582
30.5	0.981	0.524
31.5	0.984	0.466
32.5	0.987	0.404
33.5	0.99	0.347
34.5	0.997	0.293
35.5	0.997	0.244
36.5	0.997	0.2
37.5	1	0.163
38.5	1	0.137
39.5	1	0.104
40.5	1	0.08
41.5	1	0.059
42.5	1	0.037
43.5	1	0.023
44.5	1	0.006
46	1	0

**FallCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	567	676	1243
	Meets or exceeds	90	2274	2364
Total		657	2950	3607

**Grade 7**  
**Winter Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
7	0	1
8.5	0.003	1
9.5	0.006	1
10.5	0.013	1
11.5	0.026	0.999
12.5	0.045	0.999
13.5	0.091	0.997
14.5	0.117	0.996
15.5	0.149	0.991
16.5	0.221	0.985
17.5	0.282	0.98
18.5	0.351	0.974
19.5	0.425	0.963
20.5	0.497	0.953
21.5	0.565	0.928
22.5	0.649	0.898
23.5	0.737	0.865
24.5	0.789	0.832
25.5	0.844	0.79
<b>26.5</b>	<b>0.89</b>	<b>0.746</b>
27.5	0.935	0.697
28.5	0.945	0.653
29.5	0.964	0.593
30.5	0.974	0.539
31.5	0.977	0.483
32.5	0.99	0.438
33.5	0.994	0.375
34.5	0.997	0.326
35.5	0.997	0.279
36.5	1	0.239
37.5	1	0.195
38.5	1	0.161
39.5	1	0.123
40.5	1	0.09
41.5	1	0.069
42.5	1	0.033
43.5	1	0.014
45	1	0

**WintCut \* PLC Crosstabulation**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	379	442	821
	Meets or exceeds	43	1351	1394
Total		422	1793	2215

**Grade 7**  
**Spring Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
8	0	1
9.5	0.003	1
10.5	0.013	1
11.5	0.019	1
12.5	0.032	1
13.5	0.045	0.998
14.5	0.071	0.997
15.5	0.11	0.997
16.5	0.169	0.996
17.5	0.227	0.994
18.5	0.282	0.99
19.5	0.344	0.984
20.5	0.412	0.972
21.5	0.484	0.954
22.5	0.571	0.941
23.5	0.64	0.923
24.5	0.692	0.893
25.5	0.763	0.863
<b>26.5</b>	<b>0.825</b>	<b>0.828</b>
27.5	0.873	0.784
28.5	0.909	0.73
29.5	0.925	0.68
30.5	0.945	0.632
31.5	0.958	0.58
32.5	0.971	0.532
33.5	0.981	0.477
34.5	0.99	0.435
35.5	0.997	0.385
36.5	1	0.345
37.5	1	0.296
38.5	1	0.254
39.5	1	0.213
40.5	1	0.173
41.5	1	0.138
42.5	1	0.089
43.5	1	0.051
44.5	1	0.016
46	1	0

**SprCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	371	315	686
	Meets or exceeds	85	1607	1692
Total		456	1922	2378



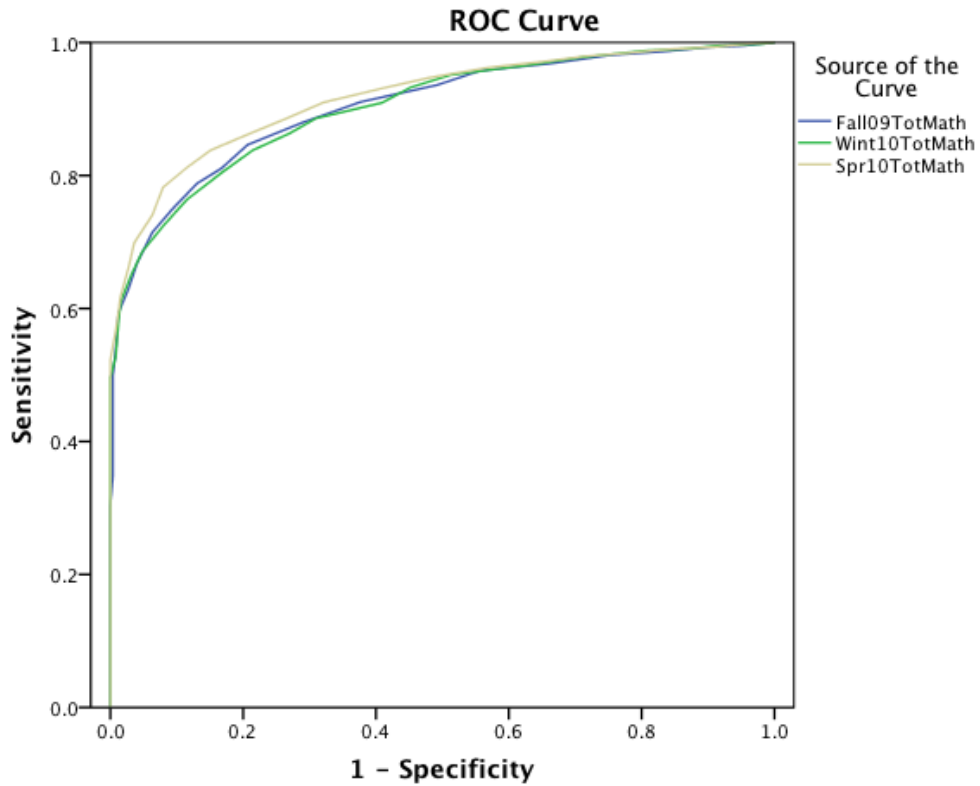
**Grade 8**

**Case Processing Summary**

PLD	Valid N (listwise)
Positive <sup>a</sup>	1456
Negative	252
Missing	2702

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.



Diagonal segments are produced by ties.

**Area Under the Curve**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.904	.008	.000	.888	.920
Wint10TotMath	.903	.008	.000	.887	.919
Spr10TotMath	.917	.007	.000	.903	.932

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

**Grade 8  
Fall Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
10	0	1
11.5	0.004	1
12.5	0.015	0.999
13.5	0.046	0.997
14.5	0.093	0.995
15.5	0.151	0.989
16.5	0.247	0.982
17.5	0.336	0.967
18.5	0.444	0.957
19.5	0.506	0.934
20.5	0.618	0.906
21.5	0.703	0.873
22.5	0.784	0.838
23.5	0.822	0.796
24.5	0.857	0.77
<b>25.5</b>	<b>0.896</b>	<b>0.724</b>
26.5	0.923	0.691
27.5	0.946	0.635
28.5	0.958	0.602
29.5	0.973	0.562
30.5	0.985	0.495
31.5	0.988	0.454
32.5	0.988	0.406
33.5	0.992	0.358
34.5	0.996	0.31
35.5	1	0.261
36.5	1	0.217
37.5	1	0.168
38.5	1	0.131
39.5	1	0.104
40.5	1	0.088
41.5	1	0.064
42.5	1	0.044
43.5	1	0.017
44.5	1	0.012
46	1	0

**FallCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	529	777	1306
	Meets or exceeds	43	2251	2294
Total		572	3028	3600

**Grade 8**  
**Winter Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
9	0	1
10.5	0.012	1
11.5	0.015	0.998
12.5	0.042	0.998
13.5	0.093	0.996
14.5	0.131	0.991
15.5	0.197	0.987
16.5	0.29	0.976
17.5	0.367	0.962
18.5	0.483	0.947
19.5	0.544	0.928
20.5	0.587	0.899
21.5	0.683	0.871
22.5	0.722	0.845
23.5	0.776	0.815
24.5	0.822	0.774
<b>25.5</b>	<b>0.876</b>	<b>0.722</b>
26.5	0.915	0.675
27.5	0.946	0.628
28.5	0.961	0.593
29.5	0.977	0.546
30.5	0.981	0.501
31.5	0.988	0.449
32.5	0.996	0.415
33.5	0.996	0.369
34.5	0.996	0.339
35.5	0.996	0.301
36.5	0.996	0.269
37.5	1	0.226
38.5	1	0.192
39.5	1	0.16
40.5	1	0.127
41.5	1	0.094
42.5	1	0.067
43.5	1	0.036
44.5	1	0.017
46	1	0

**WintCut \* PLC Crosstabulation**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	323	428	751
	Meets or exceeds	35	1376	1411
Total		358	1804	2162

**Grade 8  
Spring Benchmark – Full Sample**

Cut Score	Sensitivity	Specificity
9	0	1
10.5	0.004	1
11.5	0.027	1
12.5	0.046	0.998
13.5	0.081	0.995
14.5	0.151	0.992
15.5	0.216	0.985
16.5	0.278	0.979
17.5	0.344	0.969
18.5	0.425	0.959
19.5	0.517	0.941
20.5	0.583	0.923
21.5	0.672	0.898
22.5	0.726	0.873
23.5	0.78	0.845
24.5	0.842	0.816
25.5	0.876	0.786
26.5	0.911	0.755
<b>27.5</b>	<b>0.927</b>	<b>0.707</b>
28.5	0.954	0.66
29.5	0.961	0.616
30.5	0.973	0.566
31.5	0.981	0.502
32.5	0.992	0.453
33.5	0.996	0.415
34.5	0.996	0.354
35.5	0.996	0.321
36.5	0.996	0.276
37.5	1	0.236
38.5	1	0.193
39.5	1	0.163
40.5	1	0.138
41.5	1	0.093
42.5	1	0.063
43.5	1	0.031
44.5	1	0.009
46	1	0

**SprCut \* PLC Crosstabulation**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	351	503	854
	Meets or exceeds	26	1383	1409
Total		377	1886	2263



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**Student Subgroup: American Indian/Alaskan Native**

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**Grade 3****Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	10
Negative	2
Missing	31

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. EthnicCd = American Indian/Alaskan Native

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	5	4	9
	Meets or exceeds	1	22	23
Total		6	26	32

a. EthnicCd = American/Indian

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	3	6	9
	Meets or exceeds	0	6	6
Total		3	12	15

a. EthnicCd = American/Indian

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	6	6	12
	Meets or exceeds	0	23	23
Total		6	29	35

a. EthnicCd = American/Indian

**Grade 4****Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	18
Negative	2
Missing	29

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. EthnicCd = American Indian/Alaskan Native

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	4	8	12
	Meets or exceeds	0	31	31
Total		4	39	43

a. EthnicCd = American/Indian

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	4	5	9
	Meets or exceeds	0	14	14
Total		4	19	23

a. EthnicCd = American/Indian

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	7	9	16
	Meets or exceeds	0	30	30
Total		7	39	46

a. EthnicCd = American/Indian

**Grade 5****Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	26
Negative	4
Missing	24

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. EthnicCd = American Indian/Alaskan Native

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	9	10	19
	Meets or exceeds	1	30	31
Total		10	40	50

a. EthnicCd = American/Indian

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	5	6	11
	Meets or exceeds	0	21	21
Total		5	27	32

a. EthnicCd = American/Indian

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	6	9	15
	Meets or exceeds	3	32	35
Total		9	41	50

a. EthnicCd = American Indian/Alaskan Native

**Grade 6****Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	18
Negative	5
Missing	55

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. EthnicCd = American Indian/Alaskan Native

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	10	14	24
	Meets or exceeds	5	41	46
Total		15	55	70

a. EthnicCd = American Indian/Alaskan Native

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	5	4	9
	Meets or exceeds	2	24	26
Total		7	28	35

a. EthnicCd = American Indian/Alaskan Native

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	9	6	15
	Meets or exceeds	3	30	33
Total		12	36	48

a. EthnicCd = American/Indian



**Grade 7****Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	10
Negative	7
Missing	35

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. EthnicCd = American Indian/Alaskan Native

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	13	9	22
	Meets or exceeds	1	22	23
Total		14	31	45

a. EthnicCd = American Indian/Alaskan Native

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	8	1	9
	Meets or exceeds	1	14	15
Total		9	15	24

a. EthnicCd = American Indian/Alaskan Native

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	8	6	14
	Meets or exceeds	1	10	11
Total		9	16	25

a. EthnicCd = American Indian/Alaskan Native

**Grade 8****Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	17
Negative	5
Missing	28

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. EthnicCd = American Indian/Alaskan Native

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	7	14	21
	Meets or exceeds	1	16	17
Total		8	30	38

a. EthnicCd = American/Indian

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	7	7	14
	Meets or exceeds	0	14	14
Total		7	21	28

a. EthnicCd = American/Indian

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	6	10	16
	Meets or exceeds	1	13	14
Total		7	23	30

a. EthnicCd = American/Indian

Student Subgroup: Asian/Pacific Islander

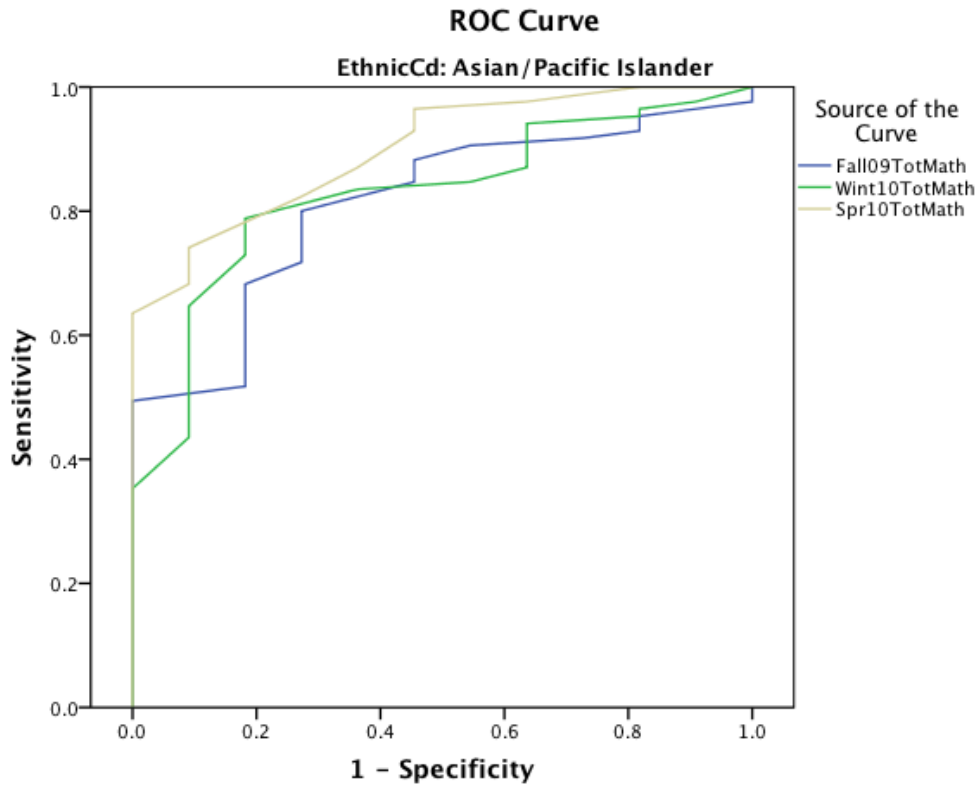
Grade 3

Case Processing Summary<sup>c</sup>

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	85
Negative	11
Missing	209

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Asian/Pacific Islander



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.812	.057	.001	.700	.923
Wint10TotMath	.827	.056	.000	.717	.937
Spr10TotMath	.899	.039	.000	.822	.976

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Asian/Pacific Islander

**Grade 3  
Fall Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
18	0	1
19.5	0	0.976
20.5	0.182	0.953
21.5	0.182	0.929
22.5	0.273	0.918
23.5	0.455	0.906
24.5	0.545	0.882
25.5	0.545	0.847
<b>26.5</b>	<b>0.727</b>	<b>0.8</b>
27.5	0.727	0.718
28.5	0.818	0.682
29.5	0.818	0.612
30.5	0.818	0.576
31.5	0.818	0.518
32.5	1	0.494
33.5	1	0.412
34.5	1	0.329
35.5	1	0.294
36.5	1	0.271
37.5	1	0.212
38.5	1	0.165
39.5	1	0.141
40.5	1	0.082
41.5	1	0.071
42.5	1	0.024
44	1	0.012
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	15	23	38
	Meets or exceeds	10	134	144
Total		25	157	182

a. EthnicCd = Asian/Pacific Islander

**Grade 3  
Winter Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
21	0	1
22.5	0.091	0.976
23.5	0.182	0.965
24.5	0.182	0.953
25.5	0.364	0.941
26.5	0.364	0.906
27.5	0.364	0.871
28.5	0.455	0.847
29.5	0.636	0.835
30.5	0.818	0.788
<b>31.5</b>	<b>0.818</b>	<b>0.729</b>
32.5	0.909	0.647
33.5	0.909	0.576
34.5	0.909	0.482
35.5	0.909	0.435
36.5	1	0.353
37.5	1	0.329
38.5	1	0.294
39.5	1	0.235
40.5	1	0.2
41.5	1	0.176
42.5	1	0.106
43.5	1	0.071
44.5	1	0.035
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	12	27	39
	Meets or exceeds	5	77	82
Total		17	104	121

a. EthnicCd = Asian/Pacific Islander



**Grade 3  
Spring Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
18	0	1
23	0.091	1
28	0.182	1
29.5	0.273	0.988
30.5	0.364	0.976
31.5	0.545	0.965
32.5	0.545	0.929
33.5	0.636	0.871
34.5	0.727	0.824
<b>35.5</b>	<b>0.909</b>	<b>0.741</b>
36.5	0.909	0.682
37.5	1	0.635
38.5	1	0.518
39.5	1	0.424
40.5	1	0.353
41.5	1	0.259
42.5	1	0.176
43.5	1	0.118
44.5	1	0.047
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	16	26	42
	Meets or exceeds	1	112	113
Total		17	138	155

a. EthnicCd = Asian/Pacific Islander

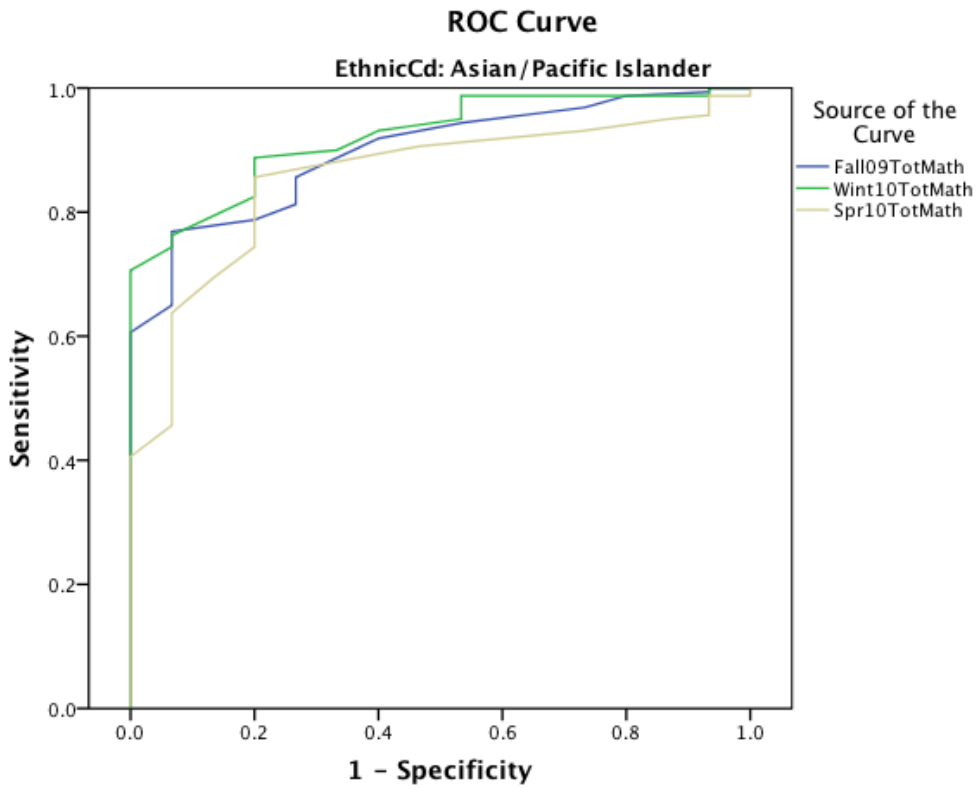
**Grade 4**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	160
Negative	15
Missing	144

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Asian/Pacific Islander



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.897	.031	.000	.836	.958
Wint10TotMath	.921	.026	.000	.871	.972
Spr10TotMath	.856	.041	.000	.775	.937

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Asian/Pacific Islander

**Grade 4  
Fall Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
15	0	1
18	0.067	1
20.5	0.067	0.994
21.5	0.2	0.988
22.5	0.267	0.969
23.5	0.467	0.944
24.5	0.6	0.919
25.5	0.733	0.856
26.5	0.733	0.813
27.5	0.8	0.788
28.5	0.933	0.769
29.5	0.933	0.719
<b>30.5</b>	<b>0.933</b>	<b>0.656</b>
31.5	0.933	0.65
32.5	1	0.606
33.5	1	0.55
34.5	1	0.494
35.5	1	0.438
36.5	1	0.381
37.5	1	0.313
38.5	1	0.275
39.5	1	0.238
40.5	1	0.175
41.5	1	0.081
42.5	1	0.056
43.5	1	0.038
44.5	1	0.006
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	24	50	74
	Meets or exceeds	1	198	199
Total		25	248	273

a. EthnicCd = Asian/Pacific Islander

**Grade 4**  
**Winter Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
15	0	1
16.5	0.067	1
17.5	0.067	0.994
19	0.067	0.988
20.5	0.133	0.988
21.5	0.2	0.988
22.5	0.267	0.988
23.5	0.467	0.988
24.5	0.467	0.975
25.5	0.467	0.95
26.5	0.6	0.931
27.5	0.667	0.9
<b>28.5</b>	<b>0.8</b>	<b>0.888</b>
29.5	0.8	0.825
30.5	0.933	0.763
31.5	0.933	0.744
32.5	1	0.706
33.5	1	0.663
34.5	1	0.594
35.5	1	0.531
36.5	1	0.475
37.5	1	0.431
38.5	1	0.388
39.5	1	0.325
40.5	1	0.238
41.5	1	0.188
42.5	1	0.125
43.5	1	0.094
44.5	1	0.038
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	19	51	70
	Meets or exceeds	1	163	164
Total		20	214	234

a. EthnicCd = Asian/Pacific Islander

**Grade 4  
Spring Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
12	0	1
15.5	0	0.988
19.5	0.067	0.988
23	0.067	0.981
25.5	0.067	0.956
26.5	0.133	0.95
27.5	0.267	0.931
28.5	0.533	0.906
29.5	0.667	0.881
30.5	0.8	0.856
31.5	0.8	0.838
<b>32.5</b>	<b>0.8</b>	<b>0.8</b>
33.5	0.8	0.744
34.5	0.867	0.694
35.5	0.933	0.638
36.5	0.933	0.594
37.5	0.933	0.556
38.5	0.933	0.525
39.5	0.933	0.456
40.5	1	0.406
41.5	1	0.344
42.5	1	0.275
43.5	1	0.169
44.5	1	0.056
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	16	43	59
	Meets or exceeds	8	191	199
Total		24	234	258

a. EthnicCd = Asian/Pacific Islander

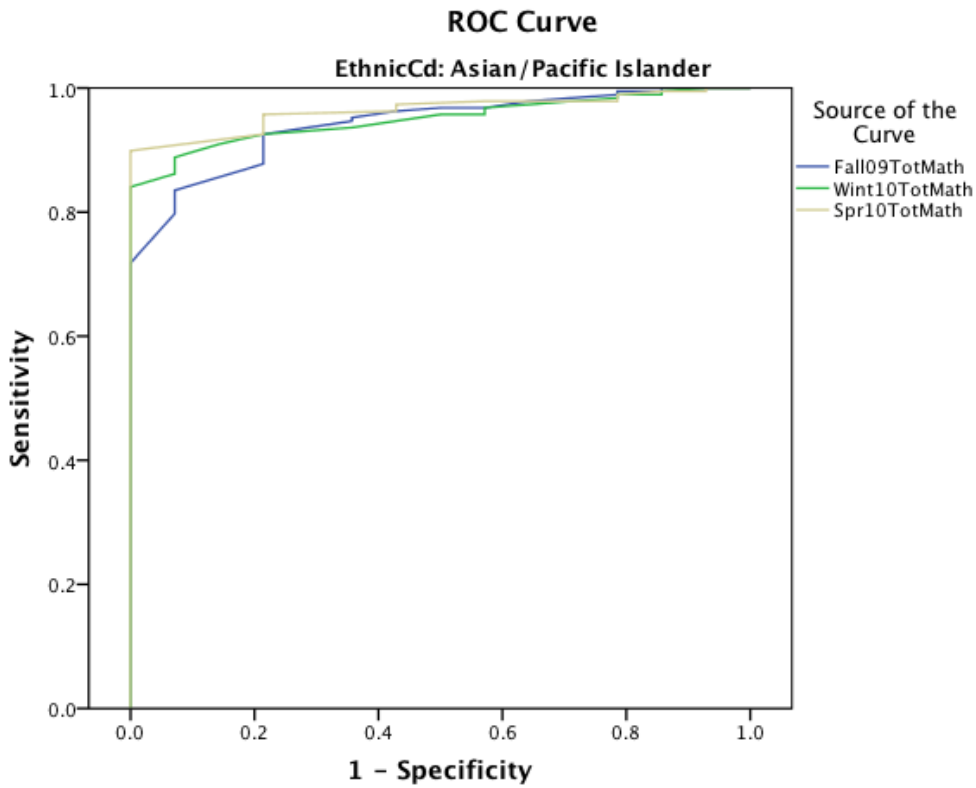
**Grade 5**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	188
Negative	14
Missing	116

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Asian/Pacific Islander



Diagonal segments are produced by ties.



**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.941	.021	.000	.899	.983
Wint10TotMath	.950	.016	.000	.918	.981
Spr10TotMath	.964	.013	.000	.938	.989

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Asian/Pacific Islander

**Grade 5**  
**Fall Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.071	1
14.5	0.143	1
15.5	0.143	0.995
16.5	0.214	0.995
17.5	0.214	0.989
18.5	0.357	0.979
19.5	0.429	0.968
20.5	0.5	0.968
21.5	0.571	0.963
22.5	0.643	0.952
23.5	0.643	0.947
24.5	0.714	0.936
25.5	0.786	0.926
26.5	0.786	0.91
<b>27.5</b>	<b>0.786</b>	<b>0.878</b>
28.5	0.929	0.835
29.5	0.929	0.798
30.5	1	0.718
31.5	1	0.676
32.5	1	0.628
33.5	1	0.574
34.5	1	0.537
35.5	1	0.5
36.5	1	0.457
37.5	1	0.378
38.5	1	0.324
39.5	1	0.239
40.5	1	0.186
41.5	1	0.117
42.5	1	0.085
43.5	1	0.064
44.5	1	0.021
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	20	35	55
	Meets or exceeds	4	229	233
Total		24	264	288

a. EthnicCd = Asian/Pacific Islander

**Grade 5  
Winter Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
13	0	1
14.5	0.071	1
16.5	0.143	0.995
18.5	0.143	0.989
19.5	0.214	0.989
20.5	0.214	0.984
21.5	0.357	0.973
22.5	0.429	0.968
23.5	0.429	0.957
25	0.5	0.957
26.5	0.643	0.936
27.5	0.786	0.926
28.5	0.857	0.91
29.5	0.929	0.888
30.5	0.929	0.862
<b>31.5</b>	<b>1</b>	<b>0.84</b>
32.5	1	0.819
33.5	1	0.793
34.5	1	0.734
35.5	1	0.697
36.5	1	0.644
37.5	1	0.585
38.5	1	0.505
39.5	1	0.441
40.5	1	0.383
41.5	1	0.293
42.5	1	0.202
43.5	1	0.138
44.5	1	0.069
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	17	38	55
	Meets or exceeds	0	188	188
Total		17	226	243

a. EthnicCd = Asian/Pacific Islander

**Grade 5  
Spring Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
13	0	1
15.5	0.071	1
18	0.071	0.995
19.5	0.143	0.995
21.5	0.214	0.989
23.5	0.214	0.984
24.5	0.214	0.979
26	0.357	0.979
28	0.429	0.979
29.5	0.571	0.973
30.5	0.571	0.968
31.5	0.571	0.963
32.5	0.786	0.957
33.5	0.786	0.947
<b>34.5</b>	<b>0.786</b>	<b>0.941</b>
35.5	0.786	0.926
36.5	1	0.899
37.5	1	0.888
38.5	1	0.84
39.5	1	0.777
40.5	1	0.729
41.5	1	0.654
42.5	1	0.532
43.5	1	0.356
44.5	1	0.186
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	18	12	30
	Meets or exceeds	7	238	245
Total		25	250	275

a. EthnicCd = Asian/Pacific Islander

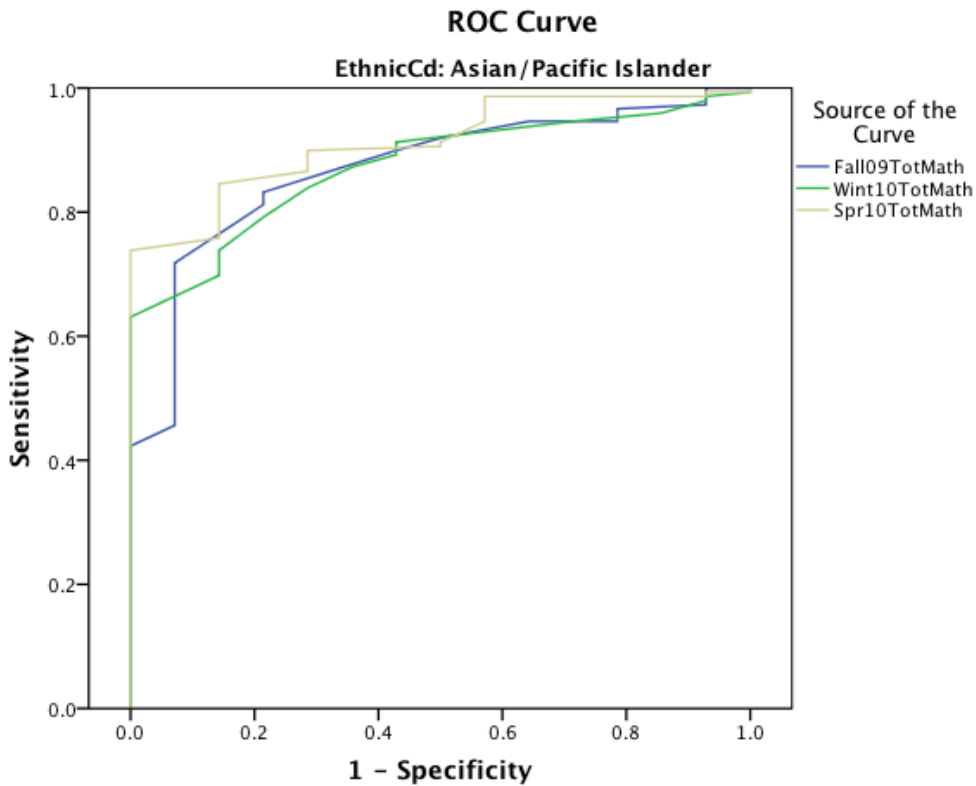
**Grade 6**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	149
Negative	14
Missing	141

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Asian/Pacific Islander



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.870	.041	.000	.788	.951
Wint10TotMath	.874	.034	.000	.807	.941
Spr10TotMath	.912	.027	.000	.859	.966

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Asian/Pacific Islander

**Grade 6  
Fall Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
15	0	1
16.5	0.071	1
18.5	0.071	0.993
20.5	0.071	0.987
21.5	0.071	0.973
22.5	0.214	0.966
23.5	0.214	0.946
24.5	0.357	0.946
25.5	0.5	0.919
<b>26.5</b>	<b>0.571</b>	<b>0.899</b>
27.5	0.786	0.832
28.5	0.786	0.812
29.5	0.857	0.765
30.5	0.929	0.718
31.5	0.929	0.691
32.5	0.929	0.597
33.5	0.929	0.53
34.5	0.929	0.456
35.5	1	0.423
36.5	1	0.376
37.5	1	0.309
38.5	1	0.295
39.5	1	0.215
40.5	1	0.174
41.5	1	0.121
42.5	1	0.101
43.5	1	0.074
44.5	1	0.04
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	15	22	37
	Meets or exceeds	8	226	234
Total		23	248	271

a. EthnicCd = Asian/Pacific Islander



**Grade 6  
Winter Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
18	0	1
19.5	0	0.993
21	0.071	0.987
22.5	0.071	0.98
23.5	0.143	0.96
24.5	0.286	0.946
25.5	0.571	0.913
26.5	0.571	0.893
<b>27.5</b>	<b>0.643</b>	<b>0.872</b>
28.5	0.714	0.839
29.5	0.786	0.792
30.5	0.857	0.738
31.5	0.857	0.698
32.5	0.929	0.664
33.5	1	0.631
34.5	1	0.604
35.5	1	0.55
36.5	1	0.503
37.5	1	0.456
38.5	1	0.376
39.5	1	0.309
40.5	1	0.255
41.5	1	0.195
42.5	1	0.121
43.5	1	0.06
44.5	1	0.027
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	10	27	37
	Meets or exceeds	6	162	168
Total		16	189	205

a. EthnicCd = Asian/Pacific Islander

**Grade 6  
Spring Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
12	0	1
15.5	0	0.993
18.5	0.071	0.993
20	0.071	0.987
22.5	0.143	0.987
24.5	0.286	0.987
25.5	0.429	0.987
26.5	0.429	0.966
27.5	0.429	0.946
28.5	0.5	0.913
29.5	0.5	0.906
30.5	0.714	0.899
<b>31.5</b>	<b>0.714</b>	<b>0.866</b>
32.5	0.857	0.846
33.5	0.857	0.792
34.5	0.857	0.758
35.5	1	0.738
36.5	1	0.725
37.5	1	0.691
38.5	1	0.624
39.5	1	0.557
40.5	1	0.47
41.5	1	0.403
42.5	1	0.309
43.5	1	0.228
44.5	1	0.101
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	14	29	43
	Meets or exceeds	5	173	178
Total		19	202	221

a. EthnicCd = Asian/Pacific Islander

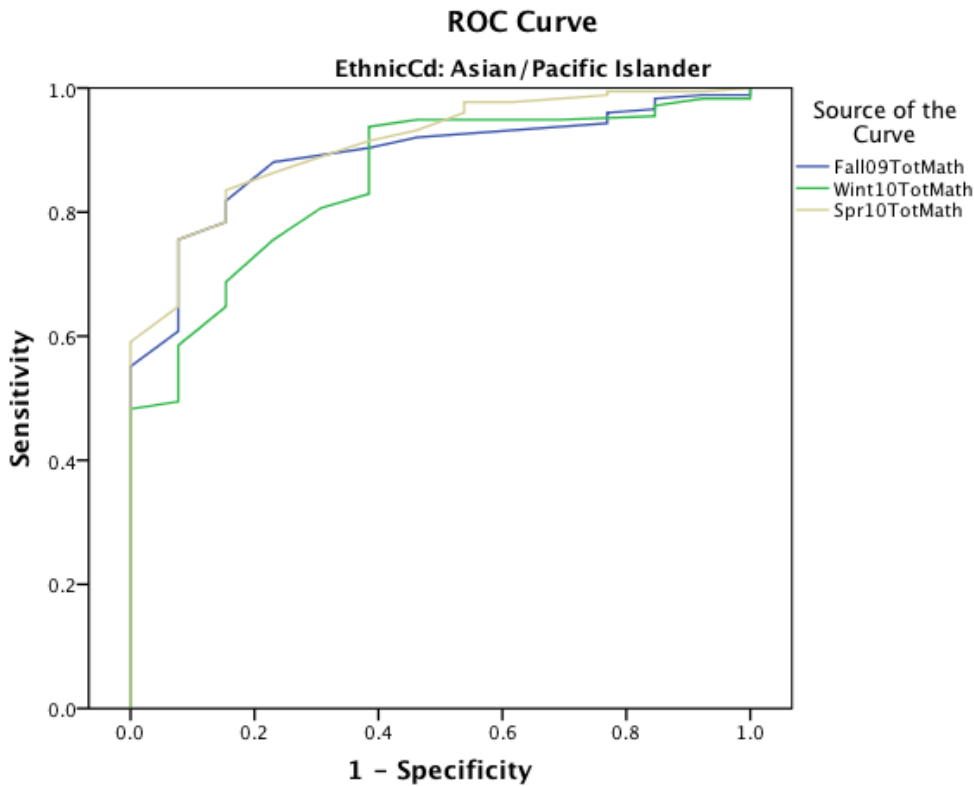
**Grade 7**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	176
Negative	13
Missing	129

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Asian/Pacific Islander



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.889	.034	.000	.823	.956
Wint10TotMath	.852	.046	.000	.763	.942
Spr10TotMath	.909	.033	.000	.845	.973

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Asian/Pacific Islander

**Grade 7**  
**Fall Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0	0.989
14.5	0.077	0.989
15.5	0.154	0.983
16.5	0.154	0.977
17.5	0.154	0.966
18.5	0.231	0.96
19.5	0.231	0.943
20.5	0.308	0.938
21.5	0.538	0.92
22.5	0.615	0.903
23.5	0.769	0.881
24.5	0.846	0.818
25.5	0.846	0.784
<b>26.5</b>	<b>0.923</b>	<b>0.756</b>
27.5	0.923	0.71
28.5	0.923	0.642
29.5	0.923	0.608
30.5	1	0.551
31.5	1	0.517
32.5	1	0.466
33.5	1	0.443
34.5	1	0.392
35.5	1	0.369
36.5	1	0.33
37.5	1	0.307
38.5	1	0.261
39.5	1	0.227
40.5	1	0.165
41.5	1	0.125
42.5	1	0.08
43.5	1	0.063
44.5	1	0.028
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	20	55	75
	Meets or exceeds	3	209	212
Total		23	264	287

a. EthnicCd = Asian/Pacific Islander

**Grade 7**  
**Winter Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0	0.994
12.5	0	0.983
14	0.077	0.983
15.5	0.154	0.972
16.5	0.154	0.966
17.5	0.154	0.955
18.5	0.308	0.949
19.5	0.538	0.949
20.5	0.615	0.938
21.5	0.615	0.909
22.5	0.615	0.875
23.5	0.615	0.869
24.5	0.615	0.83
25.5	0.692	0.807
<b>26.5</b>	<b>0.769</b>	<b>0.756</b>
27.5	0.846	0.688
28.5	0.846	0.648
29.5	0.923	0.585
30.5	0.923	0.54
31.5	0.923	0.494
32.5	1	0.483
33.5	1	0.449
34.5	1	0.432
35.5	1	0.398
36.5	1	0.358
37.5	1	0.335
38.5	1	0.301
39.5	1	0.261
40.5	1	0.188
41.5	1	0.148
42.5	1	0.091
43.5	1	0.045
44.5	1	0.006
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	12	47	59
	Meets or exceeds	3	151	154
Total		15	198	213

a. EthnicCd = Asian/Pacific Islander



**Grade 7**  
**Spring Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
13	0	1
14.5	0.077	0.994
15.5	0.154	0.994
16.5	0.231	0.994
17.5	0.231	0.989
18.5	0.385	0.977
19.5	0.462	0.977
20.5	0.462	0.972
21.5	0.462	0.96
22.5	0.538	0.932
23.5	0.615	0.915
24.5	0.769	0.864
25.5	0.846	0.835
<b>26.5</b>	<b>0.846</b>	<b>0.807</b>
27.5	0.846	0.784
28.5	0.923	0.756
29.5	0.923	0.744
30.5	0.923	0.693
31.5	0.923	0.648
32.5	1	0.591
33.5	1	0.545
34.5	1	0.511
35.5	1	0.466
36.5	1	0.42
37.5	1	0.381
38.5	1	0.318
39.5	1	0.25
40.5	1	0.227
41.5	1	0.17
42.5	1	0.136
43.5	1	0.091
44.5	1	0.051
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	16	37	53
	Meets or exceeds	3	171	174
Total		19	208	227

a. EthnicCd = Asian/Pacific Islander

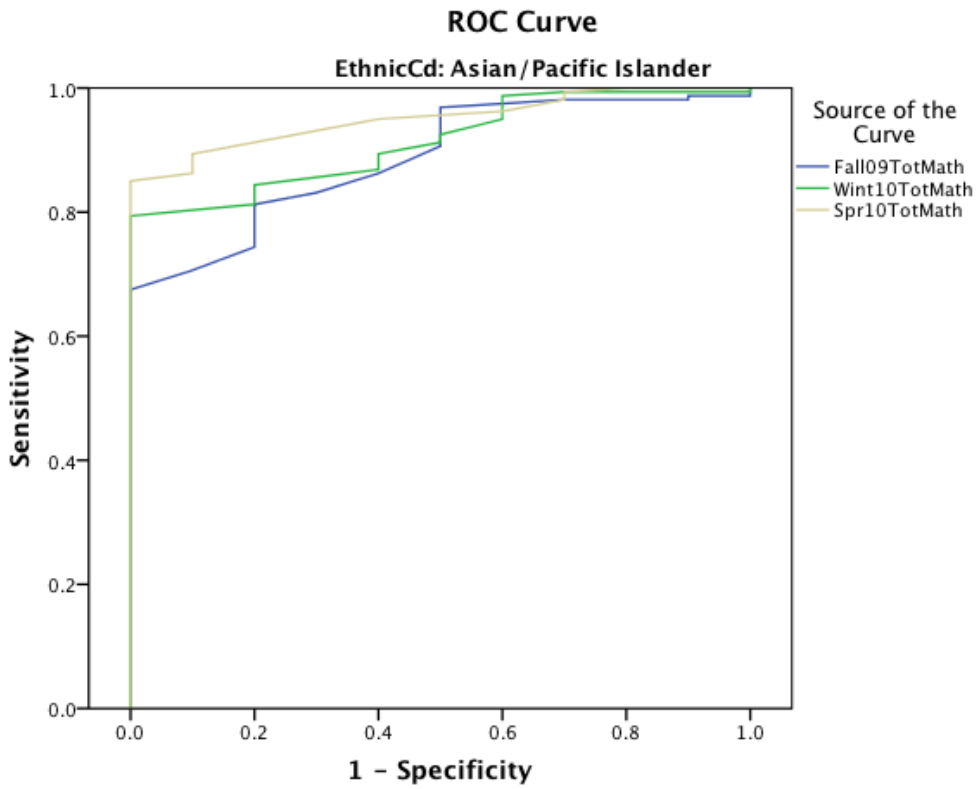
**Grade 8**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	160
Negative	10
Missing	129

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Asian/Pacific Islander



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.887	.038	.000	.812	.961
Wint10TotMath	.913	.029	.000	.857	.969
Spr10TotMath	.950	.019	.000	.913	.987

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Asian/Pacific Islander

**Grade 8**  
**Fall Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0	0.994
14.5	0	0.988
15.5	0.1	0.988
16.5	0.1	0.981
17.5	0.3	0.981
18.5	0.5	0.969
19.5	0.5	0.963
20.5	0.5	0.95
21.5	0.5	0.906
22.5	0.6	0.863
23.5	0.7	0.831
24.5	0.8	0.813
<b>25.5</b>	<b>0.8</b>	<b>0.794</b>
26.5	0.8	0.756
27.5	0.8	0.744
28.5	0.9	0.706
29.5	1	0.675
30.5	1	0.638
31.5	1	0.619
32.5	1	0.569
33.5	1	0.506
34.5	1	0.413
35.5	1	0.369
36.5	1	0.344
37.5	1	0.294
38.5	1	0.269
39.5	1	0.213
40.5	1	0.175
41.5	1	0.131
42.5	1	0.1
43.5	1	0.063
44.5	1	0.044
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	14	43	57
	Meets or exceeds	2	198	200
Total		16	241	257

a. EthnicCd = Asian/Pacific Islander

**Grade 8**  
**Winter Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
9	0	1
11	0	0.994
13.5	0.2	0.994
16	0.3	0.994
17.5	0.4	0.988
18.5	0.4	0.969
20	0.4	0.95
21.5	0.5	0.925
22.5	0.5	0.913
23.5	0.6	0.894
24.5	0.6	0.869
<b>25.5</b>	<b>0.8</b>	<b>0.844</b>
26.5	0.8	0.813
27.5	1	0.794
28.5	1	0.769
29.5	1	0.738
30.5	1	0.713
32	1	0.638
33.5	1	0.6
34.5	1	0.563
35.5	1	0.538
36.5	1	0.513
37.5	1	0.463
38.5	1	0.413
39.5	1	0.363
40.5	1	0.281
41.5	1	0.231
42.5	1	0.169
43.5	1	0.094
44.5	1	0.031
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	10	26	36
	Meets or exceeds	2	164	166
Total		12	190	202

a. EthnicCd = Asian/Pacific Islander



**Grade 8**  
**Spring Benchmark – Asian/Pacific Islander**

Cut score	Sensitivity	Specificity
10	0	1
12	0.1	1
14.5	0.2	1
17.5	0.3	0.994
19.5	0.3	0.981
20.5	0.4	0.963
21.5	0.6	0.95
22.5	0.7	0.931
23.5	0.8	0.913
24.5	0.9	0.894
25.5	0.9	0.863
26.5	1	0.85
<b>27.5</b>	<b>1</b>	<b>0.819</b>
28.5	1	0.763
29.5	1	0.738
30.5	1	0.719
31.5	1	0.675
32.5	1	0.638
33.5	1	0.588
34.5	1	0.55
35.5	1	0.519
36.5	1	0.469
37.5	1	0.375
38.5	1	0.325
39.5	1	0.288
40.5	1	0.256
41.5	1	0.206
42.5	1	0.113
43.5	1	0.063
44.5	1	0.013
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	13	31	44
	Meets or exceeds	0	159	159
Total		13	190	203

a. EthnicCd = Asian/Pacific Islander

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 Student Subgroup: Black
 

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## Grade 3

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 Case Processing Summary<sup>c</sup>


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PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	23
Negative	6
Missing	91

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Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- The positive actual state is Meets or exceeds.
- EthnicCd = Black

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	13	12	25
	Meets or exceeds	3	35	38
Total		16	47	63

a. EthnicCd = Black

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	7	7	14
	Meets or exceeds	3	18	21
Total		10	25	35

a. EthnicCd = Black

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	14	15	29
	Meets or exceeds	1	32	33
Total		15	47	62

a. EthnicCd = Black

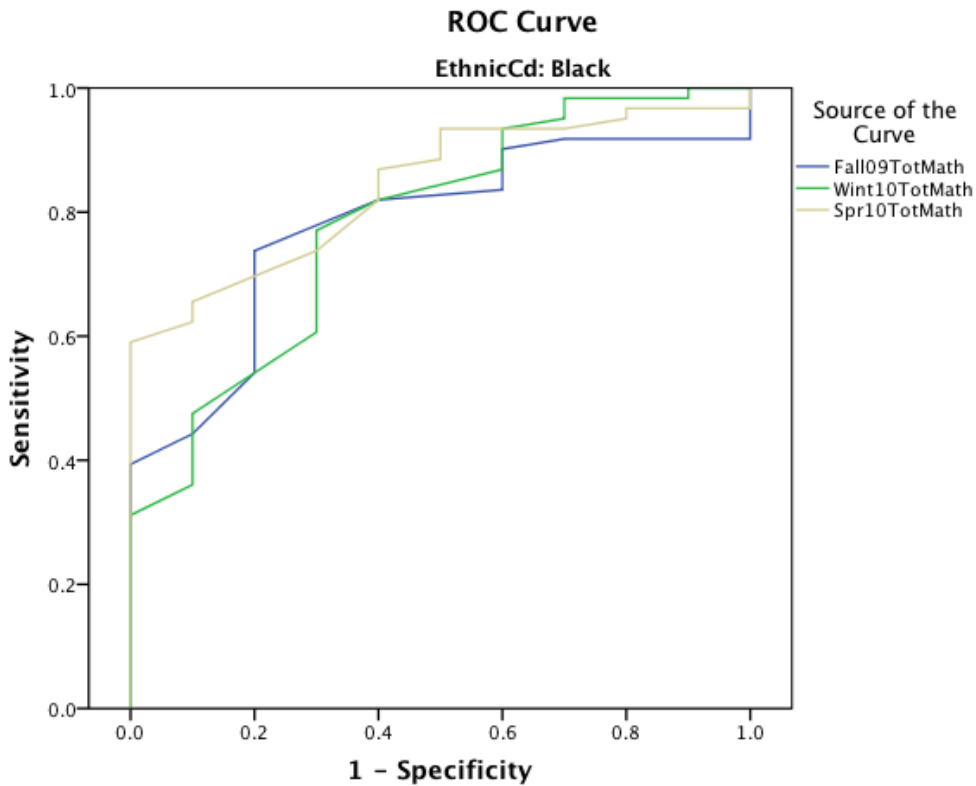
**Grade 4**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	61
Negative	10
Missing	60

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Black



**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.779	.067	.005	.648	.909
Wint10TotMath	.781	.076	.005	.632	.930
Spr10TotMath	.840	.053	.001	.737	.943

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- Under the nonparametric assumption
- Null hypothesis: true area = 0.5
- EthnicCd = Black

**Grade 4  
Fall Benchmark – Black**

Cut score	Sensitivity	Specificity
14	0	1
15.5	0	0.967
16.5	0	0.934
18.5	0	0.918
20.5	0.1	0.918
21.5	0.3	0.918
22.5	0.4	0.902
23.5	0.4	0.836
24.5	0.6	0.82
25.5	0.8	0.738
26.5	0.8	0.672
27.5	0.8	0.59
<b>28.5</b>	<b>0.8</b>	<b>0.557</b>
29.5	0.8	0.541
30.5	0.9	0.443
31.5	1	0.393
32.5	1	0.344
33.5	1	0.311
34.5	1	0.279
35.5	1	0.213
36.5	1	0.197
37.5	1	0.131
38.5	1	0.049
39.5	1	0.033
40.5	1	0.016
42	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	14	40	54
	Meets or exceeds	3	53	56
Total		17	93	110

a. EthnicCd = Black

**Grade 4  
Winter Benchmark – Black**

Cut score	Sensitivity	Specificity
16	0	1
17.5	0.1	1
18.5	0.1	0.984
19.5	0.2	0.984
21	0.3	0.984
22.5	0.3	0.967
23.5	0.3	0.951
24.5	0.4	0.934
25.5	0.4	0.902
26.5	0.4	0.869
27.5	0.6	0.82
28.5	0.7	0.77
29.5	0.7	0.738
<b>30.5</b>	<b>0.7</b>	<b>0.672</b>
31.5	0.7	0.607
32.5	0.8	0.541
33.5	0.9	0.475
34.5	0.9	0.361
35.5	1	0.311
36.5	1	0.295
37.5	1	0.213
38.5	1	0.18
39.5	1	0.148
40.5	1	0.082
41.5	1	0.066
42.5	1	0.049
43.5	1	0.016
45	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	8	24	32
	Meets or exceeds	4	44	48
Total		12	68	80

a. EthnicCd = Black



**Grade 4  
Spring Benchmark – Black**

Cut score	Sensitivity	Specificity
14	0	1
15.5	0	0.984
19.5	0	0.967
23.5	0.2	0.967
24.5	0.2	0.951
25.5	0.3	0.934
26.5	0.5	0.934
27.5	0.5	0.902
28.5	0.5	0.885
29.5	0.6	0.869
30.5	0.6	0.82
31.5	0.7	0.738
<b>32.5</b>	<b>0.9</b>	<b>0.656</b>
33.5	0.9	0.623
34.5	1	0.59
35.5	1	0.541
36.5	1	0.508
37.5	1	0.459
38.5	1	0.377
39.5	1	0.328
40.5	1	0.23
41.5	1	0.197
42.5	1	0.115
43.5	1	0.082
44.5	1	0.016
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	16	38	54
	Meets or exceeds	3	60	63
Total		19	98	117

a. EthnicCd = Black

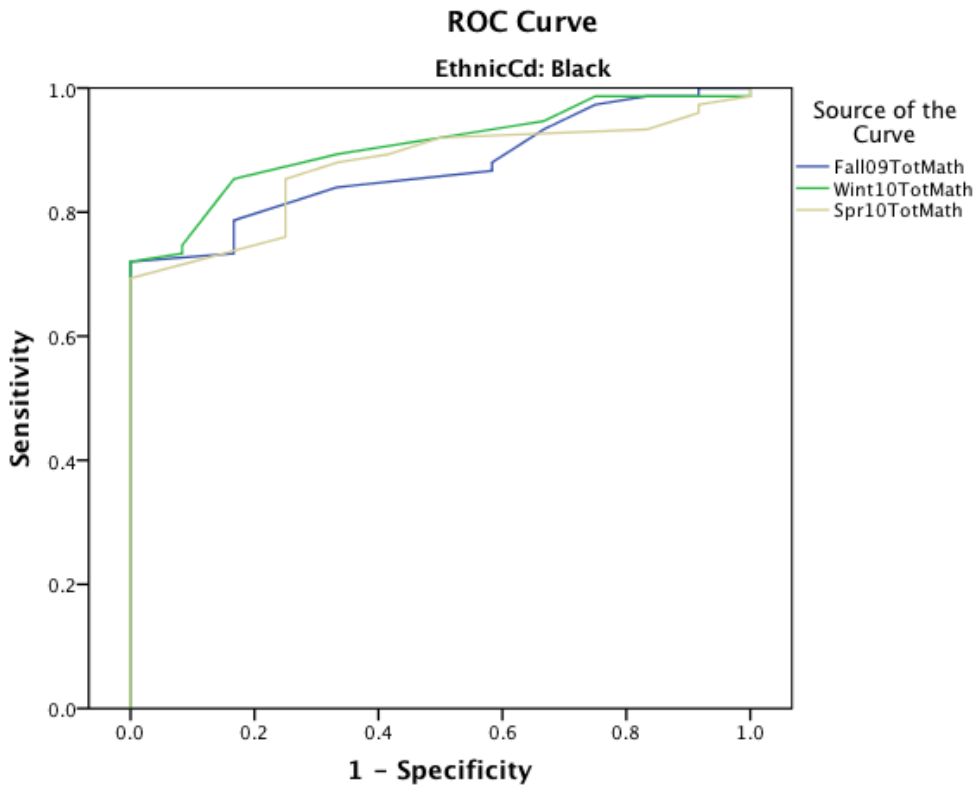
**Grade 5**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	75
Negative	12
Missing	62

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Black



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.872	.039	.000	.795	.949
Wint10TotMath	.907	.033	.000	.841	.972
Spr10TotMath	.873	.039	.000	.795	.950

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Black

**Grade 5  
Fall Benchmark – Black**

Cut score	Sensitivity	Specificity
13	0	1
15	0.083	1
16.5	0.083	0.987
17.5	0.167	0.987
18.5	0.25	0.973
19.5	0.333	0.933
20.5	0.417	0.88
21.5	0.417	0.867
22.5	0.667	0.84
23.5	0.833	0.787
24.5	0.833	0.733
25.5	1	0.72
26.5	1	0.653
<b>27.5</b>	<b>1</b>	<b>0.6</b>
28.5	1	0.547
30	1	0.427
31.5	1	0.4
32.5	1	0.293
34	1	0.253
35.5	1	0.2
36.5	1	0.16
37.5	1	0.107
38.5	1	0.053
39.5	1	0.027
41	1	0.013
43	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	27	41	68
	Meets or exceeds	2	59	61
Total		29	100	129

a. EthnicCd = Black

**Grade 5  
Winter Benchmark – Black**

Cut score	Sensitivity	Specificity
14	0	1
17	0	0.987
20	0.25	0.987
21.5	0.333	0.947
22.5	0.5	0.92
23.5	0.583	0.907
24.5	0.667	0.893
25.5	0.833	0.853
26.5	0.917	0.747
27.5	0.917	0.733
28.5	1	0.72
29.5	1	0.693
30.5	1	0.68
<b>31.5</b>	<b>1</b>	<b>0.627</b>
32.5	1	0.587
33.5	1	0.573
34.5	1	0.453
35.5	1	0.413
36.5	1	0.36
37.5	1	0.28
38.5	1	0.267
39.5	1	0.213
40.5	1	0.173
41.5	1	0.107
42.5	1	0.067
44	1	0.013
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	15	35	50
	Meets or exceeds	1	52	53
Total		16	87	103

a. EthnicCd = Black

**Grade 5  
Spring Benchmark – Black**

Cut score	Sensitivity	Specificity
16	0	1
18.5	0	0.987
20.5	0.083	0.973
21.5	0.083	0.96
23.5	0.167	0.933
26	0.5	0.92
27.5	0.583	0.893
29	0.667	0.88
30.5	0.75	0.853
31.5	0.75	0.84
32.5	0.75	0.813
33.5	0.75	0.8
<b>34.5</b>	<b>0.75</b>	<b>0.76</b>
35.5	1	0.693
36.5	1	0.667
37.5	1	0.64
38.5	1	0.56
39.5	1	0.547
40.5	1	0.493
41.5	1	0.36
42.5	1	0.267
43.5	1	0.173
44.5	1	0.04
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	22	23	45
	Meets or exceeds	7	79	86
Total		29	102	131

a. EthnicCd = Black

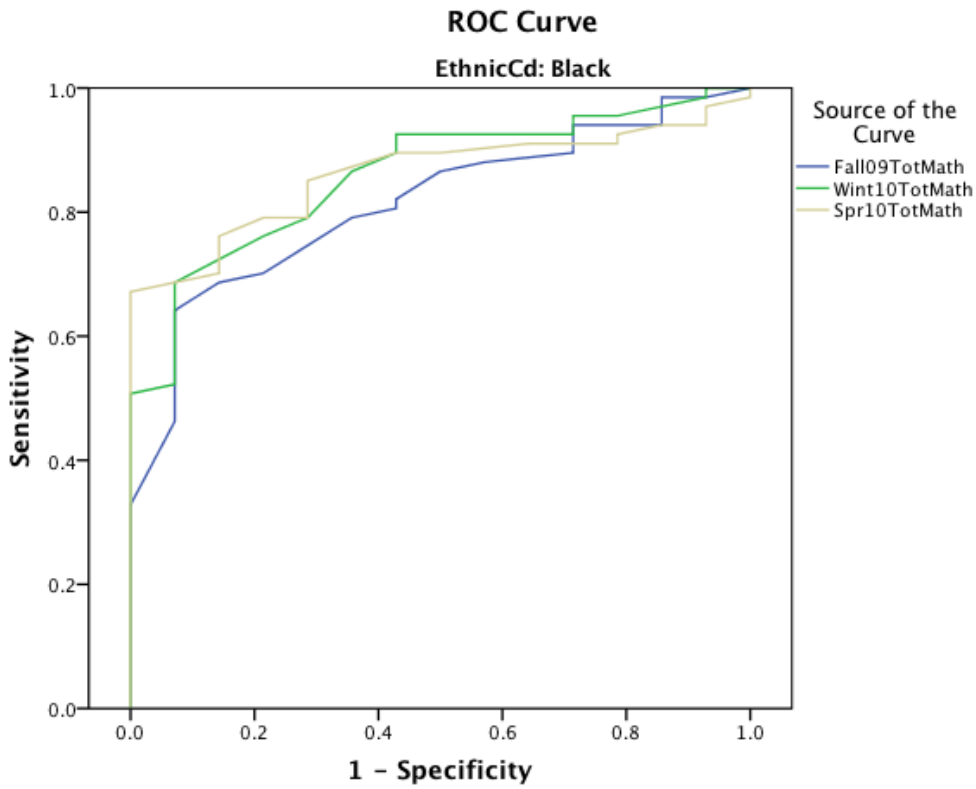
**Grade 6**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	67
Negative	14
Missing	67

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Black



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.814	.053	.000	.710	.918
Wint10TotMath	.860	.045	.000	.772	.949
Spr10TotMath	.861	.041	.000	.781	.942

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Black



**Grade 6**  
**Fall Benchmark – Black**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.071	0.985
13.5	0.143	0.985
14.5	0.143	0.97
15.5	0.143	0.955
16.5	0.143	0.94
17.5	0.286	0.94
18.5	0.286	0.896
20	0.429	0.881
21.5	0.5	0.866
22.5	0.571	0.821
23.5	0.571	0.806
24.5	0.643	0.791
25.5	0.786	0.701
<b>26.5</b>	<b>0.857</b>	<b>0.687</b>
27.5	0.929	0.642
28.5	0.929	0.627
29.5	0.929	0.612
30.5	0.929	0.522
31.5	0.929	0.463
32.5	1	0.328
33.5	1	0.284
34.5	1	0.224
35.5	1	0.194
36.5	1	0.149
37.5	1	0.119
38.5	1	0.09
40	1	0.045
42	1	0.03
43.5	1	0.015
45	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	23	31	54
	Meets or exceeds	6	67	73
Total		29	98	127

a. EthnicCd = Black

**Grade 6  
Winter Benchmark – Black**

Cut score	Sensitivity	Specificity
11	0	1
13.5	0.071	1
15.5	0.071	0.985
16.5	0.214	0.955
17.5	0.286	0.955
18.5	0.286	0.94
19.5	0.286	0.925
21	0.357	0.925
22.5	0.5	0.925
23.5	0.571	0.925
24.5	0.571	0.896
25.5	0.643	0.866
26.5	0.714	0.791
<b>27.5</b>	<b>0.786</b>	<b>0.761</b>
28.5	0.929	0.687
29.5	0.929	0.657
31	0.929	0.582
32.5	0.929	0.537
33.5	0.929	0.522
34.5	1	0.507
35.5	1	0.418
36.5	1	0.373
37.5	1	0.313
38.5	1	0.239
39.5	1	0.179
40.5	1	0.09
42	1	0.045
44	1	0.03
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	15	21	36
	Meets or exceeds	3	59	62
Total		18	80	98

a. EthnicCd = Black

**Grade 6**  
**Spring Benchmark – Black**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0	0.985
13.5	0.071	0.97
15.5	0.071	0.955
17.5	0.071	0.94
19	0.143	0.94
20.5	0.214	0.925
21.5	0.214	0.91
22.5	0.357	0.91
23.5	0.5	0.896
24.5	0.571	0.896
25.5	0.714	0.851
26.5	0.714	0.836
27.5	0.714	0.791
28.5	0.786	0.791
29.5	0.857	0.761
30.5	0.857	0.746
<b>31.5</b>	<b>0.857</b>	<b>0.701</b>
32.5	1	0.672
33.5	1	0.642
34.5	1	0.567
35.5	1	0.522
36.5	1	0.478
38	1	0.448
39.5	1	0.418
40.5	1	0.284
41.5	1	0.254
42.5	1	0.224
43.5	1	0.149
44.5	1	0.09
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	15	27	42
	Meets or exceeds	2	60	62
Total		17	87	104

a. EthnicCd = Black

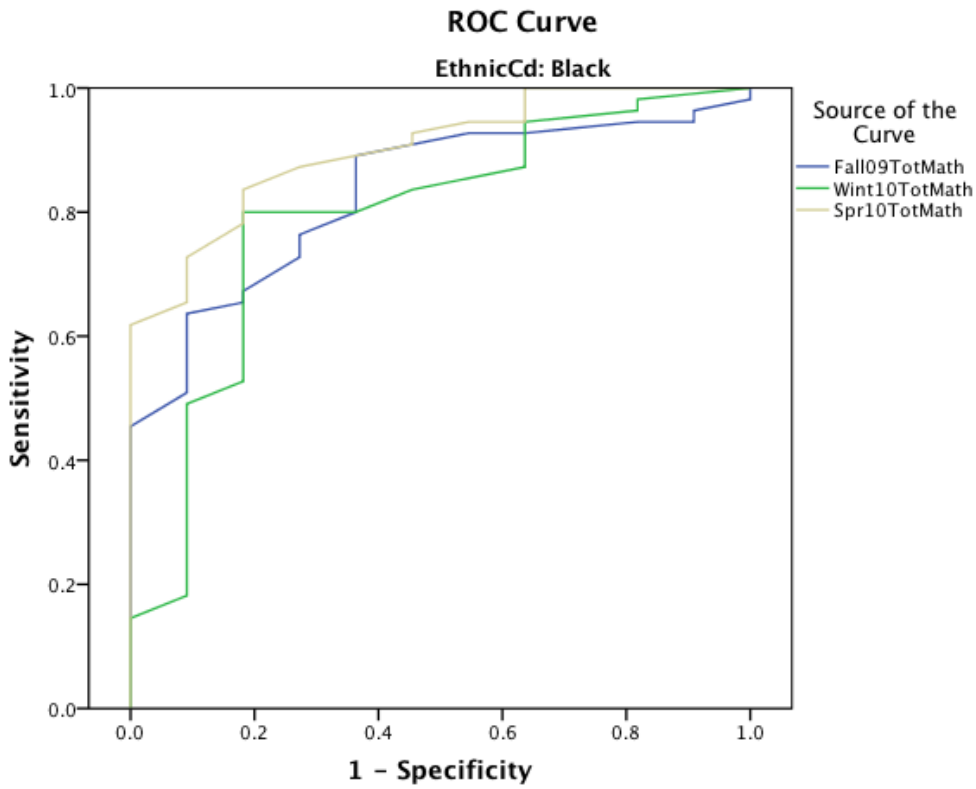
**Grade 7**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	55
Negative	11
Missing	65

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Black



**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.831	.058	.001	.719	.944
Wint10TotMath	.790	.078	.003	.637	.944
Spr10TotMath	.901	.042	.000	.818	.983

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Black

**Grade 7  
Fall Benchmark – Black**

Cut score	Sensitivity	Specificity
8	0	1
11	0	0.982
13.5	0.091	0.964
14.5	0.091	0.945
15.5	0.182	0.945
16.5	0.364	0.927
17.5	0.455	0.927
18.5	0.636	0.891
19.5	0.636	0.873
20.5	0.636	0.855
21.5	0.636	0.836
22.5	0.636	0.8
23.5	0.727	0.764
24.5	0.727	0.727
25.5	0.818	0.673
<b>26.5</b>	<b>0.818</b>	<b>0.655</b>
27.5	0.909	0.636
28.5	0.909	0.6
29.5	0.909	0.509
30.5	1	0.455
31.5	1	0.364
32.5	1	0.345
33.5	1	0.291
34.5	1	0.218
35.5	1	0.145
37.5	1	0.091
39.5	1	0.055
42	1	0.036
45	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	16	29	45
	Meets or exceeds	4	63	67
Total		20	92	112

a. EthnicCd = Black



**Grade 7  
Winter Benchmark – Black**

Cut score	Sensitivity	Specificity
12	0	1
14	0.182	0.982
15.5	0.182	0.964
16.5	0.364	0.945
17.5	0.364	0.891
18.5	0.364	0.873
19.5	0.455	0.855
20.5	0.545	0.836
21.5	0.636	0.8
23	0.818	0.8
24.5	0.818	0.727
25.5	0.818	0.709
<b>26.5</b>	<b>0.818</b>	<b>0.673</b>
27.5	0.818	0.618
28.5	0.818	0.527
29.5	0.909	0.491
30.5	0.909	0.418
31.5	0.909	0.382
32.5	0.909	0.291
33.5	0.909	0.273
34.5	0.909	0.236
35.5	0.909	0.182
36.5	1	0.145
37.5	1	0.091
38.5	1	0.073
39.5	1	0.055
41	1	0.036
43	1	0.018
45	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	11	20	31
	Meets or exceeds	2	46	48
Total		13	66	79

a. EthnicCd = Black

**Grade 7**  
**Spring Benchmark – Black**

Cut score	Sensitivity	Specificity
8	0	1
9.5	0.091	1
11	0.182	1
13	0.273	1
14.5	0.364	1
15.5	0.364	0.982
16.5	0.364	0.964
17.5	0.364	0.945
18.5	0.455	0.945
19.5	0.545	0.927
20.5	0.545	0.909
21.5	0.636	0.891
22.5	0.727	0.873
24	0.818	0.836
25.5	0.818	0.818
<b>26.5</b>	<b>0.818</b>	<b>0.782</b>
28	0.909	0.727
29.5	0.909	0.655
30.5	1	0.618
31.5	1	0.545
32.5	1	0.455
33.5	1	0.4
34.5	1	0.327
35.5	1	0.273
36.5	1	0.255
37.5	1	0.2
38.5	1	0.145
39.5	1	0.109
40.5	1	0.073
41.5	1	0.036
42.5	1	0.018
44	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	12	17	29
	Meets or exceeds	2	56	58
Total		14	73	87

a. EthnicCd = Black

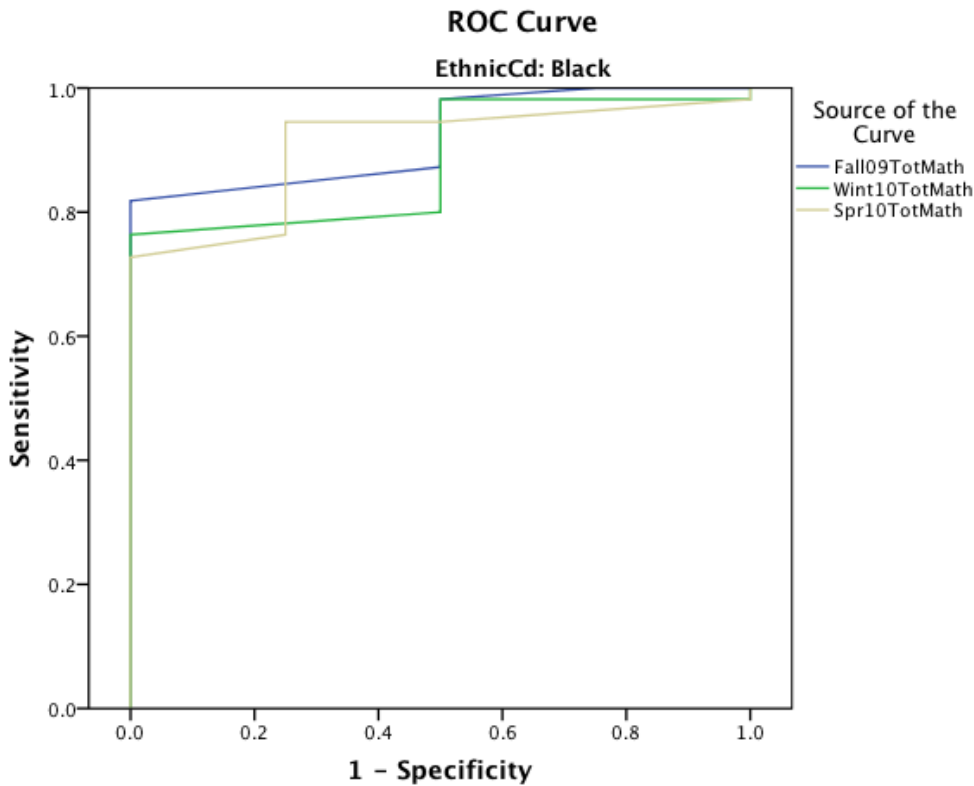
**Grade 8**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	55
Negative	4
Missing	87

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Black



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.920	.047	.005	.829	1.000
Wint10TotMath	.882	.061	.011	.763	1.000
Spr10TotMath	.905	.055	.007	.796	1.000

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Black

**Grade 8  
Fall Benchmark – Black**

Cut score	Sensitivity	Specificity
13	0	1
15.5	0.25	1
17.5	0.5	0.982
18.5	0.5	0.945
19.5	0.5	0.873
20.5	1	0.818
21.5	1	0.8
22.5	1	0.727
24	1	0.655
<b>25.5</b>	<b>1</b>	<b>0.618</b>
26.5	1	0.6
27.5	1	0.564
28.5	1	0.509
29.5	1	0.455
31	1	0.382
32.5	1	0.345
33.5	1	0.309
34.5	1	0.236
35.5	1	0.218
37	1	0.2
38.5	1	0.164
39.5	1	0.127
40.5	1	0.091
41.5	1	0.073
43	1	0.018
45	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	17	36	53
	Meets or exceeds	0	64	64
Total		17	100	117

a. EthnicCd = Black

**Grade 8  
Winter Benchmark – Black**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0	0.982
14	0.25	0.982
15.5	0.5	0.982
16.5	0.5	0.964
17.5	0.5	0.909
18.5	0.5	0.891
20	0.5	0.855
22	0.5	0.818
23.5	0.5	0.8
24.5	1	0.764
<b>25.5</b>	<b>1</b>	<b>0.745</b>
26.5	1	0.709
27.5	1	0.673
28.5	1	0.6
29.5	1	0.564
30.5	1	0.509
31.5	1	0.455
32.5	1	0.382
33.5	1	0.364
34.5	1	0.327
35.5	1	0.291
36.5	1	0.255
38	1	0.2
40	1	0.164
41.5	1	0.109
42.5	1	0.073
43.5	1	0.036
45	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	8	20	28
	Meets or exceeds	0	53	53
Total		8	73	81

a. EthnicCd = Black

**Grade 8  
Spring Benchmark – Black**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0	0.982
13.5	0.25	0.964
15	0.5	0.945
17.5	0.75	0.945
19.5	0.75	0.891
20.5	0.75	0.855
21.5	0.75	0.836
22.5	0.75	0.8
23.5	0.75	0.764
25	1	0.727
26.5	1	0.709
<b>27.5</b>	<b>1</b>	<b>0.655</b>
28.5	1	0.564
29.5	1	0.527
31	1	0.418
32.5	1	0.382
33.5	1	0.364
34.5	1	0.345
35.5	1	0.309
36.5	1	0.218
37.5	1	0.127
39	1	0.109
40.5	1	0.091
41.5	1	0.055
43.5	1	0.036
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	12	30	42
	Meets or exceeds	0	49	49
Total		12	79	91

a. EthnicCd = Black



Student Subgroup: Hispanic

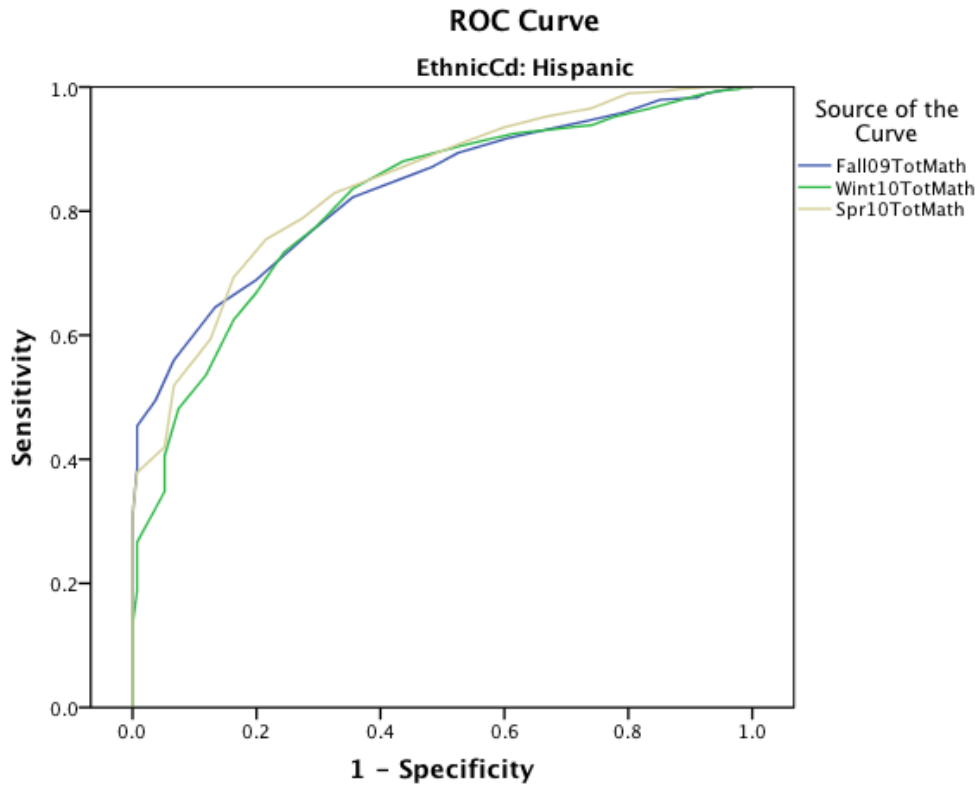
Grade 3

Case Processing Summary<sup>c</sup>

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	293
Negative	135
Missing	497

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Hispanic



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.832	.019	.000	.795	.870
Wint10TotMath	.815	.021	.000	.774	.857
Spr10TotMath	.842	.019	.000	.805	.880

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Hispanic

**Grade 3**  
**Fall Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.007	1
12.5	0.015	1
13.5	0.03	1
14.5	0.037	0.997
15.5	0.074	0.99
16.5	0.089	0.983
17.5	0.148	0.98
18.5	0.207	0.959
19.5	0.267	0.945
20.5	0.393	0.918
21.5	0.474	0.894
22.5	0.519	0.87
23.5	0.644	0.823
24.5	0.711	0.768
25.5	0.8	0.689
<b>26.5</b>	<b>0.867</b>	<b>0.645</b>
27.5	0.933	0.56
28.5	0.963	0.495
29.5	0.993	0.454
30.5	0.993	0.386
31.5	1	0.307
32.5	1	0.242
33.5	1	0.198
34.5	1	0.123
35.5	1	0.078
36.5	1	0.068
37.5	1	0.048
38.5	1	0.031
40.5	1	0.007
42.5	1	0.003
44	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	192	178	370
	Meets or exceeds	32	332	364
Total		224	510	734

a. EthnicCd = Hispanic

**Grade 3**  
**Winter Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
12	0	1
14	0.007	1
15.5	0.015	1
16.5	0.022	0.997
17.5	0.059	0.993
18.5	0.089	0.986
19.5	0.126	0.976
20.5	0.163	0.966
21.5	0.222	0.952
22.5	0.259	0.939
23.5	0.385	0.925
24.5	0.459	0.908
25.5	0.563	0.881
26.5	0.644	0.836
27.5	0.704	0.775
28.5	0.756	0.734
29.5	0.8	0.669
30.5	0.837	0.625
<b>31.5</b>	<b>0.881</b>	<b>0.536</b>
32.5	0.926	0.481
33.5	0.948	0.406
34.5	0.948	0.348
35.5	0.993	0.266
36.5	0.993	0.188
37.5	1	0.133
38.5	1	0.096
39.5	1	0.065
40.5	1	0.034
41.5	1	0.02
42.5	1	0.014
43.5	1	0.003
45	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	160	209	369
	Meets or exceeds	20	194	214
Total		180	403	583

a. EthnicCd = Hispanic

**Grade 3**  
**Spring Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
12	0	1
14.5	0.007	1
17.5	0.022	1
19.5	0.044	1
20.5	0.074	1
21.5	0.119	0.997
22.5	0.141	0.993
23.5	0.2	0.99
24.5	0.259	0.966
25.5	0.333	0.952
26.5	0.4	0.935
27.5	0.474	0.908
28.5	0.541	0.881
29.5	0.593	0.86
30.5	0.674	0.829
31.5	0.726	0.788
32.5	0.785	0.754
33.5	0.837	0.693
34.5	0.874	0.594
<b>35.5</b>	<b>0.933</b>	<b>0.519</b>
36.5	0.948	0.42
37.5	0.993	0.379
38.5	1	0.311
39.5	1	0.215
40.5	1	0.126
41.5	1	0.099
42.5	1	0.051
43.5	1	0.017
44.5	1	0.007
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	184	200	384
	Meets or exceeds	13	249	262
Total		197	449	646

a. EthnicCd = Hispanic



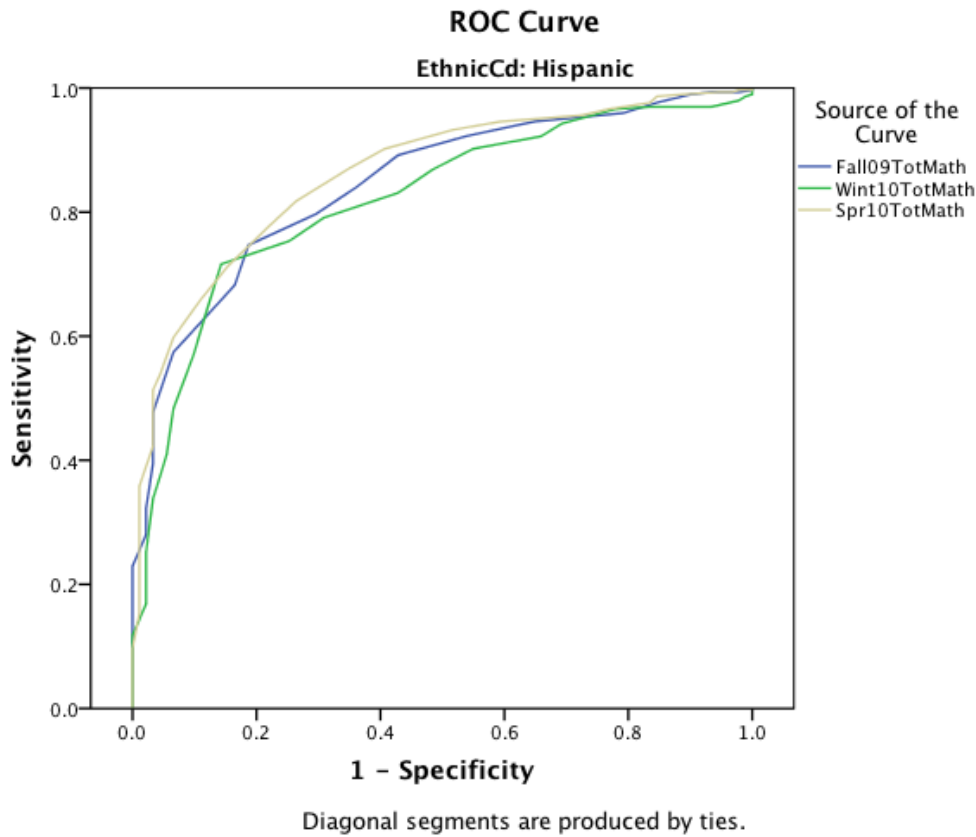
**Grade 4**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	296
Negative	91
Missing	494

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Hispanic



**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.845	.021	.000	.803	.887
Wint10TotMath	.820	.024	.000	.774	.866
Spr10TotMath	.861	.021	.000	.821	.901

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Hispanic

**Grade 4**  
**Fall Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
7	0	1
11	0	0.997
14.5	0.022	0.993
15.5	0.033	0.993
16.5	0.066	0.993
17.5	0.099	0.99
18.5	0.154	0.976
19.5	0.209	0.959
20.5	0.352	0.946
21.5	0.462	0.922
22.5	0.571	0.892
23.5	0.637	0.841
24.5	0.703	0.797
25.5	0.813	0.747
26.5	0.835	0.682
27.5	0.912	0.598
<b>28.5</b>	<b>0.934</b>	<b>0.574</b>
29.5	0.967	0.476
30.5	0.967	0.395
31.5	0.978	0.324
32.5	0.978	0.28
33.5	1	0.23
34.5	1	0.182
35.5	1	0.152
36.5	1	0.122
37.5	1	0.081
38.5	1	0.061
40	1	0.024
41.5	1	0.02
42.5	1	0.003
44	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	200	228	428
	Meets or exceeds	13	298	311
Total		213	526	739

a. EthnicCd = Hispanic

**Grade 4**  
**Winter Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
12	0	1
14	0	0.997
15.5	0	0.99
16.5	0.011	0.986
17.5	0.022	0.98
18.5	0.066	0.97
19.5	0.165	0.97
20.5	0.22	0.966
21.5	0.308	0.943
22.5	0.341	0.922
23.5	0.451	0.902
24.5	0.516	0.868
25.5	0.571	0.831
26.5	0.692	0.791
27.5	0.747	0.753
28.5	0.857	0.716
29.5	0.879	0.645
<b>30.5</b>	<b>0.901</b>	<b>0.571</b>
31.5	0.934	0.483
32.5	0.945	0.409
33.5	0.967	0.338
34.5	0.978	0.253
35.5	0.978	0.216
36.5	0.978	0.169
37.5	1	0.118
38.5	1	0.095
39.5	1	0.054
40.5	1	0.03
41.5	1	0.017
42.5	1	0.007
44	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	162	214	376
	Meets or exceeds	10	240	250
Total		172	454	626

a. EthnicCd = Hispanic

**Grade 4**  
**Spring Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
12	0	1
14	0	0.997
15.5	0.011	0.997
16.5	0.022	0.997
17.5	0.033	0.993
18.5	0.055	0.993
19.5	0.11	0.99
20.5	0.154	0.986
21.5	0.165	0.976
22.5	0.231	0.966
23.5	0.275	0.956
24.5	0.407	0.946
25.5	0.484	0.932
26.5	0.593	0.902
27.5	0.648	0.872
28.5	0.736	0.818
29.5	0.78	0.777
30.5	0.846	0.713
31.5	0.89	0.659
<b>32.5</b>	<b>0.934</b>	<b>0.598</b>
33.5	0.956	0.537
34.5	0.967	0.514
35.5	0.967	0.422
36.5	0.989	0.358
37.5	0.989	0.291
38.5	0.989	0.223
39.5	0.989	0.152
40.5	1	0.098
41.5	1	0.074
42.5	1	0.044
43.5	1	0.024
44.5	1	0.007
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	159	182	341
	Meets or exceeds	17	298	315
Total		176	480	656

a. EthnicCd = Hispanic



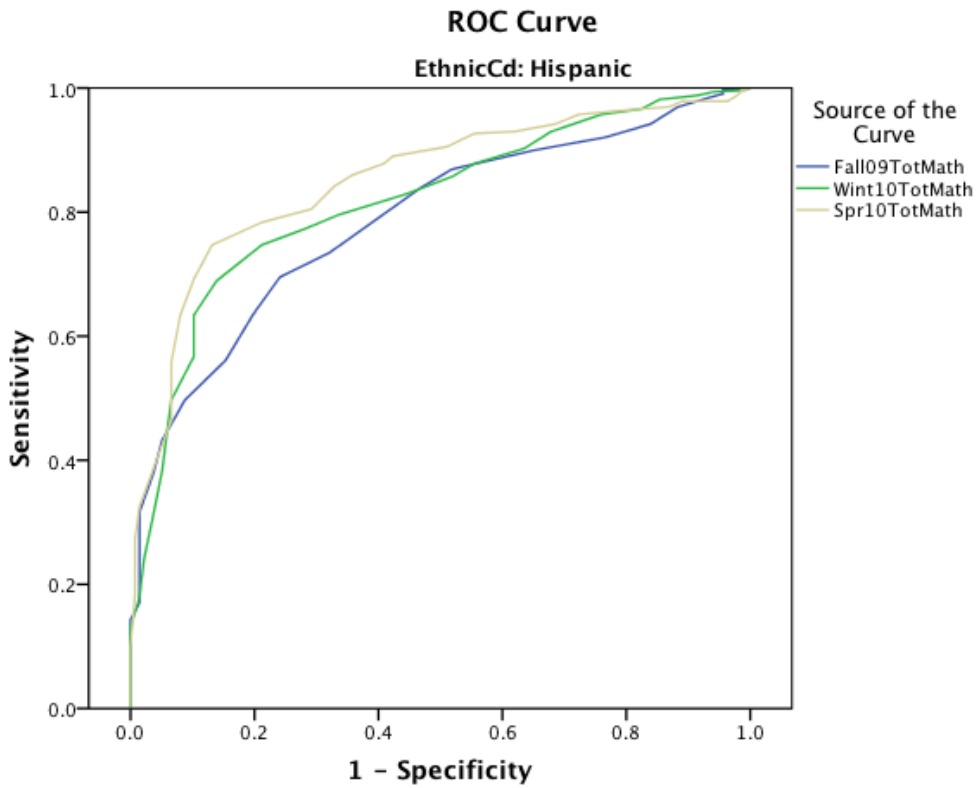
**Grade 5**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	328
Negative	137
Missing	408

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Hispanic



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.786	.021	.000	.744	.828
Wint10TotMath	.817	.020	.000	.777	.857
Spr10TotMath	.851	.019	.000	.814	.887

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Hispanic

**Grade 5**  
**Fall Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.007	1
13.5	0.015	0.997
14.5	0.044	0.997
15.5	0.044	0.991
16.5	0.066	0.985
17.5	0.117	0.97
18.5	0.161	0.942
19.5	0.234	0.921
20.5	0.35	0.899
21.5	0.482	0.869
22.5	0.533	0.838
23.5	0.606	0.787
24.5	0.679	0.735
25.5	0.759	0.695
26.5	0.803	0.634
<b>27.5</b>	<b>0.847</b>	<b>0.561</b>
28.5	0.912	0.497
29.5	0.949	0.433
30.5	0.964	0.378
31.5	0.985	0.317
32.5	0.985	0.25
33.5	0.985	0.204
34.5	0.985	0.171
35.5	1	0.143
36.5	1	0.104
37.5	1	0.067
38.5	1	0.055
39.5	1	0.021
40.5	1	0.015
41.5	1	0.006
43	1	0.003
45	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	207	217	424
	Meets or exceeds	35	302	337
Total		242	519	761

a. EthnicCd = Hispanic

**Grade 5**  
**Winter Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.007	1
15	0.007	0.997
16.5	0.058	0.994
17.5	0.088	0.988
18.5	0.146	0.982
19.5	0.175	0.966
20.5	0.241	0.957
21.5	0.321	0.93
22.5	0.365	0.902
23.5	0.445	0.878
24.5	0.482	0.857
25.5	0.555	0.829
26.5	0.664	0.796
27.5	0.715	0.774
28.5	0.788	0.747
29.5	0.861	0.689
30.5	0.898	0.634
<b>31.5</b>	<b>0.898</b>	<b>0.567</b>
32.5	0.934	0.497
33.5	0.942	0.442
34.5	0.949	0.384
35.5	0.964	0.311
36.5	0.978	0.241
37.5	0.985	0.18
38.5	1	0.131
39.5	1	0.104
40.5	1	0.073
41.5	1	0.055
42.5	1	0.024
43.5	1	0.009
44.5	1	0.003
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	188	194	382
	Meets or exceeds	16	240	256
Total		204	434	638

a. EthnicCd = Hispanic

**Grade 5  
Spring Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
6	0	1
9.5	0.007	1
12.5	0.007	0.997
13.5	0.015	0.997
14.5	0.015	0.994
15.5	0.022	0.988
16.5	0.036	0.979
17.5	0.051	0.979
18.5	0.08	0.979
19.5	0.109	0.979
20.5	0.131	0.97
21.5	0.212	0.963
22.5	0.277	0.957
23.5	0.314	0.942
24.5	0.38	0.93
25.5	0.445	0.927
26.5	0.489	0.905
27.5	0.577	0.89
28.5	0.591	0.878
29.5	0.642	0.86
30.5	0.672	0.841
31.5	0.708	0.805
32.5	0.788	0.784
33.5	0.869	0.747
<b>34.5</b>	<b>0.898</b>	<b>0.692</b>
35.5	0.92	0.634
36.5	0.934	0.558
37.5	0.934	0.506
38.5	0.934	0.463
39.5	0.956	0.405
40.5	0.985	0.326
41.5	0.993	0.274
42.5	0.993	0.183
43.5	1	0.101
44.5	1	0.03
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	177	135	312
	Meets or exceeds	28	331	359
Total		205	466	671

a. EthnicCd = Hispanic



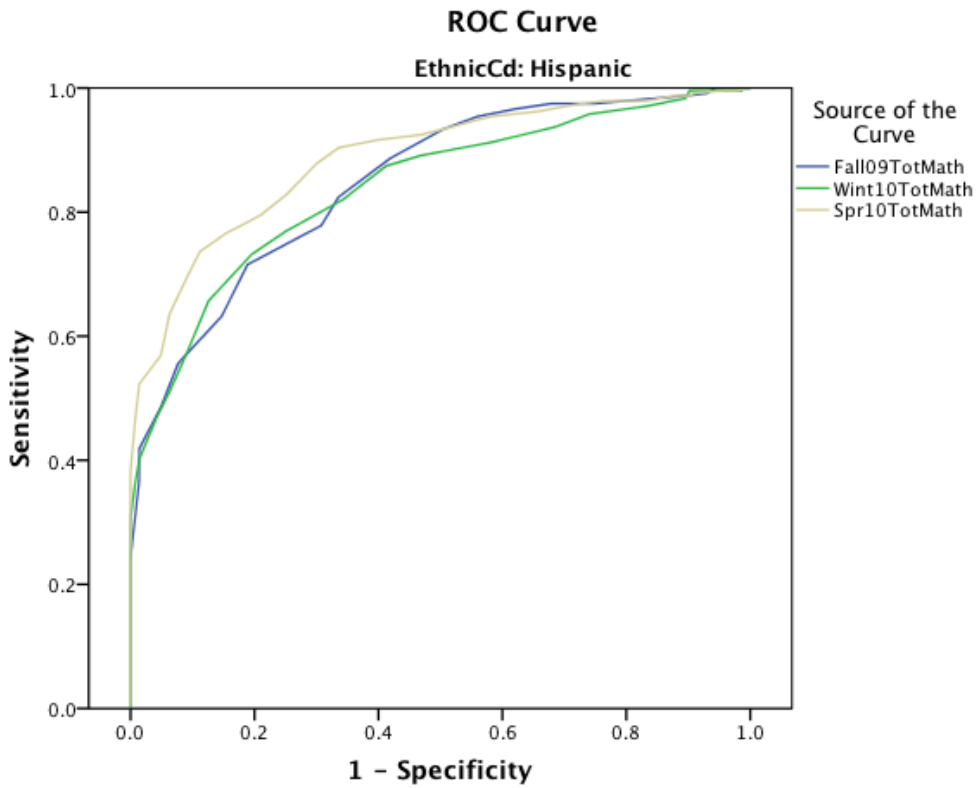
**Grade 6**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	239
Negative	143
Missing	470

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Hispanic



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.848	.019	.000	.810	.886
Wint10TotMath	.840	.020	.000	.801	.879
Spr10TotMath	.887	.016	.000	.855	.919

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Hispanic

**Grade 6**  
**Fall Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.007	1
13.5	0.021	1
14.5	0.056	1
15.5	0.07	0.992
16.5	0.105	0.987
17.5	0.154	0.983
18.5	0.252	0.975
19.5	0.322	0.975
20.5	0.378	0.967
21.5	0.441	0.954
22.5	0.497	0.933
23.5	0.58	0.887
24.5	0.664	0.824
25.5	0.692	0.778
<b>26.5</b>	<b>0.811</b>	<b>0.715</b>
27.5	0.853	0.632
28.5	0.923	0.556
29.5	0.951	0.485
30.5	0.986	0.418
31.5	0.986	0.368
32.5	0.993	0.305
33.5	1	0.243
34.5	1	0.205
35.5	1	0.159
36.5	1	0.126
37.5	1	0.088
38.5	1	0.063
39.5	1	0.038
40.5	1	0.029
41.5	1	0.021
42.5	1	0.013
44	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	242	141	383
	Meets or exceeds	53	305	358
Total		295	446	741

a. EthnicCd = Hispanic

**Grade 6**  
**Winter Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.014	1
12.5	0.014	0.996
13.5	0.042	0.996
14.5	0.063	0.996
15.5	0.077	0.996
16.5	0.098	0.996
17.5	0.105	0.983
18.5	0.168	0.971
19.5	0.259	0.958
20.5	0.315	0.937
21.5	0.42	0.912
22.5	0.531	0.891
23.5	0.587	0.874
24.5	0.657	0.82
25.5	0.748	0.77
26.5	0.804	0.732
<b>27.5</b>	<b>0.874</b>	<b>0.657</b>
28.5	0.909	0.573
29.5	0.937	0.51
30.5	0.958	0.469
31.5	0.986	0.402
32.5	0.993	0.36
33.5	1	0.305
34.5	1	0.247
35.5	1	0.201
36.5	1	0.155
37.5	1	0.105
38.5	1	0.067
39.5	1	0.046
40.5	1	0.033
41.5	1	0.025
42.5	1	0.008
43.5	1	0.004
45	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	209	133	342
	Meets or exceeds	34	213	247
Total		243	346	589

a. EthnicCd = Hispanic

**Grade 6**  
**Spring Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.007	1
12.5	0.021	0.996
13.5	0.042	0.996
15	0.091	0.992
16.5	0.098	0.987
17.5	0.126	0.987
18.5	0.168	0.979
19.5	0.238	0.979
20.5	0.273	0.975
21.5	0.343	0.962
22.5	0.42	0.954
23.5	0.483	0.937
24.5	0.531	0.925
25.5	0.601	0.916
26.5	0.664	0.904
27.5	0.699	0.879
28.5	0.748	0.828
29.5	0.79	0.795
30.5	0.846	0.766
<b>31.5</b>	<b>0.888</b>	<b>0.736</b>
32.5	0.909	0.695
33.5	0.937	0.636
34.5	0.951	0.569
35.5	0.986	0.523
36.5	0.993	0.46
37.5	1	0.381
38.5	1	0.293
39.5	1	0.213
40.5	1	0.155
41.5	1	0.096
42.5	1	0.059
43.5	1	0.029
44.5	1	0.004
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	176	92	268
	Meets or exceeds	22	231	253
Total		198	323	521

a. EthnicCd = Hispanic



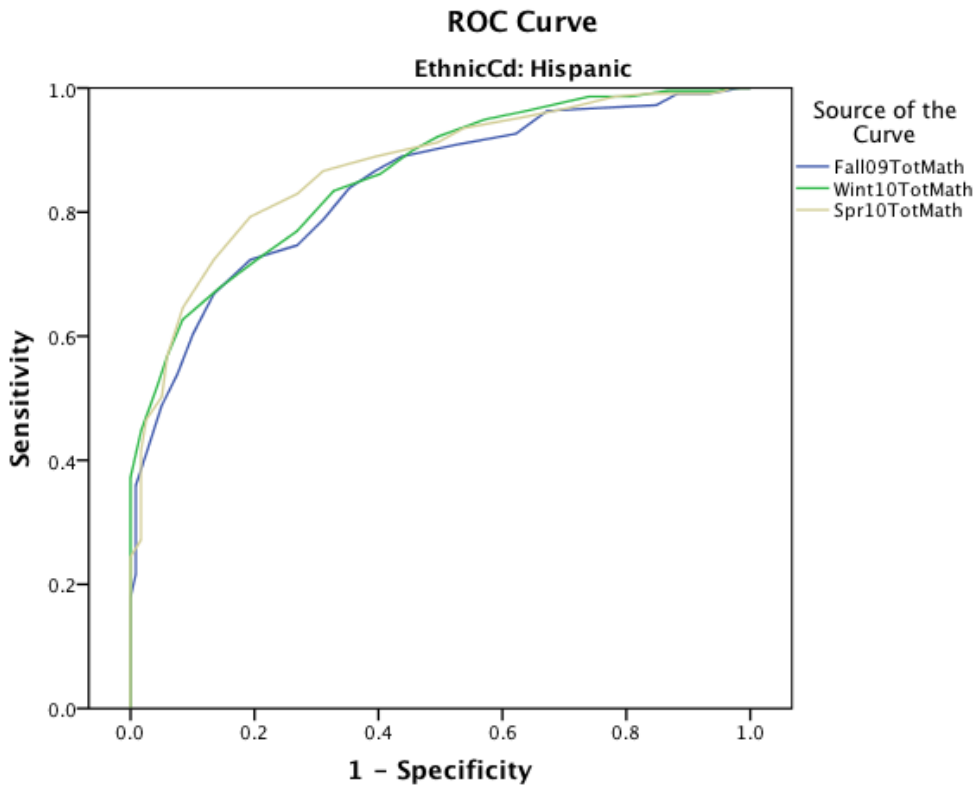
**Grade 7**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	217
Negative	119
Missing	458

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Hispanic



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.840	.021	.000	.798	.882
Wint10TotMath	.859	.020	.000	.820	.897
Spr10TotMath	.870	.019	.000	.832	.908

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Hispanic

**Grade 7**  
**Fall Benchmark – Hispanic**

Cut score	Specificity	Sensitivity
8	0	1
9.5	0.017	1
10.5	0.042	0.995
11.5	0.067	0.991
12.5	0.092	0.991
13.5	0.118	0.991
14.5	0.151	0.972
15.5	0.244	0.968
16.5	0.328	0.963
17.5	0.378	0.926
18.5	0.479	0.908
19.5	0.563	0.889
20.5	0.605	0.866
21.5	0.647	0.839
22.5	0.689	0.788
23.5	0.731	0.747
24.5	0.807	0.724
25.5	0.866	0.668
<b>26.5</b>	<b>0.899</b>	<b>0.604</b>
27.5	0.924	0.539
28.5	0.95	0.488
29.5	0.975	0.41
30.5	0.992	0.359
31.5	0.992	0.263
32.5	0.992	0.217
33.5	1	0.18
34.5	1	0.152
35.5	1	0.101
36.5	1	0.088
37.5	1	0.069
38.5	1	0.041
39.5	1	0.018
40.5	1	0.009
41.5	1	0.005
43	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	198	144	342
	Meets or exceeds	16	250	266
Total		214	394	608

a. EthnicCd = Hispanic

**Grade 7**  
**Winter Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
7	0	1
8.5	0.008	1
10	0.017	1
11.5	0.034	1
12.5	0.05	0.995
13.5	0.109	0.995
14.5	0.134	0.995
15.5	0.193	0.986
16.5	0.261	0.986
17.5	0.361	0.963
18.5	0.429	0.949
19.5	0.504	0.922
20.5	0.546	0.899
21.5	0.597	0.862
22.5	0.672	0.834
23.5	0.731	0.77
24.5	0.79	0.728
25.5	0.857	0.677
<b>26.5</b>	<b>0.916</b>	<b>0.627</b>
27.5	0.941	0.567
28.5	0.958	0.516
29.5	0.983	0.447
30.5	1	0.373
31.5	1	0.332
32.5	1	0.281
33.5	1	0.217
34.5	1	0.175
35.5	1	0.134
36.5	1	0.111
37.5	1	0.078
38.5	1	0.046
39.5	1	0.028
40.5	1	0.018
41.5	1	0.009
42.5	1	0.005
44	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	165	98	263
	Meets or exceeds	12	174	186
Total		177	272	449

a. EthnicCd = Hispanic

**Grade 7  
Spring Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.017	1
11.5	0.025	1
12.5	0.034	1
13.5	0.042	0.995
14.5	0.067	0.991
15.5	0.109	0.991
16.5	0.168	0.991
17.5	0.218	0.986
18.5	0.294	0.968
19.5	0.361	0.954
20.5	0.462	0.935
21.5	0.504	0.912
22.5	0.605	0.889
23.5	0.689	0.866
24.5	0.731	0.829
25.5	0.807	0.793
<b>26.5</b>	<b>0.866</b>	<b>0.724</b>
27.5	0.916	0.645
28.5	0.941	0.567
29.5	0.95	0.502
30.5	0.975	0.465
31.5	0.983	0.415
32.5	0.983	0.387
33.5	0.983	0.309
34.5	0.983	0.272
35.5	1	0.244
36.5	1	0.212
37.5	1	0.189
38.5	1	0.147
39.5	1	0.101
40.5	1	0.088
41.5	1	0.069
42.5	1	0.028
43.5	1	0.009
44.5	1	0.005
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	144	77	221
	Meets or exceeds	21	199	220
Total		165	276	441

a. EthnicCd = Hispanic



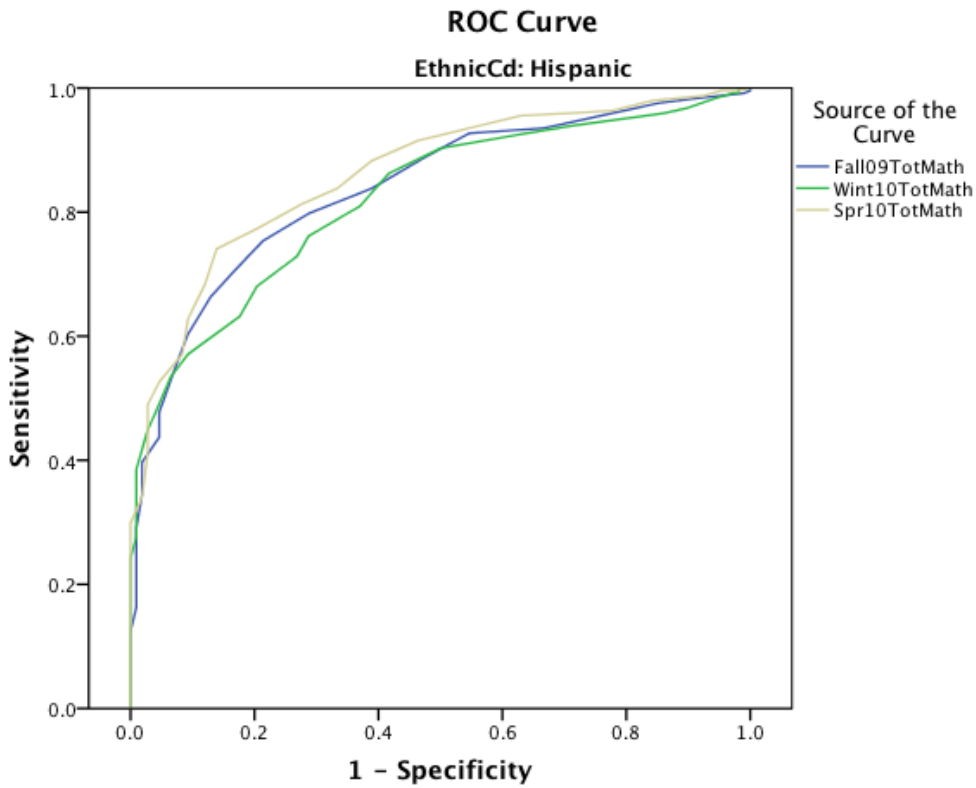
**Grade 8**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	247
Negative	108
Missing	510

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Hispanic



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.838	.022	.000	.796	.880
Wint10TotMath	.822	.022	.000	.779	.865
Spr10TotMath	.861	.020	.000	.822	.900

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = Hispanic

**Grade 8**  
**Fall Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0	0.996
12.5	0.009	0.992
13.5	0.046	0.988
14.5	0.083	0.984
15.5	0.148	0.976
16.5	0.222	0.96
17.5	0.333	0.935
18.5	0.454	0.927
19.5	0.528	0.887
20.5	0.611	0.838
21.5	0.713	0.798
22.5	0.787	0.753
23.5	0.833	0.704
24.5	0.87	0.664
<b>25.5</b>	<b>0.907</b>	<b>0.603</b>
26.5	0.926	0.555
27.5	0.954	0.478
28.5	0.954	0.437
29.5	0.981	0.397
30.5	0.981	0.344
31.5	0.991	0.291
32.5	0.991	0.243
33.5	0.991	0.186
34.5	0.991	0.162
35.5	1	0.126
36.5	1	0.097
37.5	1	0.081
38.5	1	0.049
39.5	1	0.036
40.5	1	0.024
41.5	1	0.02
42.5	1	0.012
43.5	1	0.004
45	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	222	170	392
	Meets or exceeds	14	263	277
Total		236	433	669

a. EthnicCd = Hispanic

**Grade 8**  
**Winter Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.019	1
11.5	0.019	0.992
12.5	0.028	0.992
13.5	0.056	0.984
14.5	0.102	0.968
15.5	0.139	0.96
16.5	0.287	0.939
17.5	0.361	0.927
18.5	0.5	0.903
19.5	0.583	0.862
20.5	0.63	0.81
21.5	0.713	0.761
22.5	0.731	0.729
23.5	0.796	0.68
24.5	0.824	0.632
<b>25.5</b>	<b>0.907</b>	<b>0.571</b>
26.5	0.935	0.534
27.5	0.963	0.47
28.5	0.972	0.449
29.5	0.991	0.385
30.5	0.991	0.332
31.5	0.991	0.275
32.5	1	0.243
33.5	1	0.215
34.5	1	0.19
35.5	1	0.154
36.5	1	0.134
37.5	1	0.105
38.5	1	0.085
39.5	1	0.057
40.5	1	0.036
41.5	1	0.02
43	1	0.012
44.5	1	0.008
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	157	136	293
	Meets or exceeds	13	176	189
Total		170	312	482

a. EthnicCd = Hispanic

**Grade 8**  
**Spring Benchmark – Hispanic**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.019	0.996
12.5	0.046	0.996
13.5	0.074	0.988
14.5	0.157	0.98
15.5	0.222	0.964
16.5	0.287	0.96
17.5	0.37	0.955
18.5	0.454	0.935
19.5	0.537	0.915
20.5	0.611	0.883
21.5	0.667	0.838
22.5	0.722	0.814
23.5	0.796	0.773
24.5	0.861	0.741
25.5	0.88	0.684
26.5	0.907	0.628
<b>27.5</b>	<b>0.917</b>	<b>0.571</b>
28.5	0.954	0.526
29.5	0.972	0.49
30.5	0.972	0.413
31.5	0.981	0.34
32.5	1	0.3
33.5	1	0.243
34.5	1	0.215
35.5	1	0.17
36.5	1	0.134
37.5	1	0.113
38.5	1	0.081
39.5	1	0.065
40.5	1	0.049
41.5	1	0.032
43	1	0.012
44.5	1	0.004
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	139	124	263
	Meets or exceeds	11	179	190
Total		150	303	453

a. EthnicCd = Hispanic



Student Subgroup: White

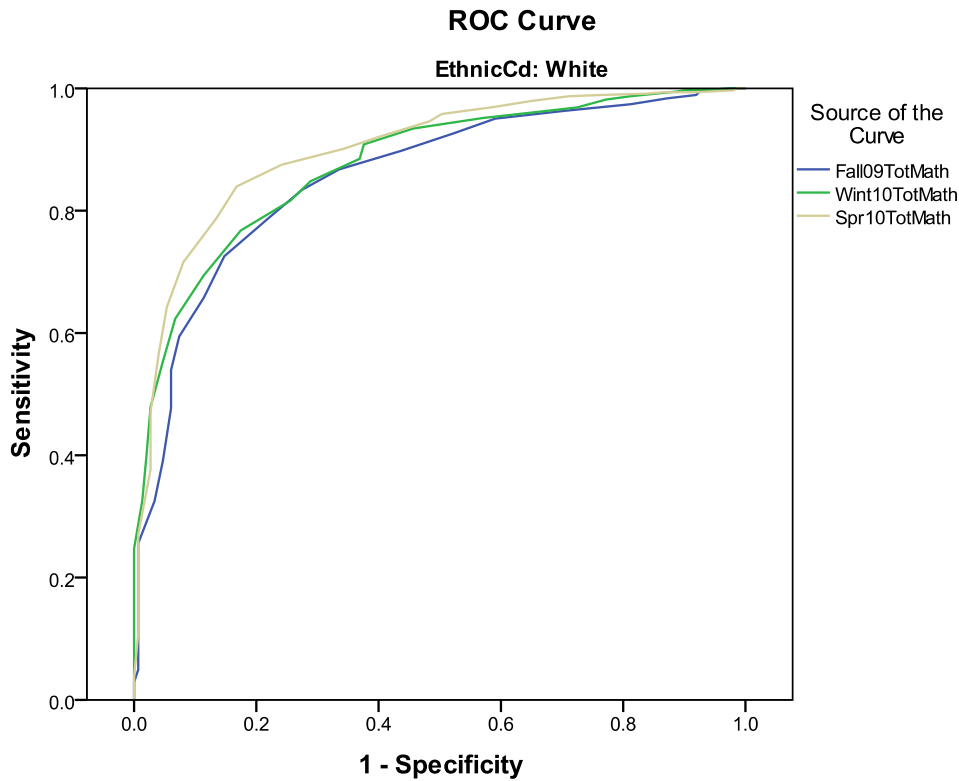
Grade 3

Case Processing Summary<sup>c</sup>

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	929
Negative	149
Missing	1712

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = White



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Asymptotic 95% Confidence Interval				
	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.856	.016	.000	.825	.887
Wint10TotMath	.877	.014	.000	.850	.903
Spr10TotMath	.899	.013	.000	.873	.925

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = White

**Grade 3**  
**Fall Benchmark – White**

Cut score	Sensitivity	Specificity
10	0	1
12	0.007	1
13.5	0.02	1
14.5	0.04	0.999
15.5	0.054	0.998
16.5	0.074	0.996
17.5	0.081	0.989
18.5	0.128	0.984
19.5	0.188	0.974
20.5	0.295	0.963
21.5	0.409	0.95
22.5	0.477	0.927
23.5	0.564	0.898
24.5	0.664	0.868
25.5	0.725	0.834
<b>26.5</b>	<b>0.779</b>	<b>0.789</b>
27.5	0.852	0.726
28.5	0.886	0.658
29.5	0.926	0.594
30.5	0.94	0.539
31.5	0.94	0.477
32.5	0.953	0.391
33.5	0.966	0.325
34.5	0.993	0.256
35.5	0.993	0.203
36.5	0.993	0.164
37.5	0.993	0.121
38.5	0.993	0.081
39.5	0.993	0.05
40.5	1	0.029
41.5	1	0.02
42.5	1	0.013
43.5	1	0.002
44.5	1	0.001
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	216	364	580
	Meets or exceeds	72	1509	1581
Total		288	1873	2161

a. EthnicCd = White

**Grade 3**  
**Winter Benchmark – White**

Cut score	Sensitivity	Specificity
11	0	1
13	0.007	1
14.5	0.02	1
15.5	0.04	0.999
16.5	0.047	0.998
17.5	0.06	0.998
18.5	0.074	0.998
19.5	0.101	0.997
20.5	0.114	0.995
21.5	0.188	0.987
22.5	0.228	0.982
23.5	0.275	0.969
24.5	0.342	0.961
25.5	0.43	0.952
26.5	0.544	0.934
27.5	0.624	0.909
28.5	0.631	0.885
29.5	0.711	0.848
30.5	0.745	0.816
<b>31.5</b>	<b>0.826</b>	<b>0.767</b>
32.5	0.886	0.694
33.5	0.933	0.623
34.5	0.953	0.553
35.5	0.973	0.479
36.5	0.98	0.398
37.5	0.987	0.325
38.5	1	0.248
39.5	1	0.183
40.5	1	0.136
41.5	1	0.09
42.5	1	0.052
43.5	1	0.028
44.5	1	0.01
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	157	270	427
	Meets or exceeds	30	849	879
Total		187	1119	1306

a. EthnicCd = White

**Grade 3**  
**Spring Benchmark – White**

Cut score	Sensitivity	Specificity
16	0	1
17.5	0.007	1
18.5	0.013	1
19.5	0.02	0.997
20.5	0.04	0.996
21.5	0.081	0.994
22.5	0.087	0.994
23.5	0.134	0.994
24.5	0.161	0.991
25.5	0.235	0.989
26.5	0.289	0.987
27.5	0.349	0.98
28.5	0.409	0.97
29.5	0.497	0.958
30.5	0.517	0.946
31.5	0.597	0.921
32.5	0.658	0.901
33.5	0.758	0.875
34.5	0.832	0.84
<b>35.5</b>	<b>0.866</b>	<b>0.787</b>
36.5	0.919	0.716
37.5	0.946	0.643
38.5	0.96	0.566
39.5	0.973	0.47
40.5	0.973	0.377
41.5	0.993	0.27
42.5	0.993	0.185
43.5	0.993	0.109
44.5	1	0.038
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	249	326	575
	Meets or exceeds	40	1465	1505
Total		289	1791	2080

a. EthnicCd = White



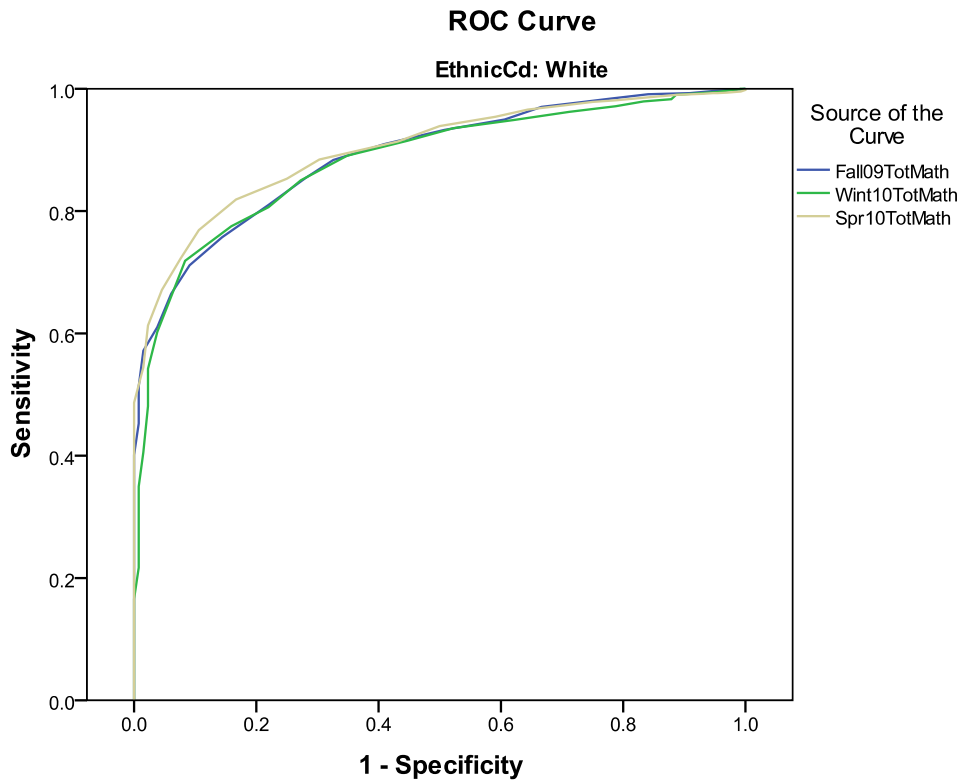
**Grade 4**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	1116
Negative	132
Missing	1410

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = White



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.890	.012	.000	.867	.913
Wint10TotMath	.882	.013	.000	.857	.907
Spr10TotMath	.900	.011	.000	.879	.921

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = White

**Grade 4**  
**Fall Benchmark – White**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.008	0.999
12.5	0.015	0.999
14	0.015	0.998
15.5	0.023	0.998
16.5	0.053	0.996
17.5	0.091	0.993
18.5	0.159	0.991
19.5	0.22	0.984
20.5	0.28	0.977
21.5	0.333	0.97
22.5	0.394	0.95
23.5	0.492	0.933
24.5	0.591	0.909
25.5	0.674	0.884
26.5	0.72	0.854
27.5	0.78	0.81
<b>28.5</b>	<b>0.856</b>	<b>0.757</b>
29.5	0.909	0.711
30.5	0.939	0.665
31.5	0.962	0.61
32.5	0.985	0.572
33.5	0.992	0.513
34.5	0.992	0.453
35.5	1	0.401
36.5	1	0.349
37.5	1	0.299
38.5	1	0.238
39.5	1	0.175
40.5	1	0.125
41.5	1	0.081
42.5	1	0.049
43.5	1	0.025
44.5	1	0.006
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	223	447	670
	Meets or exceeds	46	1627	1673
Total		269	2074	2343

a. EthnicCd = White

**Grade 4**  
**Winter Benchmark – White**

Cut score	Sensitivity	Specificity
11	0	1
13	0.008	1
15.5	0.008	0.999
17.5	0.023	0.998
18.5	0.045	0.995
19.5	0.114	0.99
20.5	0.121	0.983
21.5	0.167	0.979
22.5	0.212	0.971
23.5	0.288	0.962
24.5	0.379	0.949
25.5	0.477	0.935
26.5	0.553	0.915
27.5	0.652	0.891
28.5	0.727	0.85
29.5	0.78	0.806
<b>30.5</b>	<b>0.841</b>	<b>0.775</b>
31.5	0.917	0.719
32.5	0.939	0.66
33.5	0.962	0.602
34.5	0.977	0.542
35.5	0.977	0.481
36.5	0.985	0.406
37.5	0.992	0.349
38.5	0.992	0.282
39.5	0.992	0.217
40.5	1	0.166
41.5	1	0.103
42.5	1	0.063
43.5	1	0.03
44.5	1	0.01
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	161	344	505
	Meets or exceeds	27	1085	1112
Total		188	1429	1617

a. EthnicCd = White

**Grade 4**  
**Spring Benchmark – White**

Cut score	Sensitivity	Specificity
9	0	1
11.5	0	0.999
14	0	0.998
15.5	0.008	0.996
16.5	0.03	0.994
17.5	0.045	0.993
18.5	0.053	0.993
19.5	0.068	0.992
20.5	0.114	0.99
21.5	0.121	0.989
22.5	0.144	0.987
23.5	0.212	0.981
24.5	0.25	0.978
25.5	0.295	0.973
26.5	0.356	0.966
27.5	0.409	0.954
28.5	0.5	0.939
29.5	0.568	0.914
30.5	0.697	0.884
31.5	0.75	0.853
<b>32.5</b>	<b>0.833</b>	<b>0.819</b>
33.5	0.894	0.769
34.5	0.924	0.722
35.5	0.955	0.671
36.5	0.977	0.613
37.5	0.985	0.545
38.5	1	0.487
39.5	1	0.412
40.5	1	0.335
41.5	1	0.265
42.5	1	0.194
43.5	1	0.115
44.5	1	0.042
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	237	348	585
	Meets or exceeds	53	1643	1696
Total		290	1991	2281

a. EthnicCd = White



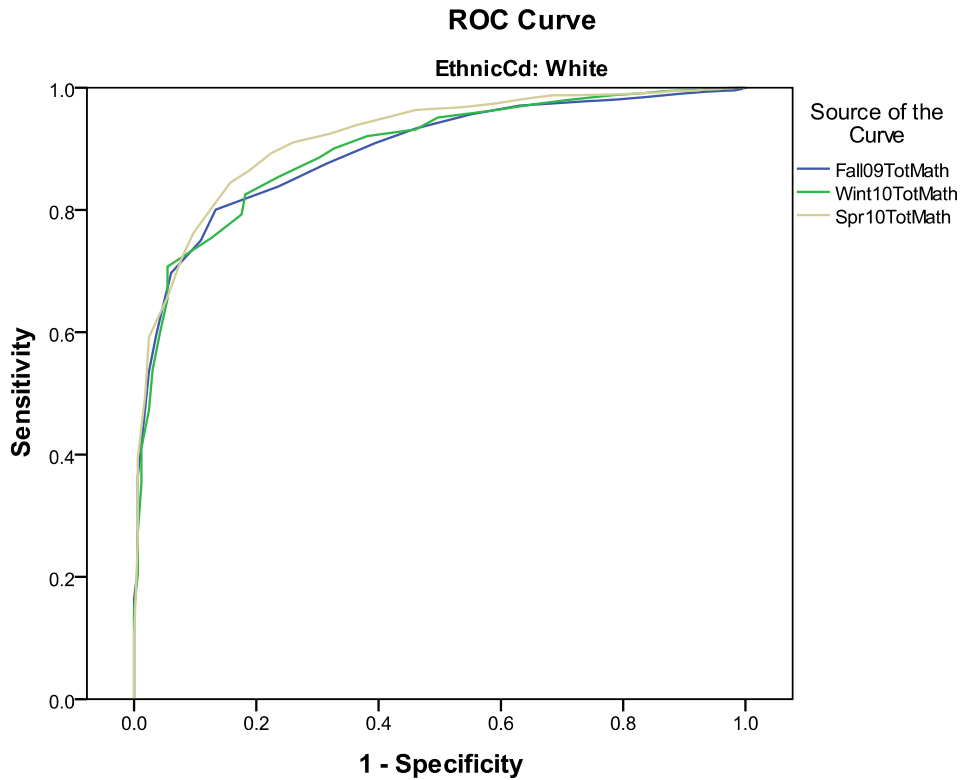
**Grade 5**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	1288
Negative	165
Missing	1318

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = White



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.895	.011	.000	.873	.917
Wint10TotMath	.897	.011	.000	.875	.920
Spr10TotMath	.917	.010	.000	.896	.937

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. EthnicCd = White

**Grade 5**  
**Fall Benchmark – White**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0	0.999
13.5	0.006	0.999
14.5	0.006	0.998
15.5	0.018	0.995
16.5	0.036	0.995
17.5	0.079	0.992
18.5	0.133	0.988
19.5	0.2	0.981
20.5	0.255	0.978
21.5	0.37	0.97
22.5	0.448	0.957
23.5	0.539	0.933
24.5	0.606	0.909
25.5	0.685	0.876
26.5	0.764	0.839
<b>27.5</b>	<b>0.867</b>	<b>0.8</b>
28.5	0.891	0.75
29.5	0.939	0.697
30.5	0.952	0.648
31.5	0.964	0.596
32.5	0.976	0.536
33.5	0.982	0.477
34.5	0.988	0.418
35.5	0.994	0.364
36.5	0.994	0.321
37.5	0.994	0.259
38.5	0.994	0.214
39.5	1	0.164
40.5	1	0.118
41.5	1	0.085
42.5	1	0.047
43.5	1	0.023
44.5	1	0.009
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	239	412	651
	Meets or exceeds	53	1823	1876
Total		292	2235	2527

a. EthnicCd = White

**Grade 5**  
**Winter Benchmark – White**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.006	1
14.5	0.012	1
15.5	0.03	0.999
16.5	0.036	0.998
17.5	0.073	0.996
18.5	0.127	0.995
19.5	0.17	0.991
20.5	0.218	0.988
21.5	0.285	0.981
22.5	0.339	0.974
23.5	0.418	0.962
24.5	0.503	0.951
25.5	0.539	0.932
26.5	0.618	0.921
27.5	0.673	0.901
28.5	0.697	0.886
29.5	0.764	0.854
30.5	0.818	0.825
<b>31.5</b>	<b>0.824</b>	<b>0.793</b>
32.5	0.873	0.755
33.5	0.945	0.707
34.5	0.945	0.655
35.5	0.958	0.599
36.5	0.97	0.539
37.5	0.976	0.473
38.5	0.988	0.411
39.5	0.988	0.353
40.5	0.994	0.271
41.5	0.994	0.204
42.5	1	0.145
43.5	1	0.075
44.5	1	0.032
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	169	351	520
	Meets or exceeds	32	1176	1208
Total		201	1527	1728

a. EthnicCd = White

**Grade 5**  
**Spring Benchmark – White**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.012	1
14.5	0.018	1
15.5	0.024	0.999
16.5	0.03	0.999
17.5	0.042	0.998
18.5	0.067	0.997
19.5	0.079	0.995
20.5	0.127	0.994
21.5	0.139	0.992
22.5	0.206	0.989
23.5	0.285	0.988
24.5	0.315	0.988
25.5	0.364	0.981
26.5	0.406	0.974
27.5	0.461	0.968
28.5	0.539	0.964
29.5	0.582	0.953
30.5	0.636	0.939
31.5	0.679	0.925
32.5	0.739	0.911
33.5	0.776	0.893
<b>34.5</b>	<b>0.812</b>	<b>0.864</b>
35.5	0.842	0.845
36.5	0.873	0.804
37.5	0.903	0.762
38.5	0.921	0.724
39.5	0.945	0.658
40.5	0.976	0.592
41.5	0.982	0.498
42.5	0.994	0.393
43.5	0.994	0.259
44.5	1	0.099
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	219	280	499
	Meets or exceeds	68	1877	1945
Total		287	2157	2444

a. EthnicCd = White



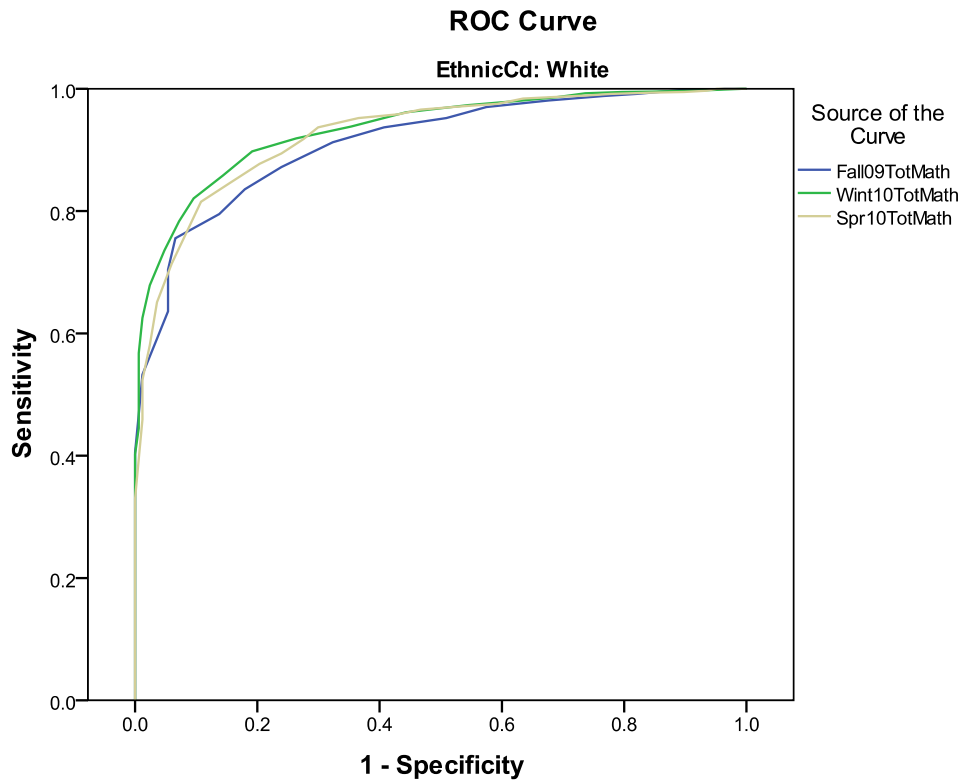
**Grade 6**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	937
Negative	167
Missing	1614

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = White



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.912	.010	.000	.892	.932
Wint10TotMath	.934	.008	.000	.917	.950
Spr10TotMath	.925	.010	.000	.906	.944

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = White

**Grade 6**  
**Fall Benchmark – White**

Cut score	Sensitivity	Specificity
10	0	1
12	0.006	1
13.5	0.018	1
14.5	0.036	1
15.5	0.054	0.999
16.5	0.108	0.998
17.5	0.144	0.995
18.5	0.18	0.991
19.5	0.234	0.988
20.5	0.323	0.981
21.5	0.425	0.97
22.5	0.491	0.952
23.5	0.593	0.937
24.5	0.677	0.912
25.5	0.76	0.872
<b>26.5</b>	<b>0.82</b>	<b>0.836</b>
27.5	0.862	0.795
28.5	0.934	0.756
29.5	0.946	0.704
30.5	0.946	0.636
31.5	0.964	0.591
32.5	0.988	0.533
33.5	0.994	0.467
34.5	1	0.406
35.5	1	0.353
36.5	1	0.293
37.5	1	0.253
38.5	1	0.213
39.5	1	0.175
40.5	1	0.134
41.5	1	0.101
42.5	1	0.068
43.5	1	0.049
44.5	1	0.021
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	344	314	658
	Meets or exceeds	100	1737	1837
Total		444	2051	2495

a. EthnicCd = White

**Grade 6**  
**Winter Benchmark – White**

Cut score	Sensitivity	Specificity
7	0	1
9.5	0.006	1
12	0.012	1
14	0.024	0.999
15.5	0.06	0.998
16.5	0.102	0.997
17.5	0.126	0.996
18.5	0.204	0.995
19.5	0.263	0.993
20.5	0.311	0.986
21.5	0.377	0.98
22.5	0.455	0.973
23.5	0.557	0.962
24.5	0.647	0.938
25.5	0.737	0.919
26.5	0.808	0.898
<b>27.5</b>	<b>0.856</b>	<b>0.858</b>
28.5	0.904	0.821
29.5	0.928	0.783
30.5	0.952	0.735
31.5	0.976	0.679
32.5	0.988	0.625
33.5	0.994	0.568
34.5	0.994	0.496
35.5	0.994	0.445
36.5	1	0.402
37.5	1	0.355
38.5	1	0.298
39.5	1	0.253
40.5	1	0.195
41.5	1	0.147
42.5	1	0.097
43.5	1	0.054
44.5	1	0.02
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	203	187	390
	Meets or exceeds	37	1046	1083
Total		240	1233	1473

a. EthnicCd = White

**Grade 6**  
**Spring Benchmark – White**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.006	1
13.5	0.024	1
14.5	0.036	1
15.5	0.048	1
16.5	0.066	0.997
17.5	0.102	0.995
18.5	0.156	0.994
19.5	0.222	0.991
20.5	0.257	0.989
21.5	0.323	0.986
22.5	0.365	0.984
23.5	0.407	0.975
24.5	0.467	0.971
25.5	0.533	0.966
26.5	0.569	0.958
27.5	0.635	0.952
28.5	0.701	0.937
29.5	0.725	0.918
30.5	0.76	0.894
<b>31.5</b>	<b>0.796</b>	<b>0.877</b>
32.5	0.844	0.846
33.5	0.892	0.815
34.5	0.916	0.764
35.5	0.94	0.714
36.5	0.964	0.651
37.5	0.976	0.581
38.5	0.988	0.524
39.5	0.988	0.459
40.5	0.994	0.395
41.5	1	0.33
42.5	1	0.256
43.5	1	0.161
44.5	1	0.069
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	219	202	421
	Meets or exceeds	60	1195	1255
Total		279	1397	1676

a. EthnicCd = White



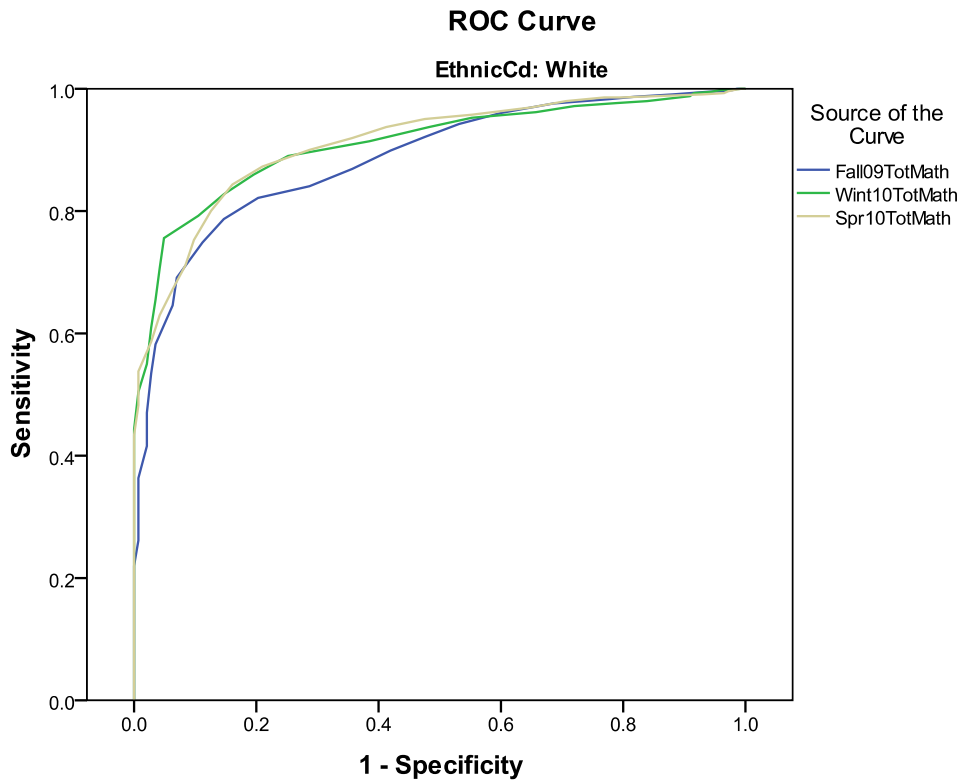
**Grade 7**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	991
Negative	143
Missing	1544

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = White



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.885	.013	.000	.861	.910
Wint10TotMath	.910	.010	.000	.890	.929
Spr10TotMath	.910	.011	.000	.889	.931

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = White

**Grade 7**  
**Fall Benchmark – White**

Cut score	Sensitivity	Specificity
7	0	1
9	0.007	1
10.5	0.014	1
11.5	0.021	0.998
12.5	0.042	0.996
13.5	0.063	0.995
14.5	0.077	0.994
15.5	0.119	0.991
16.5	0.182	0.987
17.5	0.224	0.983
18.5	0.315	0.976
19.5	0.399	0.961
20.5	0.469	0.942
21.5	0.524	0.921
22.5	0.58	0.899
23.5	0.643	0.869
24.5	0.713	0.841
25.5	0.797	0.821
<b>26.5</b>	<b>0.853</b>	<b>0.787</b>
27.5	0.888	0.749
28.5	0.93	0.691
29.5	0.937	0.646
30.5	0.965	0.582
31.5	0.972	0.535
32.5	0.979	0.47
33.5	0.979	0.416
34.5	0.993	0.363
35.5	0.993	0.311
36.5	0.993	0.261
37.5	1	0.22
38.5	1	0.19
39.5	1	0.159
40.5	1	0.131
41.5	1	0.099
42.5	1	0.067
43.5	1	0.04
44.5	1	0.013
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	291	410	701
	Meets or exceeds	64	1622	1686
Total		355	2032	2387

a. EthnicCd = White

**Grade 7**  
**Winter Benchmark – White**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.007	1
11.5	0.021	0.999
12.5	0.042	0.998
13.5	0.056	0.995
14.5	0.084	0.993
15.5	0.091	0.988
16.5	0.161	0.98
17.5	0.21	0.977
18.5	0.28	0.972
19.5	0.343	0.962
20.5	0.448	0.953
21.5	0.517	0.937
22.5	0.615	0.914
23.5	0.748	0.89
24.5	0.804	0.86
25.5	0.853	0.827
<b>26.5</b>	<b>0.895</b>	<b>0.792</b>
27.5	0.951	0.756
28.5	0.958	0.706
29.5	0.965	0.655
30.5	0.972	0.609
31.5	0.979	0.55
32.5	0.993	0.505
33.5	1	0.443
34.5	1	0.386
35.5	1	0.345
36.5	1	0.303
37.5	1	0.26
38.5	1	0.222
39.5	1	0.182
40.5	1	0.143
41.5	1	0.116
42.5	1	0.072
43.5	1	0.037
44.5	1	0.013
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	168	253	421
	Meets or exceeds	22	913	935
Total		190	1166	1356

a. EthnicCd = White

**Grade 7**  
**Spring Benchmark – White**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.007	1
12.5	0.014	0.999
13.5	0.028	0.996
14.5	0.035	0.993
15.5	0.07	0.991
16.5	0.119	0.989
17.5	0.203	0.986
18.5	0.231	0.986
19.5	0.294	0.98
20.5	0.35	0.97
21.5	0.448	0.958
22.5	0.524	0.951
23.5	0.587	0.937
24.5	0.643	0.919
25.5	0.713	0.9
<b>26.5</b>	<b>0.79</b>	<b>0.873</b>
27.5	0.839	0.844
28.5	0.874	0.8
29.5	0.902	0.753
30.5	0.916	0.711
31.5	0.937	0.672
32.5	0.958	0.63
33.5	0.972	0.586
34.5	0.993	0.538
35.5	0.993	0.482
36.5	1	0.434
37.5	1	0.374
38.5	1	0.336
39.5	1	0.293
40.5	1	0.238
41.5	1	0.184
42.5	1	0.122
43.5	1	0.077
44.5	1	0.025
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	176	163	339
	Meets or exceeds	54	1106	1160
Total		230	1269	1499

a. EthnicCd = White



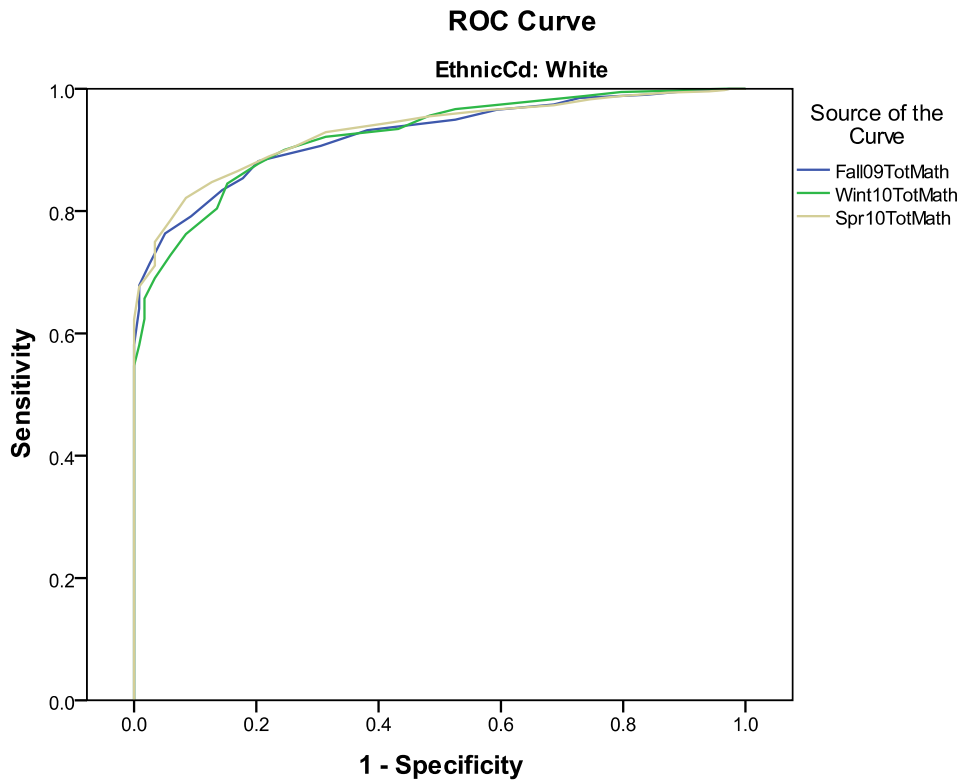
**Grade 8**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	930
Negative	118
Missing	1684

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = White



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.923	.009	.000	.905	.941
Wint10TotMath	.923	.010	.000	.903	.943
Spr10TotMath	.930	.009	.000	.913	.947

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

- a. Under the nonparametric assumption
- b. Null hypothesis: true area = 0.5
- c. EthnicCd = White

**Grade 8**  
**Fall Benchmark – White**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.008	1
12.5	0.025	1
13.5	0.059	0.997
14.5	0.102	0.996
15.5	0.161	0.99
16.5	0.271	0.985
17.5	0.314	0.974
18.5	0.407	0.966
19.5	0.475	0.949
20.5	0.619	0.932
21.5	0.695	0.906
22.5	0.797	0.882
23.5	0.822	0.854
24.5	0.856	0.834
<b>25.5</b>	<b>0.907</b>	<b>0.791</b>
26.5	0.949	0.763
27.5	0.975	0.714
28.5	0.992	0.678
29.5	0.992	0.641
30.5	1	0.582
31.5	1	0.547
32.5	1	0.502
33.5	1	0.449
34.5	1	0.394
35.5	1	0.346
36.5	1	0.301
37.5	1	0.245
38.5	1	0.197
39.5	1	0.158
40.5	1	0.135
41.5	1	0.102
42.5	1	0.072
43.5	1	0.038
44.5	1	0.022
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	248	476	724
	Meets or exceeds	23	1584	1607
Total		271	2060	2331

a. EthnicCd = White

**Grade 8**  
**Winter Benchmark – White**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.008	1
11.5	0.017	1
12.5	0.034	1
13.5	0.076	0.999
14.5	0.119	0.997
15.5	0.203	0.995
16.5	0.263	0.988
17.5	0.347	0.98
18.5	0.475	0.967
19.5	0.517	0.956
20.5	0.568	0.934
21.5	0.686	0.922
22.5	0.754	0.9
23.5	0.797	0.877
24.5	0.847	0.845
<b>25.5</b>	<b>0.864</b>	<b>0.804</b>
26.5	0.915	0.762
27.5	0.941	0.728
28.5	0.966	0.69
29.5	0.983	0.657
30.5	0.983	0.624
31.5	0.992	0.581
32.5	1	0.547
33.5	1	0.495
34.5	1	0.467
35.5	1	0.425
36.5	1	0.387
37.5	1	0.338
38.5	1	0.288
39.5	1	0.247
40.5	1	0.202
41.5	1	0.165
42.5	1	0.115
43.5	1	0.067
44.5	1	0.026
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	132	224	356
	Meets or exceeds	19	923	942
Total		151	1147	1298

a. EthnicCd = White

**Grade 8**  
**Spring Benchmark – White**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.008	1
11.5	0.025	1
12.5	0.034	0.998
13.5	0.059	0.996
14.5	0.127	0.994
15.5	0.203	0.988
16.5	0.254	0.983
17.5	0.314	0.973
18.5	0.415	0.966
19.5	0.517	0.955
20.5	0.576	0.945
21.5	0.686	0.929
22.5	0.737	0.905
23.5	0.78	0.889
24.5	0.831	0.866
25.5	0.873	0.847
26.5	0.915	0.822
<b>27.5</b>	<b>0.941</b>	<b>0.785</b>
28.5	0.966	0.749
29.5	0.966	0.711
30.5	0.992	0.676
31.5	1	0.623
32.5	1	0.576
33.5	1	0.546
34.5	1	0.478
35.5	1	0.435
36.5	1	0.38
37.5	1	0.339
38.5	1	0.283
39.5	1	0.235
40.5	1	0.192
41.5	1	0.143
42.5	1	0.105
43.5	1	0.049
44.5	1	0.018
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	167	284	451
	Meets or exceeds	14	929	943
Total		181	1213	1394

a. EthnicCd = White



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 Student Subgroup: Multiethnic
 

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**Grade 3****Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	26
Negative	3
Missing	131

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- The positive actual state is Meets or exceeds.
- EthnicCd = Multiethnic

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	4	17	21
	Meets or exceeds	1	55	56
Total		5	72	77

a. EthnicCd = Multiethnic

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	3	11	14
	Meets or exceeds	0	23	23
Total		3	34	37

a. EthnicCd = Multiethnic

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	4	15	19
	Meets or exceeds	0	49	49
Total		4	64	68

a. EthnicCd = Multiethnic

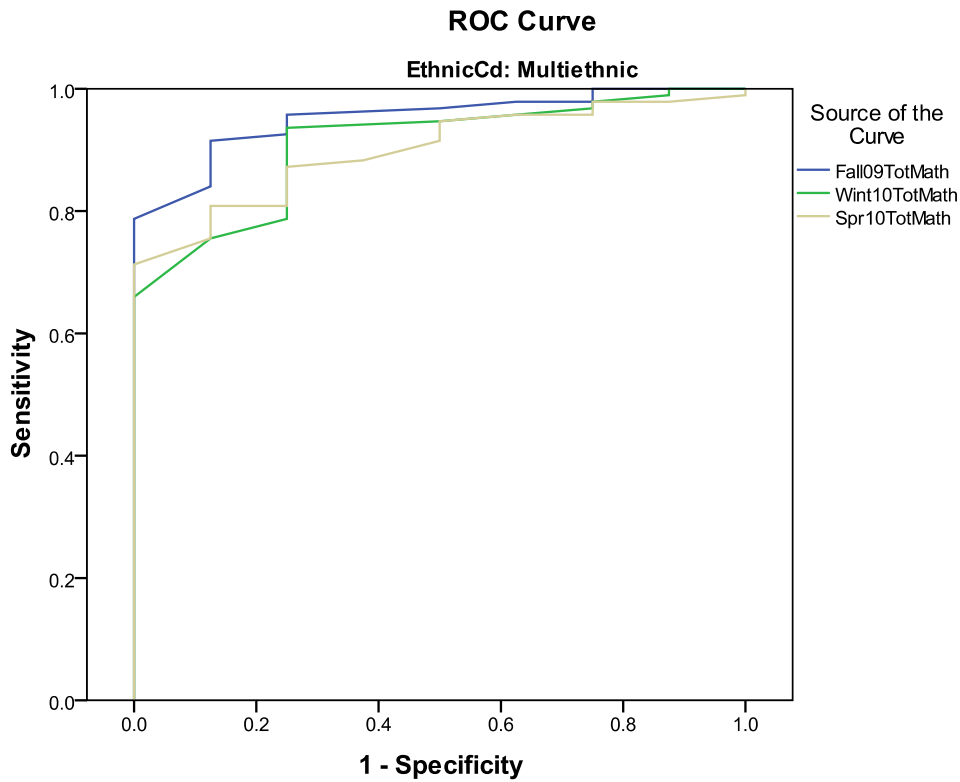
**Grade 4**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	94
Negative	8
Missing	90

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Multiethnic



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.951	.025	.000	.902	1.000
Wint10TotMath	.908	.041	.000	.827	.988
Spr10TotMath	.899	.038	.000	.825	.972

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. EthnicCd = Multiethnic

**Grade 4**  
**Fall Benchmark – Multiethnic**

Cut score	Sensitivity	Specificity
15	0	1
16.5	0.125	1
18	0.25	1
19.5	0.25	0.979
20.5	0.375	0.979
21.5	0.5	0.968
22.5	0.75	0.957
23.5	0.75	0.926
24.5	0.875	0.915
25.5	0.875	0.904
26.5	0.875	0.862
27.5	0.875	0.84
<b>28.5</b>	<b>1</b>	<b>0.787</b>
29.5	1	0.755
30.5	1	0.713
31.5	1	0.649
32.5	1	0.585
33.5	1	0.574
34.5	1	0.543
35.5	1	0.5
36.5	1	0.468
37.5	1	0.404
38.5	1	0.372
39.5	1	0.277
40.5	1	0.223
41.5	1	0.149
42.5	1	0.085
43.5	1	0.043
44.5	1	0.032
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	16	31	47
	Meets or exceeds	2	119	121
Total		18	150	168

a. EthnicCd = Multiethnic

**Grade 4  
Winter Benchmark – Multiethnic**

Cut score	Sensitivity	Specificity
16	0	1
19	0.125	1
21.5	0.125	0.989
23	0.25	0.979
24.5	0.25	0.968
25.5	0.375	0.957
26.5	0.5	0.947
27.5	0.75	0.936
28.5	0.75	0.915
29.5	0.75	0.862
<b>30.5</b>	<b>0.75</b>	<b>0.819</b>
32	0.75	0.809
33.5	0.75	0.787
34.5	0.875	0.755
35.5	1	0.66
36.5	1	0.574
37.5	1	0.489
38.5	1	0.383
39.5	1	0.277
40.5	1	0.213
41.5	1	0.16
42.5	1	0.128
43.5	1	0.085
44.5	1	0.021
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	9	24	33
	Meets or exceeds	2	85	87
Total		11	109	120

a. EthnicCd = Multiethnic

**Grade 4  
Spring Benchmark – Multiethnic**

Cut score	Sensitivity	Specificity
18	0	1
19.5	0	0.989
21	0.125	0.979
23	0.25	0.979
24.5	0.25	0.968
25.5	0.25	0.957
26.5	0.375	0.957
27.5	0.5	0.947
28.5	0.5	0.915
29.5	0.625	0.883
30.5	0.75	0.872
31.5	0.75	0.851
<b>32.5</b>	<b>0.75</b>	<b>0.809</b>
33.5	0.875	0.809
34.5	0.875	0.755
35.5	1	0.713
36.5	1	0.702
37.5	1	0.67
38.5	1	0.628
39.5	1	0.564
40.5	1	0.479
41.5	1	0.404
42.5	1	0.287
43.5	1	0.191
44.5	1	0.117
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	17	29	46
	Meets or exceeds	5	117	122
Total		22	146	168

a. EthnicCd = Multiethnic



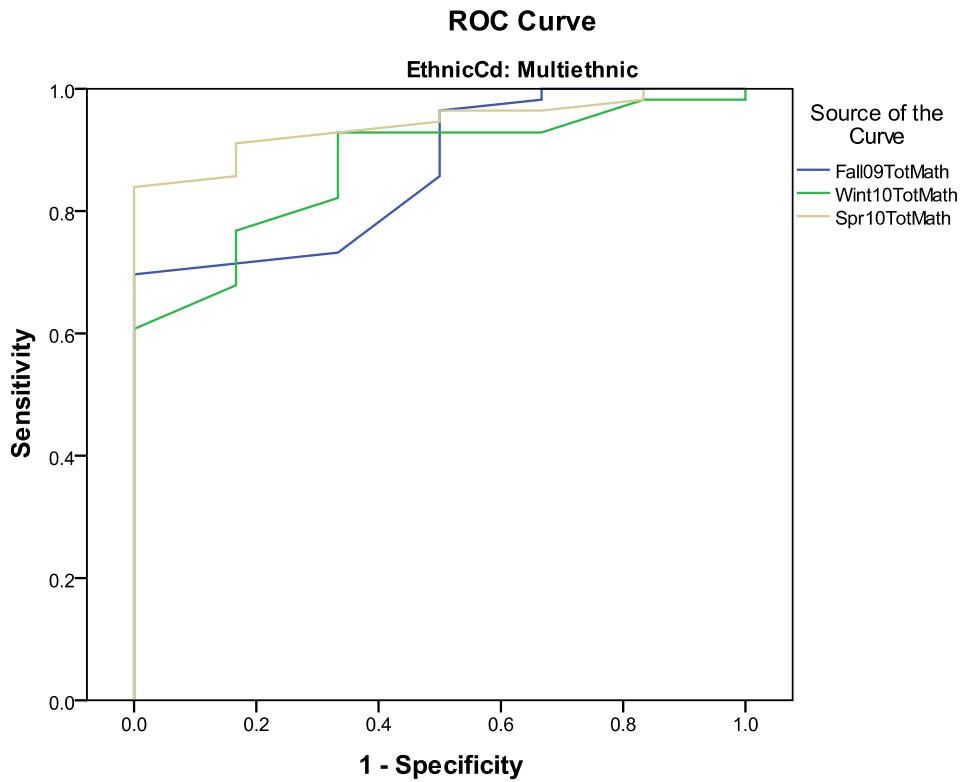
**Grade 5**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	56
Negative	6
Missing	64

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. EthnicCd = Multiethnic



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.866	.061	.003	.746	.986
Wint10TotMath	.872	.058	.003	.758	.986
Spr10TotMath	.940	.031	.000	.879	1.000

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. EthnicCd = Multiethnic

**Grade 5  
Fall Benchmark – Multiethnic**

Cut score	Specificity	Sensitivity
15	0	1
17	0.167	1
19	0.333	1
20.5	0.333	0.982
21.5	0.5	0.964
22.5	0.5	0.946
23.5	0.5	0.911
24.5	0.5	0.857
25.5	0.667	0.732
26.5	0.833	0.714
<b>27.5</b>	<b>1</b>	<b>0.696</b>
28.5	1	0.679
29.5	1	0.589
30.5	1	0.571
31.5	1	0.5
32.5	1	0.411
33.5	1	0.375
34.5	1	0.339
35.5	1	0.321
36.5	1	0.25
37.5	1	0.214
38.5	1	0.179
39.5	1	0.143
40.5	1	0.125
41.5	1	0.107
42.5	1	0.071
43.5	1	0.054
44.5	1	0.018
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	13	29	42
	Meets or exceeds	2	70	72
Total		15	99	114

a. EthnicCd = Multiethnic

**Grade 5  
Winter Benchmark – Multiethnic**

Cut score	Sensitivity	Specificity
22	0	1
23.5	0	0.982
24.5	0.167	0.982
25.5	0.333	0.929
26.5	0.667	0.929
27.5	0.667	0.911
29	0.667	0.821
30.5	0.833	0.768
<b>32</b>	<b>0.833</b>	<b>0.714</b>
33.5	0.833	0.679
34.5	1	0.607
35.5	1	0.5
36.5	1	0.411
37.5	1	0.375
38.5	1	0.321
39.5	1	0.286
40.5	1	0.268
41.5	1	0.232
42.5	1	0.161
43.5	1	0.089
44.5	1	0.018
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	8	20	28
	Meets or exceeds	1	44	45
Total		9	64	73

a. EthnicCd = Multiethnic

**Grade 5  
Spring Benchmark – Multiethnic**

Cut score	Sensitivity	Specificity
15	0	1
19	0.167	1
22.5	0.167	0.982
23.5	0.333	0.964
25.5	0.5	0.964
28	0.5	0.946
30	0.667	0.929
31.5	0.833	0.911
32.5	0.833	0.893
33.5	0.833	0.857
<b>34.5</b>	<b>1</b>	<b>0.839</b>
35.5	1	0.786
36.5	1	0.732
37.5	1	0.696
38.5	1	0.679
39.5	1	0.661
40.5	1	0.518
41.5	1	0.482
42.5	1	0.357
43.5	1	0.196
44.5	1	0.089
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	9	14	23
	Meets or exceeds	5	81	86
Total		14	95	109

a. EthnicCd = Multiethnic

**Grade 6****Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	34
Negative	3
Missing	67

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.

b. The positive actual state is Meets or exceeds.

c. EthnicCd = Multiethnic

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	12	10	22
	Meets or exceeds	10	62	72
Total		22	72	94

a. EthnicCd = Multiethnic

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	7	10	17
	Meets or exceeds	2	29	31
Total		9	39	48

a. EthnicCd = Multiethnic

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	10	10	20
	Meets or exceeds	2	43	45
Total		12	53	65

a. EthnicCd = Multiethnic

**Grade 7****Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	32
Negative	6
Missing	85

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- The positive actual state is Meets or exceeds.
- EthnicCd = Multi-Ethnic

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).



**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	18	21	39
	Meets or exceeds	1	67	68
Total		19	88	107

a. EthnicCd = Multi-Ethnic

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	7	13	20
	Meets or exceeds	1	26	27
Total		8	39	47

a. EthnicCd = Multi-Ethnic

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	8	8	16
	Meets or exceeds	2	34	36
Total		10	42	52

a. EthnicCd = Multi-Ethnic

**Grade 8****Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	23
Negative	6
Missing	99

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- The positive actual state is Meets or exceeds.
- EthnicCd = Multiethnic

*Note.* Full diagnostics not produced due to insufficient sample size ( $n < 50$ ).

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	13	23	36
	Meets or exceeds	1	69	70
Total		14	92	106

a. EthnicCd = Multiethnic

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	7	4	11
	Meets or exceeds	1	25	26
Total		8	29	37

a. EthnicCd = Multiethnic

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	7	9	16
	Meets or exceeds	0	26	26
Total		7	35	42

a. EthnicCd = Multiethnic

Student Subgroup: Non-ELL

Grade 3

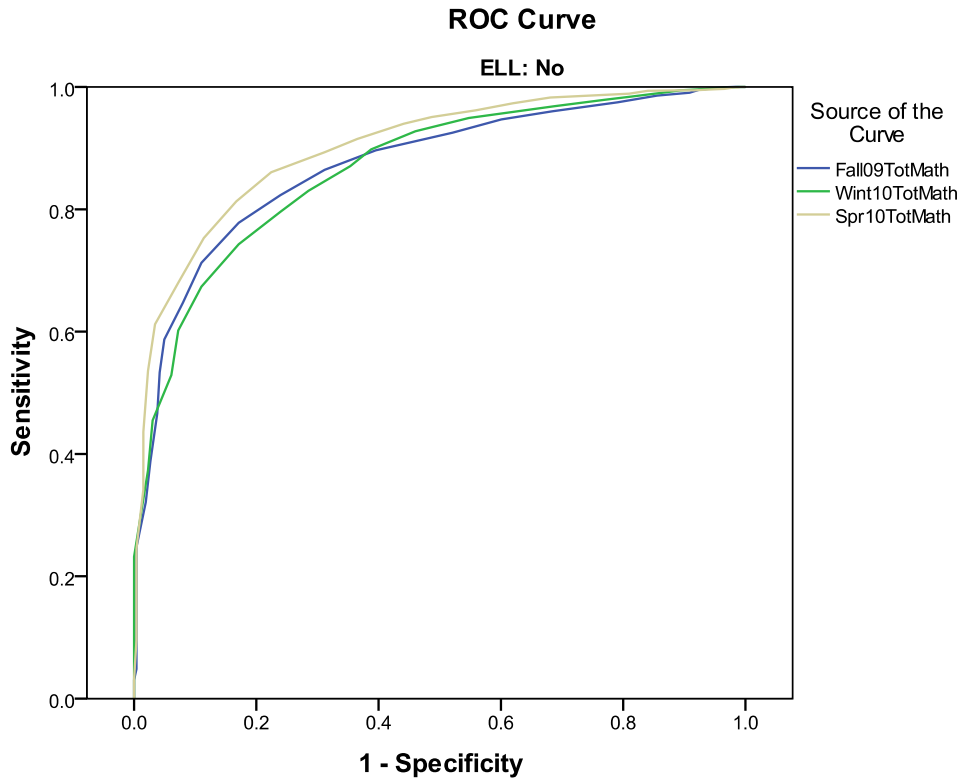
Case Processing Summary<sup>b</sup>

PLC	Valid N (listwise)
Positive <sup>a</sup>	1284
Negative	263
Missing	2548

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. ELL = No



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.871	.011	.000	.850	.893
Wint10TotMath	.868	.011	.000	.846	.890
Spr10TotMath	.900	.010	.000	.882	.919

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = No

**Grade 3**  
**Fall Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.008	1
12.5	0.011	1
13.5	0.023	1
14.5	0.038	0.999
15.5	0.061	0.997
16.5	0.076	0.995
17.5	0.091	0.991
18.5	0.144	0.986
19.5	0.209	0.975
20.5	0.316	0.96
21.5	0.399	0.947
22.5	0.479	0.925
23.5	0.605	0.896
24.5	0.688	0.864
25.5	0.76	0.823
<b>26.5</b>	<b>0.829</b>	<b>0.778</b>
27.5	0.89	0.713
28.5	0.92	0.647
29.5	0.951	0.587
30.5	0.958	0.533
31.5	0.962	0.467
32.5	0.973	0.388
33.5	0.981	0.321
34.5	0.996	0.248
35.5	0.996	0.195
36.5	0.996	0.161
37.5	0.996	0.118
38.5	0.996	0.079
39.5	0.996	0.048
40.5	1	0.03
41.5	1	0.023
42.5	1	0.012
43.5	1	0.002
44.5	1	0.002
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	363	515	878
	Meets or exceeds	102	2009	2111
Total		465	2524	2989

a. ELL = No

**Grade 3**  
**Winter Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
11	0	1
13	0.004	1
14.5	0.011	1
15.5	0.027	0.999
16.5	0.038	0.998
17.5	0.053	0.998
18.5	0.076	0.996
19.5	0.106	0.995
20.5	0.129	0.991
21.5	0.186	0.984
22.5	0.232	0.979
23.5	0.312	0.969
24.5	0.373	0.96
25.5	0.452	0.949
26.5	0.54	0.928
27.5	0.612	0.898
28.5	0.646	0.871
29.5	0.715	0.83
30.5	0.76	0.796
<b>31.5</b>	<b>0.829</b>	<b>0.743</b>
32.5	0.89	0.674
33.5	0.928	0.602
34.5	0.939	0.529
35.5	0.97	0.455
36.5	0.977	0.373
37.5	0.989	0.304
38.5	1	0.232
39.5	1	0.167
40.5	1	0.121
41.5	1	0.083
42.5	1	0.049
43.5	1	0.026
44.5	1	0.009
46	1	0



**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	274	429	703
	Meets or exceeds	54	1144	1198
Total		328	1573	1901

a. ELL = No

**Grade 3**  
**Spring Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
12	0	1
14.5	0.004	1
16.5	0.008	1
17.5	0.011	0.999
18.5	0.019	0.999
19.5	0.034	0.997
20.5	0.053	0.996
21.5	0.084	0.995
22.5	0.103	0.995
23.5	0.16	0.994
24.5	0.19	0.989
25.5	0.255	0.986
26.5	0.319	0.983
27.5	0.38	0.974
28.5	0.441	0.962
29.5	0.513	0.951
30.5	0.559	0.94
31.5	0.635	0.915
32.5	0.688	0.893
33.5	0.776	0.861
34.5	0.833	0.813
<b>35.5</b>	<b>0.886</b>	<b>0.753</b>
36.5	0.928	0.68
37.5	0.966	0.612
38.5	0.977	0.536
39.5	0.985	0.436
40.5	0.985	0.342
41.5	0.996	0.245
42.5	0.996	0.164
43.5	0.996	0.095
44.5	1	0.033
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	404	515	919
	Meets or exceeds	52	1896	1948
Total		456	2411	2867

a. ELL = No

**Grade 4**

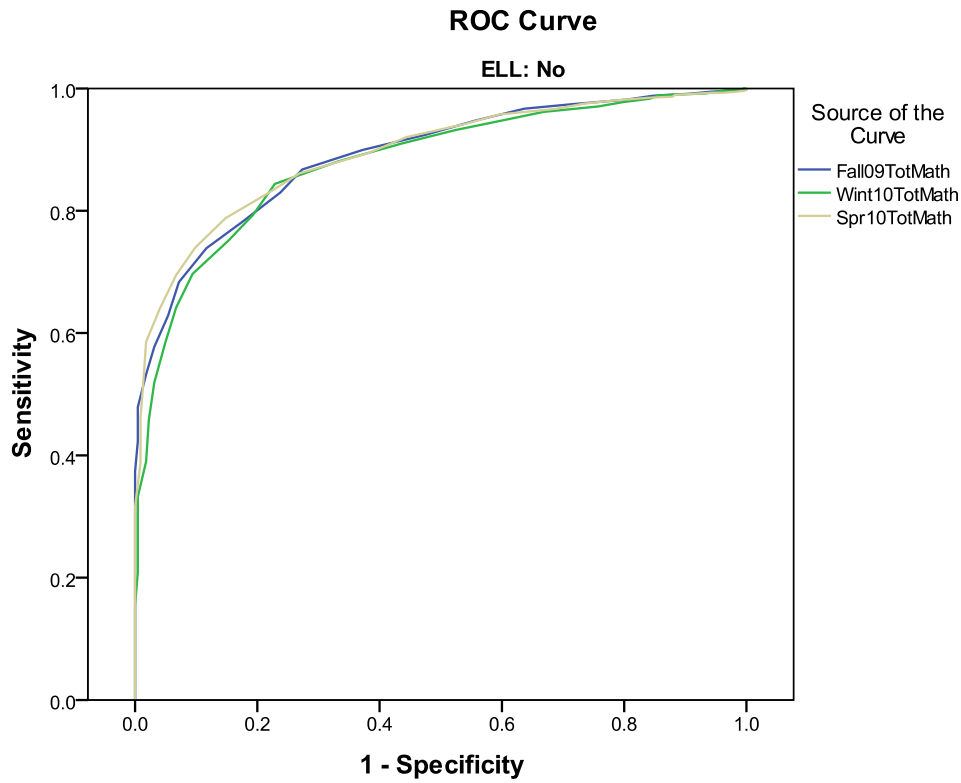
**Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	1692
Negative	223
Missing	2156

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. ELL = No



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.890	.009	.000	.872	.908
Wint10TotMath	.879	.010	.000	.859	.899
Spr10TotMath	.893	.009	.000	.875	.911

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = No

**Grade 4**  
**Fall Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
7	0	1
9.5	0	0.999
11.5	0.004	0.999
12.5	0.009	0.999
13.5	0.009	0.998
14.5	0.013	0.998
15.5	0.022	0.997
16.5	0.058	0.995
17.5	0.094	0.991
18.5	0.152	0.988
19.5	0.197	0.982
20.5	0.283	0.975
21.5	0.363	0.967
22.5	0.444	0.947
23.5	0.525	0.924
24.5	0.628	0.9
25.5	0.726	0.868
26.5	0.762	0.83
27.5	0.825	0.781
<b>28.5</b>	<b>0.883</b>	<b>0.739</b>
29.5	0.928	0.683
30.5	0.946	0.628
31.5	0.969	0.577
32.5	0.982	0.533
33.5	0.996	0.479
34.5	0.996	0.423
35.5	1	0.374
36.5	1	0.326
37.5	1	0.272
38.5	1	0.219
39.5	1	0.161
40.5	1	0.118
41.5	1	0.074
42.5	1	0.044
43.5	1	0.022
44.5	1	0.007
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	373	729	1102
	Meets or exceeds	63	2302	2365
Total		436	3031	3467

a. ELL = No

**Grade 4**  
**Winter Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.004	1
13.5	0.004	0.999
14.5	0.004	0.999
15.5	0.009	0.999
16.5	0.018	0.998
17.5	0.036	0.996
18.5	0.067	0.992
19.5	0.143	0.989
20.5	0.157	0.983
21.5	0.202	0.978
22.5	0.242	0.97
23.5	0.332	0.962
24.5	0.395	0.949
25.5	0.475	0.932
26.5	0.565	0.91
27.5	0.668	0.881
28.5	0.771	0.844
29.5	0.807	0.793
<b>30.5</b>	<b>0.848</b>	<b>0.751</b>
31.5	0.906	0.697
32.5	0.933	0.642
33.5	0.951	0.585
34.5	0.969	0.519
35.5	0.978	0.458
36.5	0.982	0.39
37.5	0.996	0.332
38.5	0.996	0.271
39.5	0.996	0.208
40.5	1	0.155
41.5	1	0.1
42.5	1	0.063
43.5	1	0.034
44.5	1	0.011
46	1	0



**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	284	599	883
	Meets or exceeds	42	1614	1656
Total		326	2213	2539

a. ELL = No

**Grade 4**  
**Spring Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
9	0	1
11.5	0	0.999
14	0	0.998
15.5	0.004	0.996
16.5	0.022	0.994
17.5	0.04	0.993
18.5	0.058	0.993
19.5	0.076	0.992
20.5	0.117	0.989
21.5	0.121	0.986
22.5	0.161	0.985
23.5	0.22	0.98
24.5	0.265	0.975
25.5	0.314	0.966
26.5	0.404	0.957
27.5	0.462	0.941
28.5	0.556	0.92
29.5	0.619	0.894
30.5	0.731	0.861
31.5	0.785	0.827
<b>32.5</b>	<b>0.852</b>	<b>0.788</b>
33.5	0.901	0.74
34.5	0.933	0.695
35.5	0.96	0.639
36.5	0.982	0.586
37.5	0.987	0.521
38.5	0.991	0.462
39.5	0.991	0.388
40.5	1	0.316
41.5	1	0.253
42.5	1	0.183
43.5	1	0.111
44.5	1	0.042
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	382	591	973
	Meets or exceeds	78	2322	2400
Total		460	2913	3373

a. ELL = No

**Grade 5**

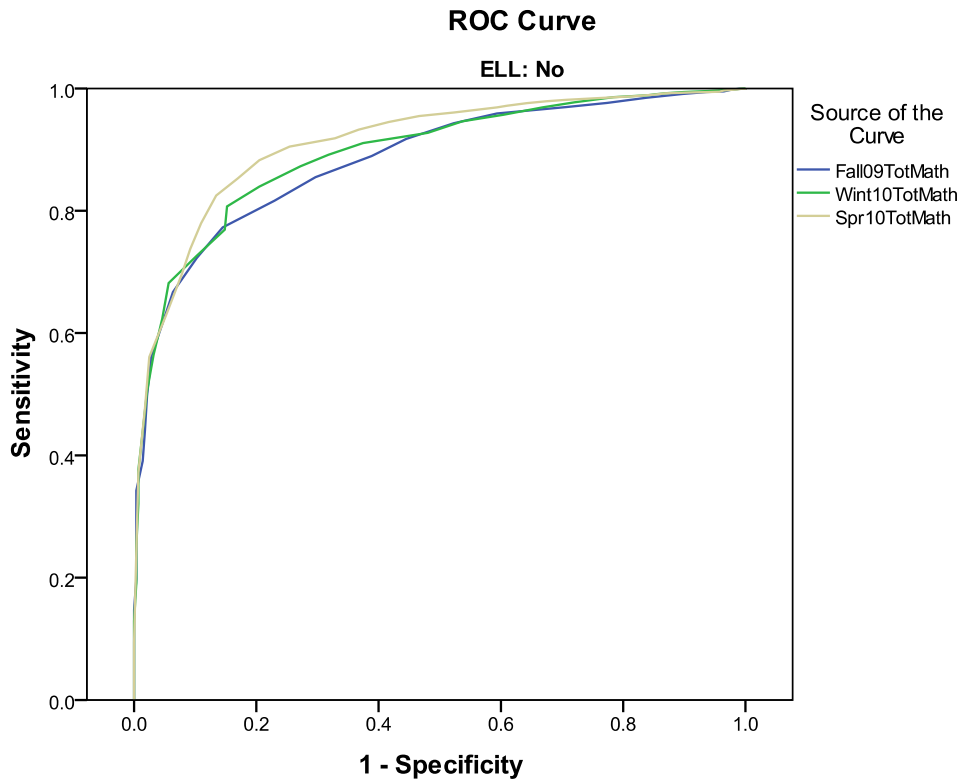
**Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	1901
Negative	283
Missing	1987

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. ELL = No



Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.884	.009	.000	.867	.902
Wint10TotMath	.894	.009	.000	.877	.911
Spr10TotMath	.911	.008	.000	.895	.927

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = No

**Grade 5**  
**Fall Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0	0.999
13.5	0.011	0.999
14.5	0.021	0.998
15.5	0.035	0.995
16.5	0.064	0.994
17.5	0.102	0.991
18.5	0.163	0.985
19.5	0.226	0.976
20.5	0.293	0.969
21.5	0.406	0.959
22.5	0.477	0.943
23.5	0.555	0.917
24.5	0.611	0.89
25.5	0.703	0.855
26.5	0.77	0.816
<b>27.5</b>	<b>0.855</b>	<b>0.773</b>
28.5	0.898	0.723
29.5	0.936	0.667
30.5	0.954	0.614
31.5	0.972	0.562
32.5	0.979	0.497
33.5	0.982	0.441
34.5	0.986	0.391
35.5	0.996	0.342
36.5	0.996	0.299
37.5	0.996	0.24
38.5	0.996	0.198
39.5	1	0.147
40.5	1	0.107
41.5	1	0.074
42.5	1	0.043
43.5	1	0.023
44.5	1	0.008
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	409	683	1092
	Meets or exceeds	89	2500	2589
Total		498	3183	3681

a. ELL = No

**Grade 5**  
**Winter Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.004	1
14.5	0.007	1
15.5	0.021	0.998
16.5	0.035	0.997
17.5	0.067	0.995
18.5	0.113	0.994
19.5	0.159	0.989
20.5	0.216	0.986
21.5	0.279	0.977
22.5	0.332	0.969
23.5	0.396	0.957
24.5	0.463	0.946
25.5	0.519	0.927
26.5	0.625	0.911
27.5	0.682	0.892
28.5	0.728	0.873
29.5	0.795	0.84
30.5	0.848	0.807
<b>31.5</b>	<b>0.852</b>	<b>0.769</b>
32.5	0.898	0.726
33.5	0.943	0.682
34.5	0.954	0.623
35.5	0.968	0.564
36.5	0.979	0.504
37.5	0.986	0.439
38.5	0.993	0.377
39.5	0.993	0.321
40.5	0.996	0.251
41.5	0.996	0.191
42.5	1	0.129
43.5	1	0.069
44.5	1	0.03
46	1	0



**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	311	584	895
	Meets or exceeds	48	1711	1759
Total		359	2295	2654

a. ELL = No

**Grade 5**  
**Spring Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0	0.999
13.5	0.007	0.999
14.5	0.014	0.998
15.5	0.021	0.998
16.5	0.035	0.997
17.5	0.042	0.995
18.5	0.06	0.994
19.5	0.085	0.994
20.5	0.131	0.992
21.5	0.148	0.99
22.5	0.208	0.986
23.5	0.269	0.983
24.5	0.304	0.981
25.5	0.36	0.975
26.5	0.406	0.969
27.5	0.477	0.961
28.5	0.534	0.955
29.5	0.583	0.945
30.5	0.633	0.933
31.5	0.671	0.918
32.5	0.746	0.905
33.5	0.795	0.883
<b>34.5</b>	<b>0.83</b>	<b>0.853</b>
35.5	0.866	0.825
36.5	0.89	0.78
37.5	0.908	0.738
38.5	0.922	0.695
39.5	0.947	0.631
40.5	0.975	0.561
41.5	0.982	0.477
42.5	0.993	0.372
43.5	0.996	0.243
44.5	1	0.095
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	377	419	796
	Meets or exceeds	108	2620	2728
Total		485	3039	3524

a. ELL = No

**Grade 6**

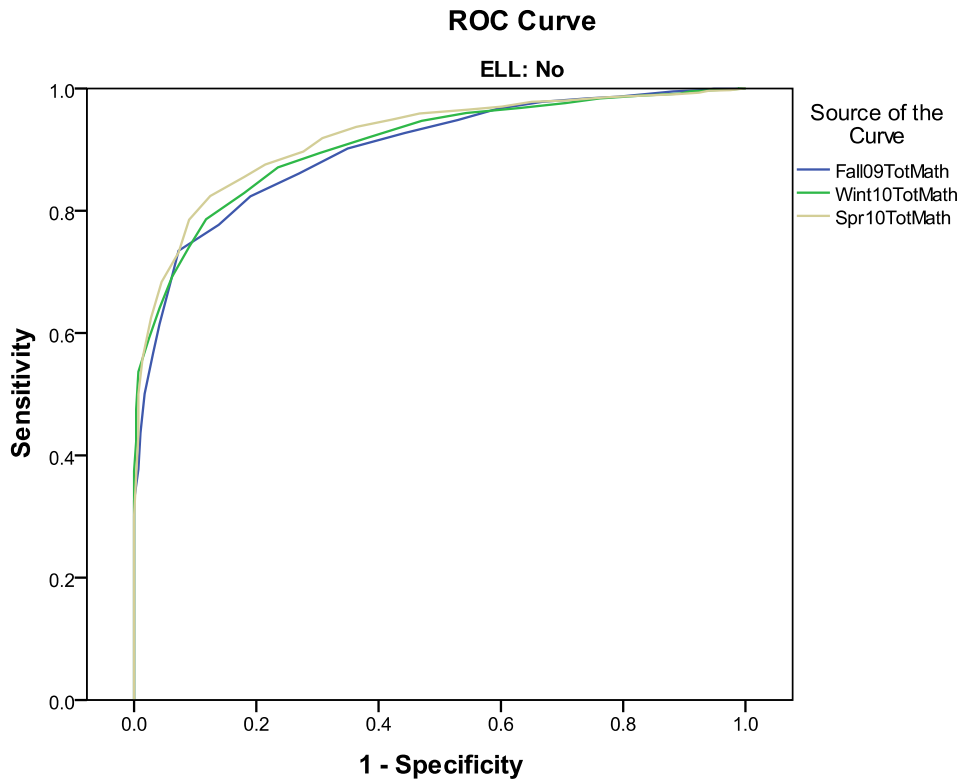
**Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	1416
Negative	289
Missing	2461

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. ELL = No



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.899	.009	.000	.882	.916
Wint10TotMath	.907	.008	.000	.892	.923
Spr10TotMath	.919	.008	.000	.904	.933

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = No

**Grade 6**  
**Fall Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.003	1
12.5	0.01	0.999
13.5	0.024	0.999
14.5	0.052	0.999
15.5	0.069	0.997
16.5	0.118	0.995
17.5	0.156	0.992
18.5	0.208	0.987
19.5	0.26	0.984
20.5	0.332	0.978
21.5	0.405	0.967
22.5	0.471	0.948
23.5	0.557	0.927
24.5	0.651	0.902
25.5	0.73	0.861
<b>26.5</b>	<b>0.81</b>	<b>0.823</b>
27.5	0.862	0.777
28.5	0.927	0.734
29.5	0.941	0.68
30.5	0.958	0.614
31.5	0.969	0.567
32.5	0.983	0.501
33.5	0.99	0.436
34.5	0.993	0.377
35.5	1	0.326
36.5	1	0.272
37.5	1	0.227
38.5	1	0.193
39.5	1	0.152
40.5	1	0.119
41.5	1	0.087
42.5	1	0.059
43.5	1	0.041
44.5	1	0.018
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	544	494	1038
	Meets or exceeds	162	2423	2585
Total		706	2917	3623

a. ELL = No

**Grade 6**  
**Winter Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
7	0	1
9.5	0.003	1
11.5	0.01	1
12.5	0.01	0.999
13.5	0.021	0.999
14.5	0.024	0.999
15.5	0.052	0.997
16.5	0.09	0.995
17.5	0.107	0.992
18.5	0.173	0.988
19.5	0.239	0.984
20.5	0.294	0.976
21.5	0.367	0.968
22.5	0.457	0.96
23.5	0.529	0.947
24.5	0.616	0.92
25.5	0.696	0.895
26.5	0.765	0.871
<b>27.5</b>	<b>0.82</b>	<b>0.829</b>
28.5	0.882	0.786
29.5	0.91	0.741
30.5	0.938	0.692
31.5	0.958	0.641
32.5	0.976	0.591
33.5	0.993	0.537
34.5	0.997	0.475
35.5	0.997	0.422
36.5	1	0.374
37.5	1	0.326
38.5	1	0.269
39.5	1	0.221
40.5	1	0.169
41.5	1	0.126
42.5	1	0.08
43.5	1	0.044
44.5	1	0.017
46	1	0



**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	356	348	704
	Meets or exceeds	77	1527	1604
Total		433	1875	2308

a. ELL = No

**Grade 6**  
**Spring Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.003	1
12.5	0.014	0.999
13.5	0.024	0.997
14.5	0.052	0.996
15.5	0.059	0.996
16.5	0.076	0.993
17.5	0.111	0.991
18.5	0.159	0.989
19.5	0.208	0.987
20.5	0.232	0.985
21.5	0.294	0.98
22.5	0.349	0.978
23.5	0.398	0.97
24.5	0.453	0.965
25.5	0.533	0.959
26.5	0.578	0.949
27.5	0.637	0.937
28.5	0.692	0.919
29.5	0.723	0.897
30.5	0.785	0.876
<b>31.5</b>	<b>0.82</b>	<b>0.855</b>
32.5	0.875	0.824
33.5	0.91	0.785
34.5	0.927	0.732
35.5	0.955	0.684
36.5	0.972	0.625
37.5	0.986	0.559
38.5	0.993	0.5
39.5	0.993	0.434
40.5	0.997	0.367
41.5	1	0.301
42.5	1	0.229
43.5	1	0.148
44.5	1	0.062
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	373	338	711
	Meets or exceeds	90	1714	1804
Total		463	2052	2515

a. ELL = No

**Grade 7**

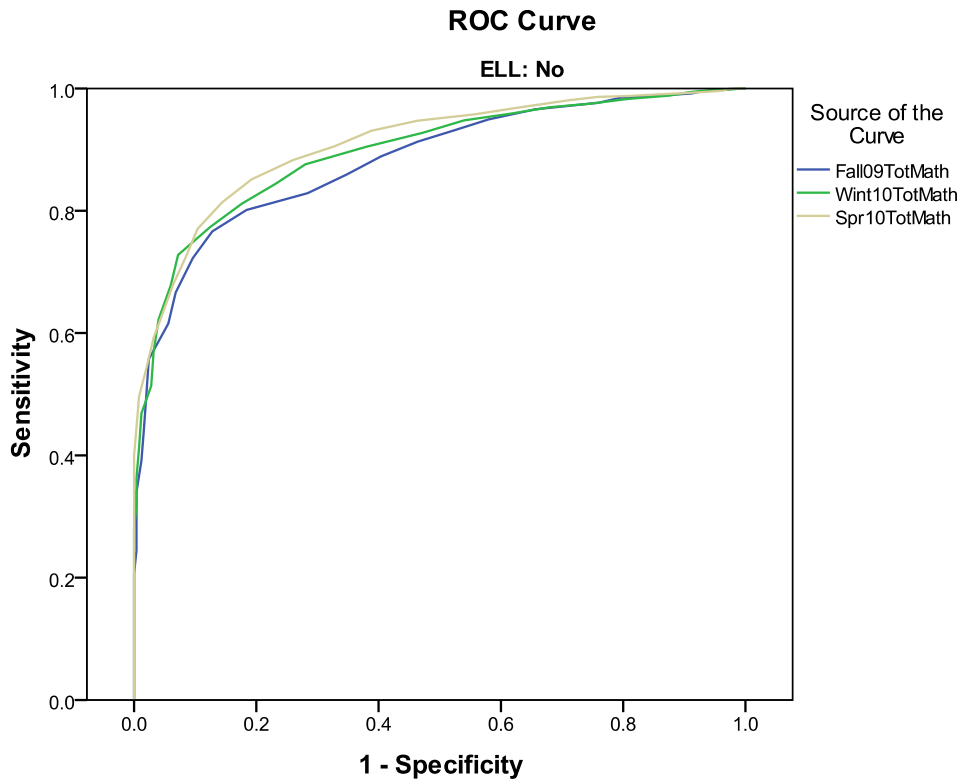
**Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	1459
Negative	250
Missing	2308

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. ELL = No



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.881	.010	.000	.862	.900
Wint10TotMath	.895	.009	.000	.877	.913
Spr10TotMath	.908	.008	.000	.891	.924

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = No

**Grade 7**  
**Fall Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
7	0	1
8.5	0.004	1
9.5	0.012	0.999
10.5	0.024	0.999
11.5	0.032	0.999
12.5	0.048	0.997
13.5	0.072	0.995
14.5	0.088	0.992
15.5	0.14	0.988
16.5	0.204	0.985
17.5	0.24	0.977
18.5	0.344	0.966
19.5	0.42	0.949
20.5	0.476	0.931
21.5	0.536	0.913
22.5	0.596	0.889
23.5	0.652	0.859
24.5	0.716	0.829
25.5	0.816	0.801
<b>26.5</b>	<b>0.872</b>	<b>0.766</b>
27.5	0.904	0.722
28.5	0.932	0.666
29.5	0.944	0.615
30.5	0.976	0.557
31.5	0.98	0.5
32.5	0.984	0.441
33.5	0.988	0.391
34.5	0.996	0.34
35.5	0.996	0.289
36.5	0.996	0.245
37.5	1	0.206
38.5	1	0.175
39.5	1	0.143
40.5	1	0.113
41.5	1	0.085
42.5	1	0.057
43.5	1	0.037
44.5	1	0.013
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	485	625	1110
	Meets or exceeds	85	2246	2331
Total		570	2871	3441

a. ELL = No

**Grade 7**  
**Winter Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.008	1
11.5	0.02	0.999
12.5	0.036	0.998
13.5	0.072	0.996
14.5	0.092	0.994
15.5	0.124	0.988
16.5	0.192	0.983
17.5	0.252	0.975
18.5	0.32	0.969
19.5	0.384	0.959
20.5	0.46	0.948
21.5	0.528	0.927
22.5	0.62	0.905
23.5	0.72	0.876
24.5	0.768	0.844
25.5	0.824	0.812
<b>26.5</b>	<b>0.876</b>	<b>0.773</b>
27.5	0.928	0.728
28.5	0.94	0.678
29.5	0.96	0.622
30.5	0.968	0.569
31.5	0.972	0.513
32.5	0.988	0.469
33.5	0.992	0.412
34.5	0.996	0.363
35.5	0.996	0.319
36.5	1	0.279
37.5	1	0.24
38.5	1	0.203
39.5	1	0.167
40.5	1	0.13
41.5	1	0.102
42.5	1	0.062
43.5	1	0.032
44.5	1	0.01
46	1	0



**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	302	402	704
	Meets or exceeds	39	1333	1372
Total		341	1735	2076

a. ELL = No

**Grade 7**  
**Spring Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
8	0	1
9.5	0.004	1
10.5	0.008	1
11.5	0.012	1
12.5	0.028	0.999
13.5	0.036	0.997
14.5	0.06	0.995
15.5	0.096	0.992
16.5	0.14	0.99
17.5	0.192	0.988
18.5	0.24	0.986
19.5	0.288	0.981
20.5	0.364	0.97
21.5	0.444	0.958
22.5	0.536	0.947
23.5	0.612	0.931
24.5	0.672	0.905
25.5	0.74	0.883
<b>26.5</b>	<b>0.808</b>	<b>0.851</b>
27.5	0.856	0.814
28.5	0.896	0.77
29.5	0.916	0.723
30.5	0.936	0.68
31.5	0.952	0.636
32.5	0.968	0.592
33.5	0.98	0.542
34.5	0.992	0.496
35.5	0.996	0.446
36.5	1	0.4
37.5	1	0.347
38.5	1	0.304
39.5	1	0.257
40.5	1	0.212
41.5	1	0.162
42.5	1	0.107
43.5	1	0.064
44.5	1	0.024
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	301	281	582
	Meets or exceeds	77	1578	1655
Total		378	1859	2237

a. ELL = No

**Grade 8**

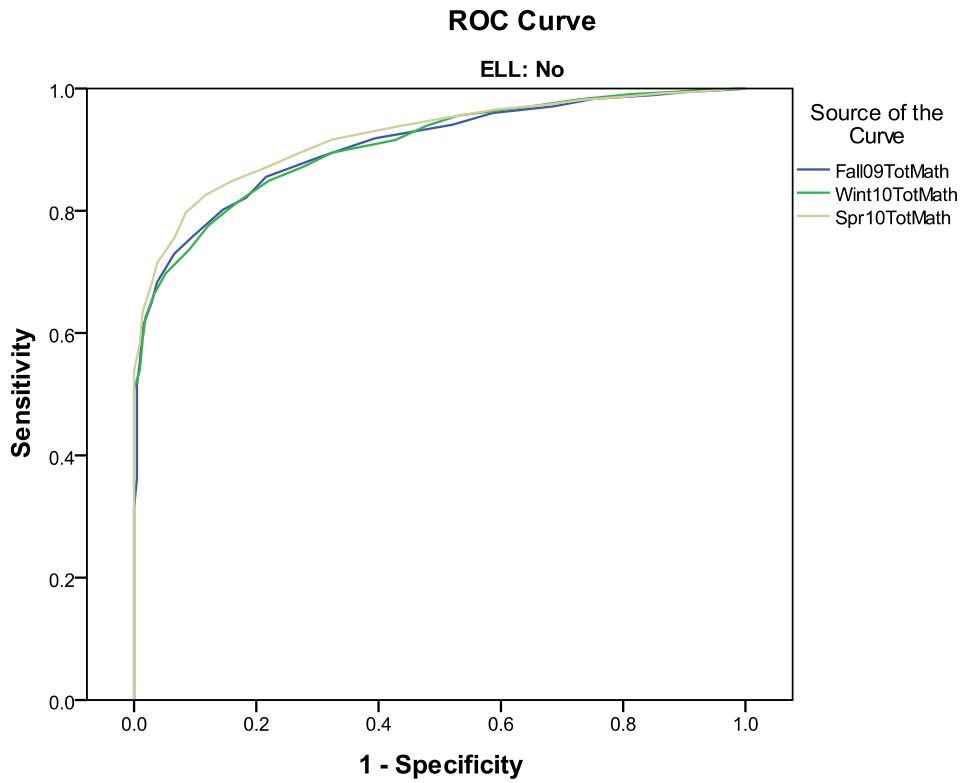
**Case Processing Summary<sup>b</sup>**

PLC	Valid N (listwise)
Positive <sup>a</sup>	1398
Negative	213
Missing	2574

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

a. The positive actual state is Meets or exceeds.

b. ELL = No



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.906	.009	.000	.889	.923
Wint10TotMath	.906	.008	.000	.889	.922
Spr10TotMath	.921	.008	.000	.906	.935

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = No

**Grade 8**  
**Fall Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.005	1
12.5	0.019	0.999
13.5	0.047	0.996
14.5	0.094	0.994
15.5	0.15	0.989
16.5	0.249	0.983
17.5	0.315	0.971
18.5	0.413	0.96
19.5	0.479	0.941
20.5	0.606	0.918
21.5	0.695	0.888
22.5	0.784	0.856
23.5	0.817	0.821
24.5	0.854	0.802
<b>25.5</b>	<b>0.901</b>	<b>0.76</b>
26.5	0.934	0.73
27.5	0.962	0.683
28.5	0.972	0.649
29.5	0.986	0.61
30.5	0.991	0.552
31.5	0.995	0.516
32.5	0.995	0.471
33.5	0.995	0.418
34.5	0.995	0.363
35.5	1	0.315
36.5	1	0.274
37.5	1	0.226
38.5	1	0.182
39.5	1	0.147
40.5	1	0.123
41.5	1	0.094
42.5	1	0.066
43.5	1	0.034
44.5	1	0.02
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	452	729	1181
	Meets or exceeds	40	2213	2253
Total		492	2942	3434

a. ELL = No

**Grade 8**  
**Winter Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.005	0.999
11.5	0.009	0.999
12.5	0.033	0.998
13.5	0.08	0.997
14.5	0.117	0.994
15.5	0.188	0.991
16.5	0.272	0.982
17.5	0.352	0.971
18.5	0.469	0.956
19.5	0.521	0.939
20.5	0.573	0.916
21.5	0.676	0.895
22.5	0.723	0.872
23.5	0.779	0.849
24.5	0.831	0.814
<b>25.5</b>	<b>0.878</b>	<b>0.776</b>
26.5	0.911	0.735
27.5	0.948	0.697
28.5	0.967	0.664
29.5	0.981	0.627
30.5	0.986	0.589
31.5	0.991	0.539
32.5	1	0.508
33.5	1	0.462
34.5	1	0.433
35.5	1	0.393
36.5	1	0.358
37.5	1	0.312
38.5	1	0.269
39.5	1	0.23
40.5	1	0.186
41.5	1	0.149
42.5	1	0.104
43.5	1	0.06
44.5	1	0.023
46	1	0



**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	264	390	654
	Meets or exceeds	30	1348	1378
Total		294	1738	2032

a. ELL = No

**Grade 8**  
**Spring Benchmark – Non-ELL**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.005	1
11.5	0.028	0.999
12.5	0.042	0.997
13.5	0.075	0.995
14.5	0.136	0.992
15.5	0.197	0.986
16.5	0.268	0.981
17.5	0.324	0.974
18.5	0.408	0.966
19.5	0.498	0.951
20.5	0.573	0.937
21.5	0.676	0.916
22.5	0.732	0.893
23.5	0.779	0.873
24.5	0.84	0.848
25.5	0.883	0.826
26.5	0.915	0.797
<b>27.5</b>	<b>0.934</b>	<b>0.755</b>
28.5	0.962	0.715
29.5	0.972	0.679
30.5	0.986	0.636
31.5	0.991	0.582
32.5	1	0.539
33.5	1	0.502
34.5	1	0.445
35.5	1	0.405
36.5	1	0.352
37.5	1	0.305
38.5	1	0.253
39.5	1	0.215
40.5	1	0.178
41.5	1	0.131
42.5	1	0.089
43.5	1	0.044
44.5	1	0.016
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	301	460	761
	Meets or exceeds	23	1354	1377
Total		324	1814	2138

a. ELL = No

Student Subgroup: ELL

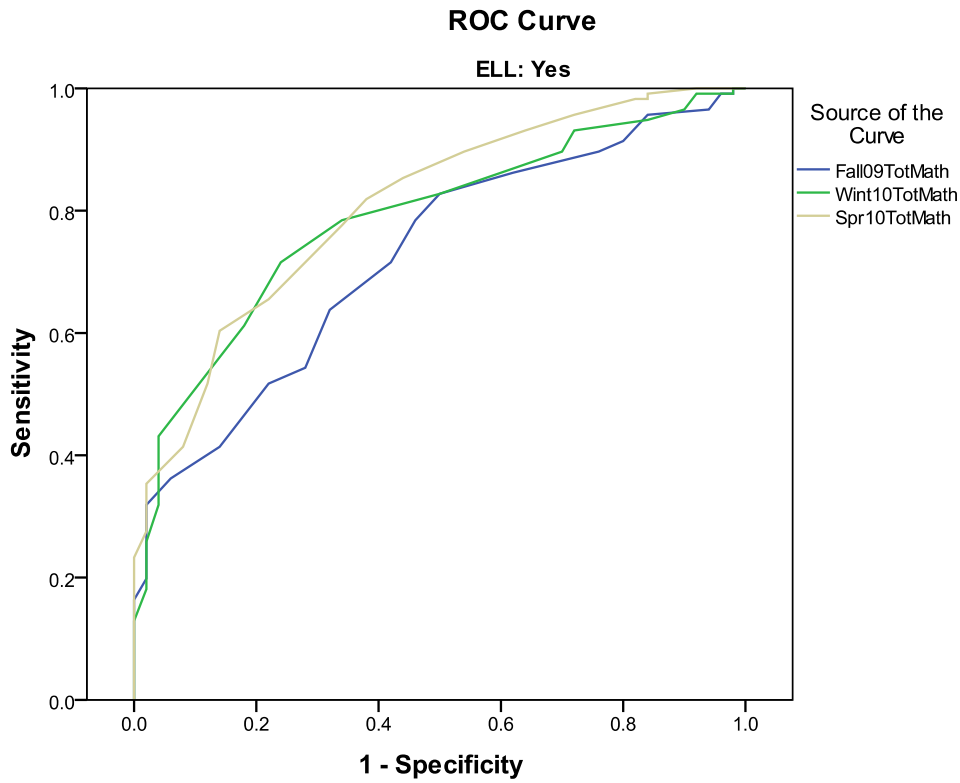
Grade 3

Case Processing Summary<sup>c</sup>

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	116
Negative	50
Missing	265

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. ELL = Yes



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.724	.041	.000	.645	.804
Wint10TotMath	.786	.036	.000	.715	.857
Spr10TotMath	.807	.035	.000	.738	.875

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = Yes

**Grade 3  
Fall Benchmark – ELL**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.02	1
14.5	0.02	0.991
15.5	0.04	0.991
16.5	0.06	0.966
17.5	0.16	0.957
18.5	0.2	0.914
19.5	0.24	0.897
20.5	0.38	0.862
21.5	0.5	0.828
22.5	0.54	0.784
23.5	0.58	0.716
24.5	0.68	0.638
25.5	0.72	0.543
<b>26.5</b>	<b>0.78</b>	<b>0.517</b>
27.5	0.86	0.414
28.5	0.94	0.362
29.5	0.98	0.319
30.5	0.98	0.259
31.5	0.98	0.198
32.5	1	0.164
33.5	1	0.138
34.5	1	0.069
35.5	1	0.043
36.5	1	0.026
38.5	1	0.009
41	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	91	98	189
	Meets or exceeds	21	122	143
Total		112	220	332

a. ELL = Yes

**Grade 3  
Winter Benchmark – ELL**

Cut score	Sensitivity	Specificity
12	0	1
14.5	0.02	1
16.5	0.02	0.991
18	0.08	0.991
19.5	0.1	0.966
20.5	0.16	0.948
21.5	0.28	0.931
22.5	0.3	0.897
23.5	0.4	0.862
24.5	0.5	0.828
25.5	0.66	0.784
26.5	0.76	0.716
27.5	0.82	0.612
28.5	0.86	0.56
29.5	0.9	0.509
30.5	0.96	0.431
<b>31.5</b>	<b>0.96</b>	<b>0.319</b>
32.5	0.98	0.259
33.5	0.98	0.207
34.5	0.98	0.181
35.5	1	0.129
36.5	1	0.078
37.5	1	0.06
38.5	1	0.052
39.5	1	0.034
40.5	1	0.026
41.5	1	0.017
43	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	78	119	197
	Meets or exceeds	5	50	55
Total		83	169	252

a. ELL = Yes

**Grade 3  
Spring Benchmark – ELL**

Cut score	Sensitivity	Specificity
15	0	1
17.5	0.02	1
19.5	0.04	1
20.5	0.08	1
21.5	0.16	0.991
22.5	0.16	0.983
23.5	0.18	0.983
24.5	0.28	0.957
25.5	0.36	0.931
26.5	0.46	0.897
27.5	0.56	0.853
28.5	0.62	0.819
29.5	0.66	0.776
30.5	0.72	0.716
31.5	0.78	0.655
32.5	0.86	0.603
33.5	0.88	0.517
34.5	0.92	0.414
<b>35.5</b>	<b>0.98</b>	<b>0.353</b>
36.5	0.98	0.276
37.5	1	0.233
38.5	1	0.19
39.5	1	0.121
40.5	1	0.052
41.5	1	0.034
42.5	1	0.017
44	1	0.009
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	87	99	186
	Meets or exceeds	5	75	80
Total		92	174	266

a. ELL = Yes



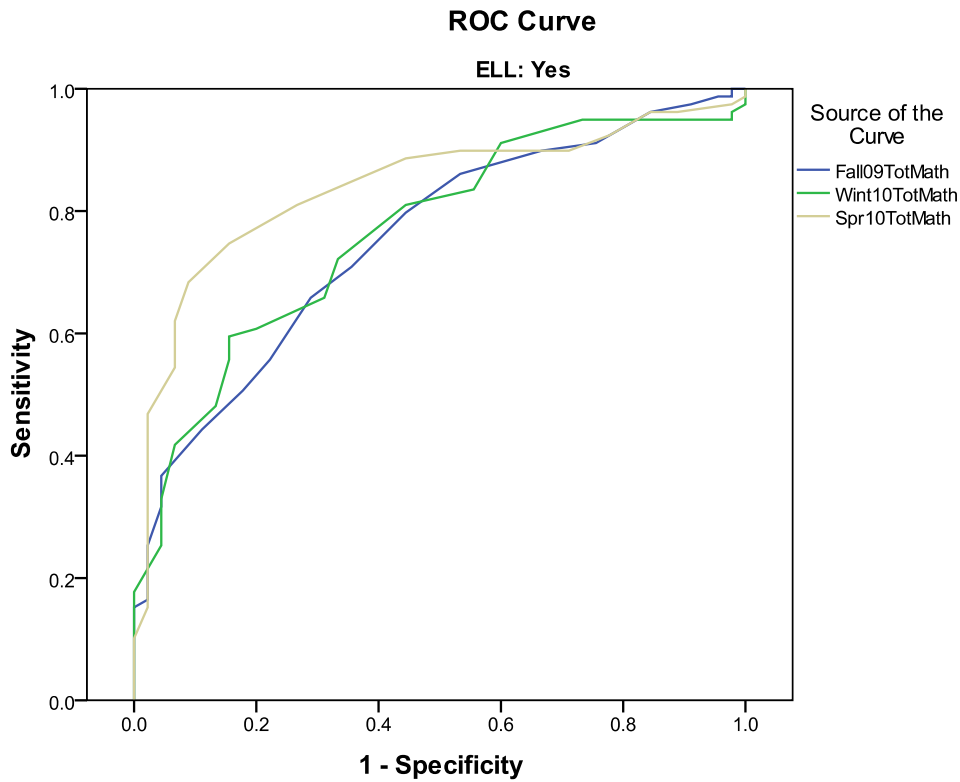
**Grade 4**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	79
Negative	45
Missing	217

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. ELL = Yes



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.752	.044	.000	.666	.838
Wint10TotMath	.765	.043	.000	.680	.849
Spr10TotMath	.838	.037	.000	.766	.911

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = Yes

**Grade 4  
Fall Benchmark – ELL**

Cut score	Sensitivity	Specificity
13	0	1
14.5	0.022	1
15.5	0.022	0.987
16.5	0.044	0.987
17.5	0.089	0.975
18.5	0.156	0.962
19.5	0.244	0.911
20.5	0.333	0.899
21.5	0.467	0.861
22.5	0.556	0.797
23.5	0.644	0.709
24.5	0.711	0.658
25.5	0.778	0.557
26.5	0.822	0.506
27.5	0.889	0.443
<b>28.5</b>	<b>0.956</b>	<b>0.367</b>
29.5	0.956	0.316
30.5	0.978	0.253
31.5	0.978	0.165
32.5	1	0.152
33.5	1	0.114
34.5	1	0.076
35.5	1	0.051
37	1	0.025
38.5	1	0.013
40	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	117	93	210
	Meets or exceeds	3	62	65
Total		120	155	275

a. ELL = Yes

**Grade 4  
Winter Benchmark – ELL**

Cut score	Sensitivity	Specificity
14	0	1
16	0	0.975
17.5	0.022	0.962
18.5	0.022	0.949
19.5	0.133	0.949
20.5	0.267	0.949
21.5	0.4	0.911
22.5	0.444	0.835
23.5	0.556	0.81
24.5	0.667	0.722
25.5	0.689	0.658
26.5	0.8	0.608
27.5	0.844	0.595
28.5	0.844	0.557
29.5	0.867	0.481
<b>30.5</b>	<b>0.933</b>	<b>0.418</b>
31.5	0.956	0.329
32.5	0.956	0.253
33.5	1	0.177
34.5	1	0.127
35.5	1	0.076
36.5	1	0.038
37.5	1	0.025
39	1	0.013
41	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	88	81	169
	Meets or exceeds	3	43	46
Total		91	124	215

a. ELL = Yes

**Grade 4  
Spring Benchmark – ELL**

Cut score	Sensitivity	Specificity
12	0	1
14	0	0.987
17	0.022	0.975
19.5	0.111	0.962
20.5	0.156	0.962
21.5	0.178	0.949
22.5	0.222	0.924
23.5	0.289	0.899
24.5	0.467	0.899
25.5	0.556	0.886
26.5	0.644	0.848
27.5	0.733	0.81
28.5	0.844	0.747
29.5	0.911	0.684
30.5	0.933	0.62
31.5	0.933	0.544
<b>32.5</b>	<b>0.978</b>	<b>0.468</b>
33.5	0.978	0.405
34.5	0.978	0.354
35.5	0.978	0.253
36.5	0.978	0.177
37.5	0.978	0.152
38.5	1	0.101
39.5	1	0.089
40.5	1	0.051
41.5	1	0.038
43	1	0.013
45	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	83	68	151
	Meets or exceeds	9	69	78
Total		92	137	229

a. ELL = Yes

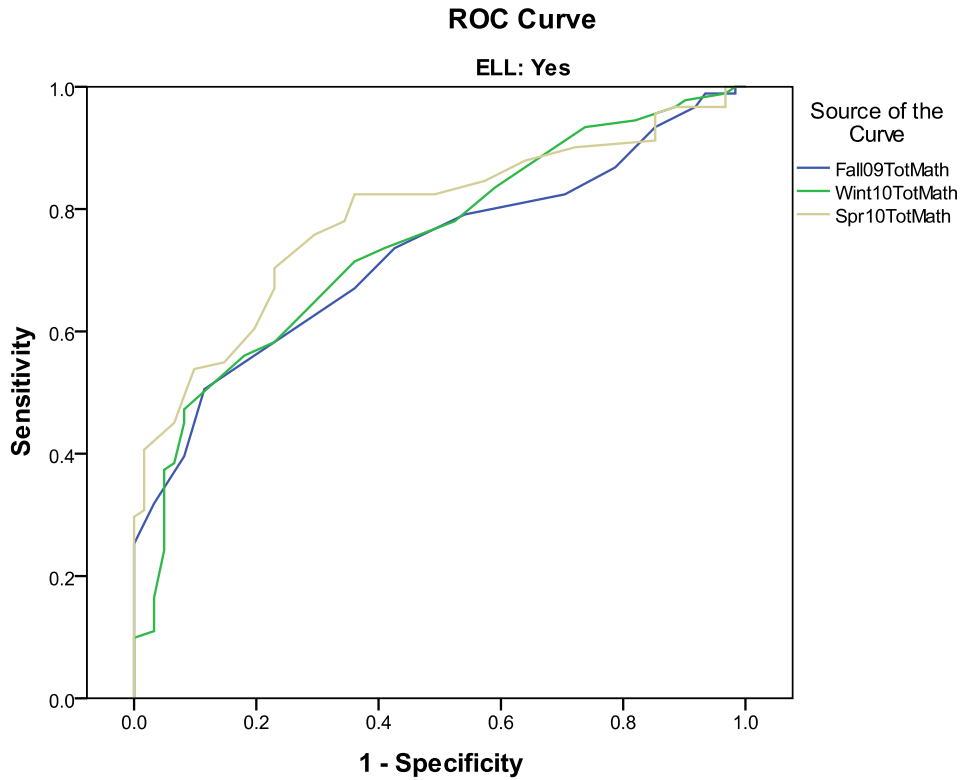
**Grade 5**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	91
Negative	61
Missing	166

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. ELL = Yes



Diagonal segments are produced by ties.

**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.724	.040	.000	.645	.803
Wint10TotMath	.743	.040	.000	.665	.821
Spr10TotMath	.786	.037	.000	.714	.857

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = Yes

**Grade 5  
Fall Benchmark – ELL**

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.016	1
13.5	0.016	0.989
15	0.066	0.989
16.5	0.082	0.967
17.5	0.148	0.934
18.5	0.213	0.868
19.5	0.295	0.824
20.5	0.459	0.791
21.5	0.574	0.736
22.5	0.639	0.67
23.5	0.738	0.604
24.5	0.836	0.538
25.5	0.885	0.505
26.5	0.902	0.451
<b>27.5</b>	<b>0.918</b>	<b>0.396</b>
28.5	0.967	0.319
29.5	1	0.253
30.5	1	0.231
31.5	1	0.198
32.5	1	0.176
33.5	1	0.143
34.5	1	0.11
35.5	1	0.088
36.5	1	0.066
37.5	1	0.033
38.5	1	0.022
42	1	0.011
46	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	116	83	199
	Meets or exceeds	8	65	73
Total		124	148	272

a. ELL = Yes



**Grade 5**  
**Winter Benchmark – ELL**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.016	1
15	0.033	0.989
16.5	0.098	0.978
17.5	0.115	0.967
18.5	0.18	0.945
19.5	0.262	0.934
20.5	0.295	0.912
21.5	0.41	0.835
22.5	0.475	0.78
23.5	0.59	0.736
24.5	0.639	0.714
25.5	0.705	0.648
26.5	0.77	0.582
27.5	0.82	0.56
28.5	0.869	0.516
29.5	0.918	0.473
30.5	0.918	0.451
<b>31.5</b>	<b>0.934</b>	<b>0.385</b>
32.5	0.951	0.374
33.5	0.951	0.308
34.5	0.951	0.275
35.5	0.951	0.242
36.5	0.967	0.165
37.5	0.967	0.11
39	1	0.099
40.5	1	0.077
41.5	1	0.033
42.5	1	0.022
43.5	1	0.011
45	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	99	75	174
	Meets or exceeds	4	43	47
Total		103	118	221

a. ELL = Yes

**Grade 5**  
**Spring Benchmark – ELL**

Cut score	Sensitivity	Specificity
6	0	1
10	0.016	1
14	0.033	1
15.5	0.033	0.978
16.5	0.033	0.967
17.5	0.066	0.967
18.5	0.115	0.967
19.5	0.148	0.956
20.5	0.148	0.912
21.5	0.279	0.901
22.5	0.361	0.879
23.5	0.426	0.846
24.5	0.508	0.824
25.5	0.639	0.824
26.5	0.656	0.78
28	0.705	0.758
29.5	0.77	0.703
30.5	0.77	0.67
31.5	0.803	0.604
32.5	0.852	0.549
33.5	0.902	0.538
<b>34.5</b>	<b>0.918</b>	<b>0.495</b>
35.5	0.934	0.451
36.5	0.984	0.407
37.5	0.984	0.374
38.5	0.984	0.341
39.5	0.984	0.308
40.5	1	0.297
41.5	1	0.231
42.5	1	0.154
43.5	1	0.099
44.5	1	0.033
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	85	67	152
	Meets or exceeds	11	79	90
Total		96	146	242

a. ELL = Yes

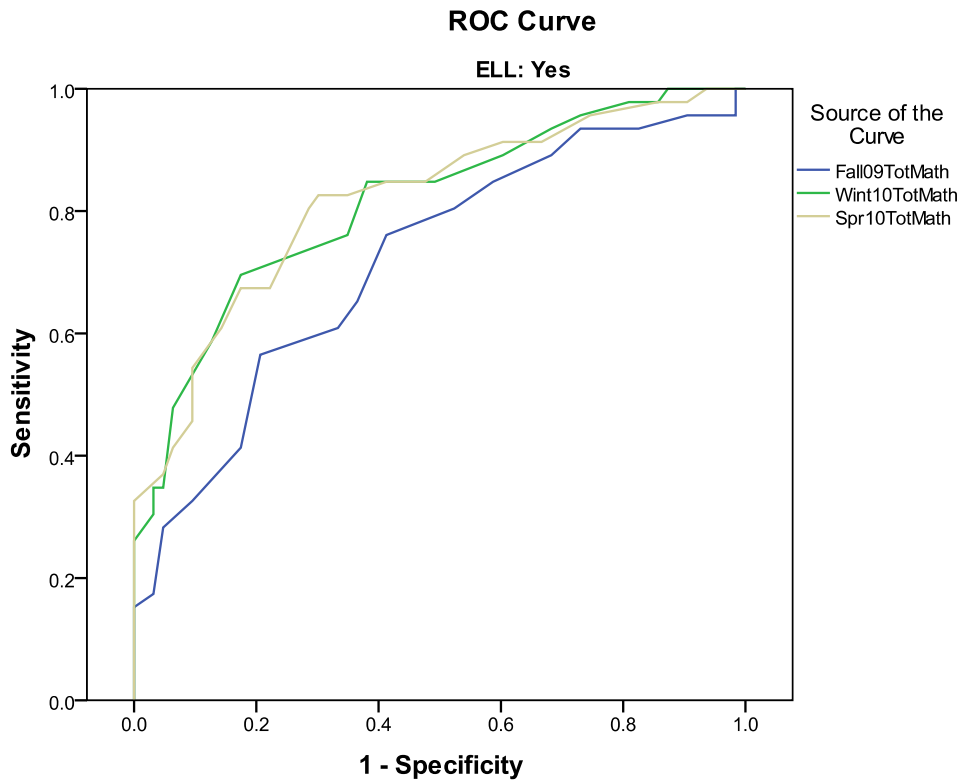
**Grade 6**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	46
Negative	63
Missing	179

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. ELL = Yes



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.718	.050	.000	.620	.816
Wint10TotMath	.812	.042	.000	.730	.895
Spr10TotMath	.816	.042	.000	.734	.898

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = Yes

**Grade 6  
Fall Benchmark – ELL**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.016	1
14.5	0.016	0.978
15.5	0.016	0.957
16.5	0.032	0.957
17.5	0.095	0.957
18.5	0.175	0.935
19.5	0.27	0.935
20.5	0.317	0.891
21.5	0.413	0.848
22.5	0.476	0.804
23.5	0.587	0.761
24.5	0.635	0.652
25.5	0.667	0.609
<b>26.5</b>	<b>0.794</b>	<b>0.565</b>
27.5	0.825	0.413
28.5	0.905	0.326
29.5	0.952	0.283
31	0.968	0.174
32.5	1	0.152
33.5	1	0.109
34.5	1	0.087
35.5	1	0.065
37.5	1	0.043
41	1	0.022
44	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	112	41	153
	Meets or exceeds	21	59	80
Total		133	100	233

a. ELL = Yes

**Grade 6  
Winter Benchmark – ELL**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.016	1
12.5	0.032	1
13.5	0.079	1
15	0.111	1
16.5	0.127	1
17.5	0.143	0.978
18.5	0.19	0.978
19.5	0.27	0.957
20.5	0.317	0.935
21.5	0.397	0.891
22.5	0.508	0.848
23.5	0.619	0.848
24.5	0.651	0.761
25.5	0.825	0.696
26.5	0.873	0.587
<b>27.5</b>	<b>0.937</b>	<b>0.478</b>
28.5	0.952	0.348
29.5	0.968	0.348
30.5	0.968	0.304
31.5	1	0.261
32.5	1	0.217
33.5	1	0.196
34.5	1	0.174
35.5	1	0.13
36.5	1	0.109
37.5	1	0.065
40.5	1	0.043
44	1	0.022
46	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	102	39	141
	Meets or exceeds	10	29	39
Total		112	68	180

a. ELL = Yes



**Grade 6  
Spring Benchmark – ELL**

Cut score	Sensitivity	Specificity
12	0	1
13.5	0.063	1
16	0.095	0.978
18.5	0.143	0.978
19.5	0.254	0.957
20.5	0.333	0.913
21.5	0.397	0.913
22.5	0.46	0.891
23.5	0.524	0.848
24.5	0.587	0.848
25.5	0.651	0.826
26.5	0.698	0.826
27.5	0.714	0.804
28.5	0.778	0.674
29.5	0.825	0.674
30.5	0.857	0.609
<b>31.5</b>	<b>0.905</b>	<b>0.543</b>
32.5	0.905	0.457
33.5	0.937	0.413
34.5	0.952	0.37
35.5	1	0.326
36.5	1	0.261
37.5	1	0.239
38.5	1	0.196
39.5	1	0.13
41.5	1	0.087
43.5	1	0.043
44.5	1	0.022
46	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	81	36	117
	Meets or exceeds	8	47	55
Total		89	83	172

a. ELL = Yes

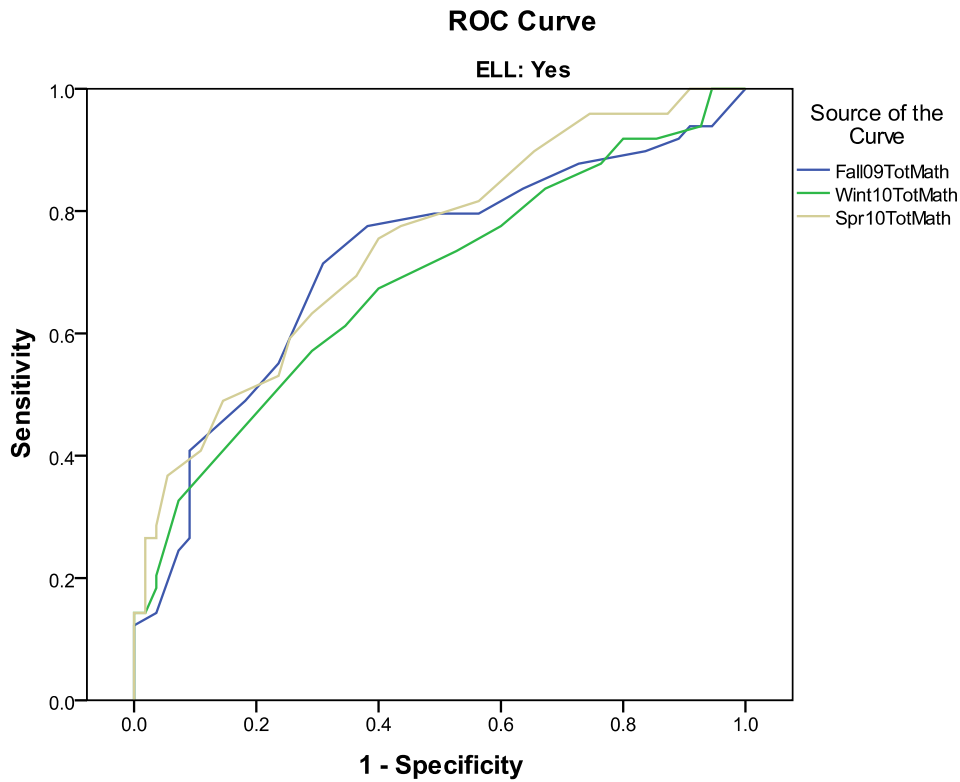
**Grade 7**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	49
Negative	55
Missing	142

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. ELL = Yes



Diagonal segments are produced by ties.

Area Under the Curve <sup>c</sup>					
Test Result	Asymptotic 95% Confidence Interval				
Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Lower Bound	Upper Bound
Fall09TotMath	.717	.052	.000	.616	.819
Wint10TotMath	.684	.053	.001	.581	.787
Spr10TotMath	.744	.048	.000	.651	.838

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = Yes

**Grade 7  
Fall Benchmark – ELL**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.018	0.98
11.5	0.055	0.939
12.5	0.091	0.939
13.5	0.109	0.918
14.5	0.164	0.898
15.5	0.273	0.878
16.5	0.364	0.837
17.5	0.436	0.796
18.5	0.509	0.796
19.5	0.618	0.776
20.5	0.691	0.714
21.5	0.727	0.633
22.5	0.764	0.551
23.5	0.818	0.49
24.5	0.909	0.408
25.5	0.909	0.367
<b>26.5</b>	<b>0.909</b>	<b>0.265</b>
27.5	0.927	0.245
28.5	0.964	0.143
29.5	1	0.122
30.5	1	0.061
31.5	1	0.041
35	1	0.02
39	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
FallCut	Does not meet	81	51	132
	Meets or exceeds	5	28	33
Total		86	79	165

a. ELL = Yes

**Grade 7  
Winter Benchmark – ELL**

Cut score	Sensitivity	Specificity
7	0	1
8.5	0.018	1
10	0.036	1
11.5	0.055	1
12.5	0.073	0.939
13.5	0.145	0.918
14.5	0.2	0.918
15.5	0.236	0.878
16.5	0.327	0.837
17.5	0.4	0.776
18.5	0.473	0.735
19.5	0.6	0.673
20.5	0.655	0.612
21.5	0.709	0.571
22.5	0.764	0.51
23.5	0.8	0.469
24.5	0.873	0.388
25.5	0.927	0.327
<b>26.5</b>	<b>0.945</b>	<b>0.265</b>
27.5	0.964	0.204
28.5	0.964	0.184
29.5	0.982	0.143
31	1	0.143
32.5	1	0.122
34	1	0.061
35.5	1	0.041
39	1	0.02
43	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
WintCut	Does not meet	76	40	116
	Meets or exceeds	4	18	22
Total		80	58	138

a. ELL = Yes

**Grade 7**  
**Spring Benchmark – ELL**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.036	1
12	0.055	1
13.5	0.091	1
14.5	0.127	0.959
15.5	0.182	0.959
16.5	0.255	0.959
17.5	0.345	0.898
18.5	0.436	0.816
19.5	0.564	0.776
20.5	0.6	0.755
21.5	0.636	0.694
22.5	0.709	0.633
23.5	0.745	0.592
24.5	0.764	0.531
25.5	0.855	0.49
<b>26.5</b>	<b>0.891</b>	<b>0.408</b>
27.5	0.945	0.367
28.5	0.964	0.286
29.5	0.964	0.265
30.5	0.982	0.265
31.5	0.982	0.245
32.5	0.982	0.184
33.5	0.982	0.163
34.5	0.982	0.143
35.5	1	0.143
36.5	1	0.102
37.5	1	0.082
38.5	1	0.041
41.5	1	0.02
45	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
SprCut	Does not meet	70	34	104
	Meets or exceeds	8	29	37
Total		78	63	141

a. ELL = Yes

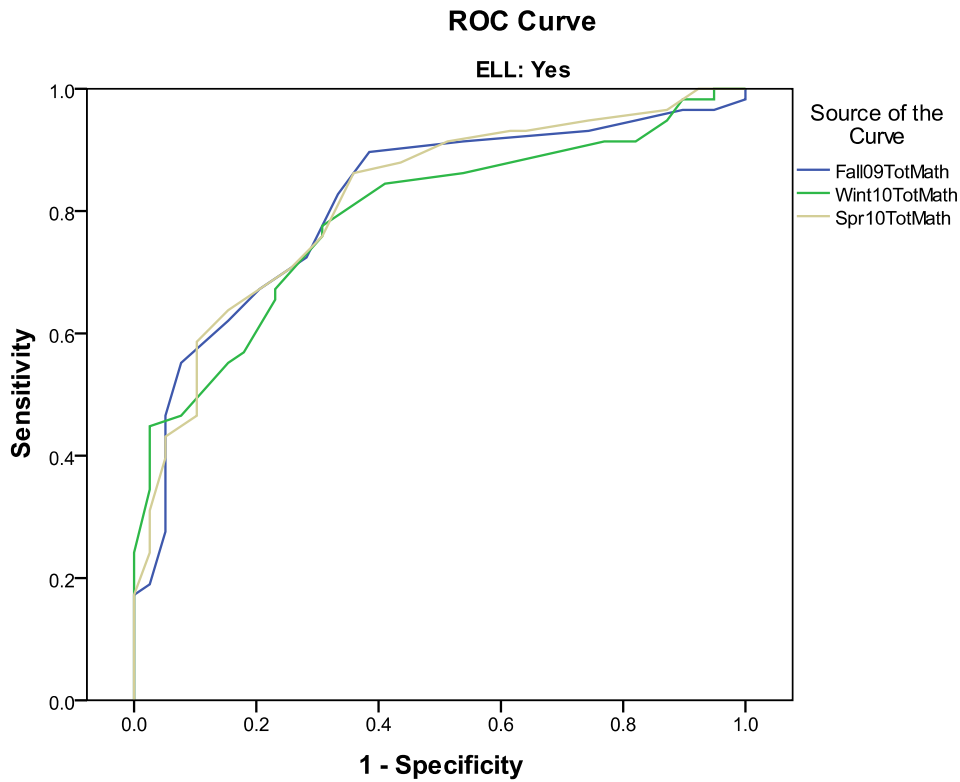
**Grade 8**

**Case Processing Summary<sup>c</sup>**

PLC <sup>a</sup>	Valid N (listwise)
Positive <sup>b</sup>	58
Negative	39
Missing	128

Larger values of the test result variable(s) indicate stronger evidence for a positive actual state.

- a. The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group.
- b. The positive actual state is Meets or exceeds.
- c. ELL = Yes



Diagonal segments are produced by ties.



**Area Under the Curve<sup>c</sup>**

Test Result Variable(s)	Area	Std. Error <sup>a</sup>	Asymptotic Sig. <sup>b</sup>	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.813	.045	.000	.726	.901
Wint10TotMath	.789	.046	.000	.700	.879
Spr10TotMath	.818	.043	.000	.733	.902

The test result variable(s): Fall09TotMath, Wint10TotMath, Spr10TotMath has at least one tie between the positive actual state group and the negative actual state group. Statistics may be biased.

a. Under the nonparametric assumption

b. Null hypothesis: true area = 0.5

c. ELL = Yes

**Grade 8  
Fall Benchmark – ELL**

Cut score	Sensitivity	Specificity
10	0	1
12	0	0.983
13.5	0.051	0.966
14.5	0.103	0.966
15.5	0.179	0.948
16.5	0.256	0.931
17.5	0.462	0.914
18.5	0.615	0.897
19.5	0.667	0.828
20.5	0.718	0.724
21.5	0.795	0.672
22.5	0.846	0.621
23.5	0.923	0.552
24.5	0.949	0.466
<b>25.5</b>	<b>0.949</b>	<b>0.431</b>
26.5	0.949	0.362
27.5	0.949	0.276
28.5	0.974	0.19
29.5	1	0.172
31	1	0.138
32.5	1	0.086
33.5	1	0.069
36.5	1	0.034
40	1	0

**FallCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
FallCut	Does not meet	77	48	125
	Meets or exceeds	3	38	41
Total		80	86	166

a. ELL = Yes

**Grade 8  
Winter Benchmark – ELL**

Cut score	Sensitivity	Specificity
9	0	1
10.5	0.051	1
11.5	0.051	0.983
12.5	0.103	0.983
13.5	0.128	0.948
14.5	0.179	0.914
15.5	0.231	0.914
16.5	0.385	0.879
17.5	0.462	0.862
18.5	0.59	0.845
19.5	0.692	0.776
20.5	0.692	0.759
21.5	0.769	0.672
22.5	0.769	0.655
23.5	0.821	0.569
24.5	0.846	0.552
<b>25.5</b>	<b>0.923</b>	<b>0.466</b>
26.5	0.974	0.448
27.5	0.974	0.379
28.5	0.974	0.345
30.5	1	0.241
32.5	1	0.207
33.5	1	0.172
34.5	1	0.103
35.5	1	0.086
37	1	0.069
38.5	1	0.052
39.5	1	0.034
40.5	1	0.017
42	1	0

**WintCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		
		Does not meet	Meets or exceeds	Total
WintCut	Does not meet	59	38	97
	Meets or exceeds	5	28	33
Total		64	66	130

a. ELL = Yes

**Grade 8  
Spring Benchmark – ELL**

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.026	1
12.5	0.077	1
13.5	0.128	0.966
14.5	0.256	0.948
15.5	0.359	0.931
16.5	0.385	0.931
17.5	0.487	0.914
18.5	0.564	0.879
19.5	0.641	0.862
20.5	0.667	0.81
21.5	0.692	0.759
22.5	0.744	0.707
23.5	0.846	0.638
24.5	0.897	0.586
25.5	0.897	0.466
26.5	0.949	0.431
<b>27.5</b>	<b>0.949</b>	<b>0.397</b>
28.5	0.974	0.31
29.5	0.974	0.276
30.5	0.974	0.241
31.5	1	0.172
32.5	1	0.138
34	1	0.103
35.5	1	0.052
36.5	1	0.034
40.5	1	0.017
45	1	0

**SprCut \* PLC Crosstabulation<sup>a</sup>**

Count		PLC		Total
		Does not meet	Meets or exceeds	
SprCut	Does not meet	50	43	93
	Meets or exceeds	3	29	32
Total		53	72	125

a. ELL = Yes