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Diagnostic Efficiency of easyCBM® Math: Washington State

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Abstract

easyCBM® is an online benchmark and progress monitoring assessment system designed for use within a response to intervention framework. Educators using easyCBM® 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 sample from three districts across the state of Washington. The Washington state test was the criterion in a Receiver Operator Characteristics (ROC) curve analysis. In addition to diagnostic efficiency statistics, optimal cut scores are reported for predicting whether students will reach the proficiency cut score on the Washington state test.

Diagnostic Efficiency of easyCBM®Math: Washington State Test

In this technical report, we present the results of a study examining optimal cut points for easyCBM®, an online benchmark and progress monitoring assessment system, in relation to the Washington 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, 124,580 teachers had registered easyCBM® accounts, representing schools and districts spread across every state in the United States and several international locations. 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 their 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 Washington state assessment.

Methods

Setting and Participants

Data for this study come from three districts in the state of Washington. The demographics and number of students in the sample are reported by district and grade level in Table 1. The participating districts 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 present on the day of testing were included in the study.

Measures

Two measures were used in this study: the mathematics portion of easyCBM®, and the mathematics portion of the Measures of Student Progress (MSP), Washington'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® 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® 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 MSP was newly implemented in the state of Washington for the 2009-2010 school year. Previously, Washington had administered the Washington Assessment of Student Learning, a longer test that was limited to paper pencil format. According to the Washington Department of Education, the MSP will eventually be a computer administed assessment; however, because this was the first year the assessment was administered, only about 25% of students in grades 6-8 were administered the assessment by computer. The state plans to move to a fully computer administered test within 2-3 years. The MSP includes multiple-choice and short answer item types. Based on their scores on the MSP, students are classified into four performance classifications: *below basic*, *basic*, *proficient*, and *advanced*. When producing optimal cut scores for easyCBM®, these categories were collapsed into a dichotomous classification of either *meeting* (which includes the performance classifications of *proficient* and *advanced*) or *not meeting* (classifications of *below basic* and *basic*). When reporting the average easyCBM score by performance level classification, we report only for the dichotomous categories.

Data Analysis

To obtain diagnostic efficiency information, Receiver Operating Characteristics (ROC) curve analyses were conducted with each seasonal easyCBM® assessment. Students' performance level classification from the MSP 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 ratings of every possible cut score for each measure. Optimal cut scores were established using a slight modification to 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)

Given that easyCBM® 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 a both statistics being close to 0.8.

For example, a cut score of 30.5 (students with scores of 30 and below identified as *at-risk*, 31 and above identified as *not at-risk*) on the grade 6 fall 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 (31.5). This slight modification further emphasized sensitivity. 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.

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® to predict performance level classification on the MSP. It is important to note that the cross-tabulation was conducted by season, while the ROC 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 emphasized sensitivity, we determined a single cut point for each of the three easyCBM® 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 22 – 265 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:

The cut point that was chosen during the full sample analysis is displayed in bold-faced font on all tables for all subgroups, as this number was derived from a much larger sample and is thus more robust. For particular subgroups, a different cut score may have been more optimal, but only the chosen cut score is bolded.

Discussion

The results of this study suggest optimal cut scores for use in Washington state schools for each of the easyCBM® 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 Silberglitt 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 .84 to .94 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. The results of this study provide quite strong evidence for optimal cut score placement for schools and districts within the state of Washington; however, although these findings mimic the findings from a similar study in Oregon state (Anderson, Tindal, & Alonzo, 2010), caution should be advised from 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, while large, came from only 3 districts.

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Table 1

Demographics

Grade	*n*	% ELL	% FRL	% SPED	% Female	% Ethnicity						
						Amer Ind	Asian/Pac Islander	Black	Hispanic	White	Multi	Decline/ Missing
District 1												
3	1023	3.1	45.2	12.7	48.5	2.8	10.9	5.2	8.7	57.9	11.9	2.5
4	993	2.9	43.1	11.7	48.8	2.1	9.4	5.5	9.4	57.5	13.9	2.2
5	1000	2.9	39.7	15.1	42.6	1.9	10.8	5.3	7.8	57.3	14.7	2.2
6	940	2.1	40.1	11.6	49.1	3.2	10.0	5.5	8.9	59.0	10.9	2.4
7	982	2.0	38.9	13.1	48.8	2.3	10.3	9.0	9.6	58.5	6.2	4.2
8	1107	2.3	34.3	10.3	41.9	3.0	13.6	9.8	11.1	60.7	1.0	0.8
District 2												
3	271	12.2	-	13.7	47.2	5.5	4.1	1.1	24.0	61.3	2.6	1.5
4	262	8.4	-	18.7	48.5	4.2	2.7	0.4	22.9	67.6	2.3	-
5	258	6.2	-	21.3	57.8	7.8	3.5	1.2	20.9	65.5	0.4	0.8
6	245	4.9	-	7.8	49.0	5.3	1.6	1.6	18.4	70.2	2.4	0.4
7	225	4.4	-	4.9	49.3	6.7	1.8	1.3	17.3	70.2	0.9	1.8
8	592	3.4	-	12.5	47.6	7.4	2.0	1.7	14.9	71.6	1.0	1.4
District 3												
3	638	6.1	29.5	15.5	49.2	0.9	16.8	6.7	7.2	56.4	11.9	-
4	673	5.6	27.0	15.5	44.9	1.0	18.1	6.7	4.5	59.0	10.7	-
5	638	5.2	27.9	14.6	45.5	1.4	15.7	7.8	7.4	64.1	3.6	-
6	667	4.5	27.0	13.0	50.5	1.6	17.1	9.0	8.4	61.2	2.5	0.1
7	623	5.3	28.4	10.4	48.8	0.3	19.4	8.2	7.5	60.7	3.7	0.2
8	661	4.8	25.9	10.7	49.6	1.4	18.8	7.9	7.7	62.0	2.1	0.2

Note. Numbers reflect full sample separated by District. However, during analyses students were excluded listwise and the actual demographics of students included varies by analysis. All values thus more accurately represent the District and not necessarily the analyses, and only provide a general indication of the students included in the analyses.

ELL – English Language Learner, FRL – Free or reduced lunch eligible, SPED – Student receives special education services

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	Below Basic and Basic	Proficient and Advanced
3	Fall	26.29	34.16
	Winter	29.87	37.90
	Spring	31.97	39.40
4	Fall	27.20	37.11
	Winter	30.11	38.83
	Spring	31.37	40.66
5	Fall	26.60	36.89
	Winter	29.48	39.95
	Spring	34.07	42.41
6	Fall	25.28	35.10
	Winter	27.08	37.42
	Spring	30.18	40.33
7	Fall	23.35	34.32
	Winter	23.57	34.90
	Spring	25.74	37.18
8	Fall	24.54	36.15
	Winter	25.28	37.70
	Spring	27.95	37.59

Table 4

Resulting Statistics for Each Chosen Cut Score: Full Sample

Grd	Season	Meets Score	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	594	.39	.25	.21	.79	.75	.67	.85	.77	.84
3	Winter	36	721	.33	.29	.15	.85	.71	.59	.90	.75	.87
	Spring	39	923	.36	.35	.13	.88	.65	.59	.90	.73	.88
	Fall	33	671	.37	.16	.17	.83	.84	.75	.89	.84	.90
4	Winter	36	857	.37	.20	.16	.84	.80	.71	.89	.81	.90
	Spring	39	911	.38	.25	.12	.88	.75	.69	.91	.80	.93
	Fall	33	640	.35	.19	.16	.84	.81	.71	.91	.82	.91
5	Winter	37	776	.37	.16	.13	.87	.84	.76	.91	.85	.93
	Spring	42	1042	.39	.27	.11	.89	.73	.68	.91	.79	.92
	Fall	32	829	.36	.27	.13	.87	.73	.65	.91	.78	.90
6	Winter	33	830	.36	.18	.14	.86	.82	.72	.91	.83	.92
	Spring	38	1668	.39	.22	.11	.89	.78	.73	.92	.83	.94
	Fall	29	753	.36	.18	.20	.80	.82	.72	.88	.82	.90
7	Winter	29	772	.35	.17	.20	.80	.83	.71	.89	.82	.91
	Spring	34	1590	.41	.22	.11	.89	.78	.74	.91	.82	.93
	Fall	32	513	.29	.20	.14	.86	.80	.63	.94	.82	.92
8	Winter	35	636	.35	.25	.10	.90	.75	.66	.93	.81	.92
	Spring	35	1462	.40	.23	.20	.80	.77	.70	.86	.78	.91

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	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	2	-	-	-	-	-	-	-	-	-
3	Winter	36	12	-	-	-	-	-	-	-	-	-
	Spring	39	16	-	-	-	-	-	-	-	-	-
	Fall	33	8	-	-	-	-	-	-	-	-	-
4	Winter	36	13	-	-	-	-	-	-	-	-	-
	Spring	39	11	-	-	-	-	-	-	-	-	-
	Fall	33	10	-	-	-	-	-	-	-	-	-
5	Winter	37	17	-	-	-	-	-	-	-	-	-
	Spring	42	17	-	-	-	-	-	-	-	-	-
	Fall	32	21	-	-	-	-	-	-	-	-	-
6	Winter	33	22	-	-	-	-	-	-	-	-	-
	Spring	38	44	-	-	-	-	-	-	-	-	-
	Fall	29	17	-	-	-	-	-	-	-	-	-
7	Winter	29	17	-	-	-	-	-	-	-	-	-
	Spring	34	32	-	-	-	-	-	-	-	-	-
	Fall	32	7	-	-	-	-	-	-	-	-	-
8	Winter	35	10	-	-	-	-	-	-	-	-	-
	Spring	35	53	.53	.20	.07	.93	.80	.84	.91	.87	-

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	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	95	.23	.22	.18	.82	.78	.53	.93	.79	.83
3	Winter	36	98	.21	.35	.29	.71	.65	.36	.89	.66	.80
	Spring	39	126	.25	.33	.13	.87	.67	.47	.94	.72	.88
	Fall	33	115	.29	.17	.12	.88	.83	.67	.94	.84	.91
4	Winter	36	123	.28	.14	.20	.80	.86	.70	.92	.85	.90
	Spring	39	126	.29	.22	.08	.92	.78	.63	.96	.82	.94
	Fall	33	91	.24	.22	.18	.82	.78	.55	.93	.79	.90
5	Winter	37	97	.26	.08	.20	.80	.92	.77	.93	.89	.94
	Spring	42	138	.28	.26	.21	.79	.74	.54	.90	.75	.87
	Fall	32	104	.21	.17	.14	.86	.83	.58	.96	.84	.94
6	Winter	33	108	.20	.19	.05	.95	.81	.57	.99	.84	.98
	Spring	38	192	.26	.20	.12	.88	.80	.60	.95	.82	.95
	Fall	29	111	.34	.16	.21	.79	.84	.71	.88	.82	.91
7	Winter	29	114	.32	.17	.25	.75	.83	.68	.88	.81	.92
	Spring	34	203	.34	.18	.16	.84	.82	.71	.91	.83	.94
	Fall	32	108	.37	.12	.20	.80	.88	.80	.88	.85	.95
8	Winter	35	126	.37	.22	.11	.89	.78	.71	.93	.83	.94
	Spring	35	181	.35	.21	.05	.95	.79	.71	.97	.85	.94

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	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	37	-	-	-	-	-	-	-	-	-
3	Winter	36	65	.71	.32	.07	.93	.68	.88	.81	.86	-
	Spring	39	56	.34	.41	.05	.95	.59	.55	.96	.71	-
	Fall	33	38	-	-	-	-	-	-	-	-	-
4	Winter	36	49	-	-	-	-	-	-	-	-	-
	Spring	39	57	.65	.25	.08	.92	.75	.87	.83	.86	-
	Fall	33	47	-	-	-	-	-	-	-	-	-
5	Winter	37	49	-	-	-	-	-	-	-	-	-
	Spring	42	75	.57	.28	.09	.91	.72	.81	.85	.83	-
	Fall	32	56	.46	.33	.15	.85	.67	.69	.83	.75	.90
6	Winter	33	58	.48	.23	.18	.82	.77	.77	.82	.79	.88
	Spring	38	107	.49	.22	.08	.92	.78	.80	.91	.85	.93
	Fall	29	47	-	-	-	-	-	-	-	-	-
7	Winter	29	48	-	-	-	-	-	-	-	-	-
	Spring	34	120	.52	.41	.06	.94	.59	.71	.89	.77	-
	Fall	32	36	-	-	-	-	-	-	-	-	-
8	Winter	35	42	-	-	-	-	-	-	-	-	-
	Spring	35	82	.56	.44	.07	.93	.56	.73	.87	.77	-

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	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	83	.75	.43	.13	.87	.57	.86	.60	.80	.82
3	Winter	36	65	.71	.32	.07	.93	.68	.88	.81	.86	.92
	Spring	39	111	.70	.48	.04	.96	.52	.82	.85	.83	.91
	Fall	33	66	.68	.67	.02	.98	.33	.76	.88	.77	-
4	Winter	36	80	.68	.35	.06	.94	.65	.85	.85	.85	-
	Spring	39	76	.61	.37	.02	.98	.63	.80	.95	.84	-
	Fall	33	76	.71	.36	.06	.94	.64	.86	.82	.86	.85
5	Winter	37	78	.69	.50	.02	.98	.50	.82	.92	.83	.84
	Spring	42	94	.71	.37	.04	.96	.63	.86	.85	.86	.90
	Fall	32	91	.63	.41	.11	.89	.59	.78	.77	.78	.86
6	Winter	33	89	.63	.27	.04	.96	.73	.86	.92	.88	.94
	Spring	38	168	.60	.28	.11	.89	.72	.82	.82	.82	.91
	Fall	29	70	.61	.33	.07	.93	.67	.82	.86	.83	.89
7	Winter	29	80	.61	.35	.06	.94	.65	.81	.87	.83	.93
	Spring	34	154	.63	.32	.11	.89	.68	.83	.78	.81	.92
	Fall	32	33	-	-	-	-	-	-	-	-	-
8	Winter	35	60	.65	.48	.05	.95	.52	.79	.85	.80	-
	Spring	35	140	.59	.51	.13	.87	.49	.71	.72	.71	-

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	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	316	.35	.24	.23	.77	.76	.64	.86	.77	.83
3	Winter	36	425	.31	.20	.23	.77	.80	.64	.88	.79	.86
	Spring	39	513	.33	.35	.13	.87	.65	.56	.91	.73	.88
	Fall	33	377	.33	.18	.21	.79	.82	.69	.89	.81	.88
4	Winter	36	499	.35	.20	.17	.83	.80	.69	.90	.81	.90
	Spring	39	546	.35	.24	.15	.85	.76	.65	.91	.79	.93
	Fall	33	396	.28	.14	.20	.80	.86	.69	.92	.84	.91
5	Winter	37	500	.32	.14	.16	.84	.86	.74	.92	.85	.94
	Spring	42	633	.33	.25	.14	.86	.75	.62	.92	.78	.92
	Fall	32	536	.32	.26	.13	.87	.74	.61	.92	.78	.90
6	Winter	33	534	.32	.27	.07	.93	.73	.62	.96	.80	.91
	Spring	38	1024	.35	.20	.12	.88	.80	.70	.93	.83	.95
	Fall	29	487	.31	.20	.12	.88	.80	.66	.94	.82	.90
7	Winter	29	490	.29	.22	.17	.83	.78	.61	.92	.79	.89
	Spring	34	976	.36	.20	.10	.90	.80	.72	.93	.84	.92
	Fall	32	318	.22	.18	.14	.86	.82	.58	.95	.83	.93
8	Winter	35	384	.27	.28	.08	.92	.72	.54	.96	.77	.91
	Spring	35	976	.36	.29	.18	.82	.71	.61	.88	.75	.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 10

Resulting Statistics for Each Chosen Cut Score: Subgroup Multiethnic

Grd	Season	Meets Score	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	61	.33	.27	.40	.60	.73	.52	.79	.69	.79
3	Winter	36	71	.25	.15	.17	.83	.85	.65	.94	.85	.92
	Spring	39	92	.29	.31	.44	.56	.69	.43	.79	.65	.69
	Fall	33	67	.25	.20	.24	.76	.80	.57	.91	.79	.86
4	Winter	36	88	.24	.18	.33	.67	.82	.54	.89	.78	.82
	Spring	39	92	.32	.24	.14	.86	.76	.63	.92	.79	.91
	Fall	33	20	-	-	-	-	-	-	-	-	-
5	Winter	37	33	-	-	-	-	-	-	-	-	-
	Spring	42	77	.44	.33	.03	.97	.67	.70	.97	.81	-
	Fall	32	21	-	-	-	-	-	-	-	-	-
6	Winter	33	19	-	-	-	-	-	-	-	-	-
	Spring	38	110	.50	.33	.13	.87	.67	.73	.84	.77	-
	Fall	29	18	-	-	-	-	-	-	-	-	-
7	Winter	29	20	-	-	-	-	-	-	-	-	-
	Spring	34	66	.44	.22	.14	.86	.78	.76	.88	.82	-
	Fall	32	11	-	-	-	-	-	-	-	-	-
8	Winter	35	11	-	-	-	-	-	-	-	-	-
	Spring	35	21	-	-	-	-	-	-	-	-	-

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	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	537	.34	.24	.24	.76	.76	.63	.86	.76	.83
3	Winter	36	676	.30	.22	.20	.80	.78	.62	.90	.79	.86
	Spring	39	848	.33	.34	.15	.85	.66	.55	.90	.72	.87
	Fall	33	623	.34	.19	.17	.83	.81	.69	.91	.82	.89
4	Winter	36	814	.35	.19	.17	.83	.81	.70	.90	.81	.89
	Spring	39	860	.35	.24	.13	.87	.76	.66	.91	.80	.93
	Fall	33	603	.33	.19	.17	.83	.81	.68	.91	.82	.90
5	Winter	37	737	.35	.16	.14	.86	.84	.74	.92	.85	.93
	Spring	42	990	.37	.27	.11	.89	.73	.66	.92	.79	.92
	Fall	32	801	.35	.27	.14	.86	.73	.63	.91	.78	.90
6	Winter	33	796	.34	.26	.08	.92	.74	.65	.95	.80	.92
	Spring	38	1613	.38	.22	.11	.89	.78	.71	.92	.82	.94
	Fall	29	720	.34	.21	.14	.86	.79	.67	.91	.81	.89
7	Winter	29	733	.32	.22	.16	.84	.78	.64	.91	.80	.90
	Spring	34	1536	.40	.22	.11	.89	.78	.72	.91	.82	.92
	Fall	32	493	.27	.18	.17	.83	.82	.63	.93	.82	.92
8	Winter	35	598	.32	.28	.09	.91	.72	.61	.95	.78	.92
	Spring	35	1428	.39	.30	.15	.85	.70	.65	.88	.76	.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	*n*	Failure Base Rate	False Positive Rate	False Negative Rate	Sensitivity	Specificity	Positve Predictive Power	Negative Predictive Power	Overall Correct Classification	AUC
	Fall	31	57	.81	.64	0.07	0.93	0.36	0.86	0.57	0.82	-
3	Winter	36	45	-	-	-	-	-	-	-	-	-
	Spring	39	75	.76	.72	0.02	0.98	0.28	0.81	0.83	0.81	-
	Fall	33	48	-	-	-	-	-	-	-	-	-
4	Winter	36	43	-	-	-	-	-	-	-	-	-
	Spring	39	51	.80	0.60	0.00	1.00	0.40	0.87	1.00	0.88	-
	Fall	33	37	-	-	-	-	-	-	-	-	-
5	Winter	37	39	-	-	-	-	-	-	-	-	-
	Spring	42	52	.77	0.33	0.08	0.93	0.67	0.90	0.73	0.87	-
	Fall	32	28	-	-	-	-	-	-	-	-	-
6	Winter	33	34	-	-	-	-	-	-	-	-	-
	Spring	38	55	.78	0.08	0.05	0.95	0.92	0.98	0.85	0.95	-
	Fall	29	33	-	-	-	-	-	-	-	-	-
7	Winter	29	39	-	-	-	-	-	-	-	-	-
	Spring	34	54	.85	0.25	0.07	0.93	0.75	0.96	0.67	0.91	-
	Fall	32	20	-	-	-	-	-	-	-	-	-
8	Winter	35	38	-	-	-	-	-	-	-	-	-
	Spring	35	34	-	-	-	-	-	-	-	-	-

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

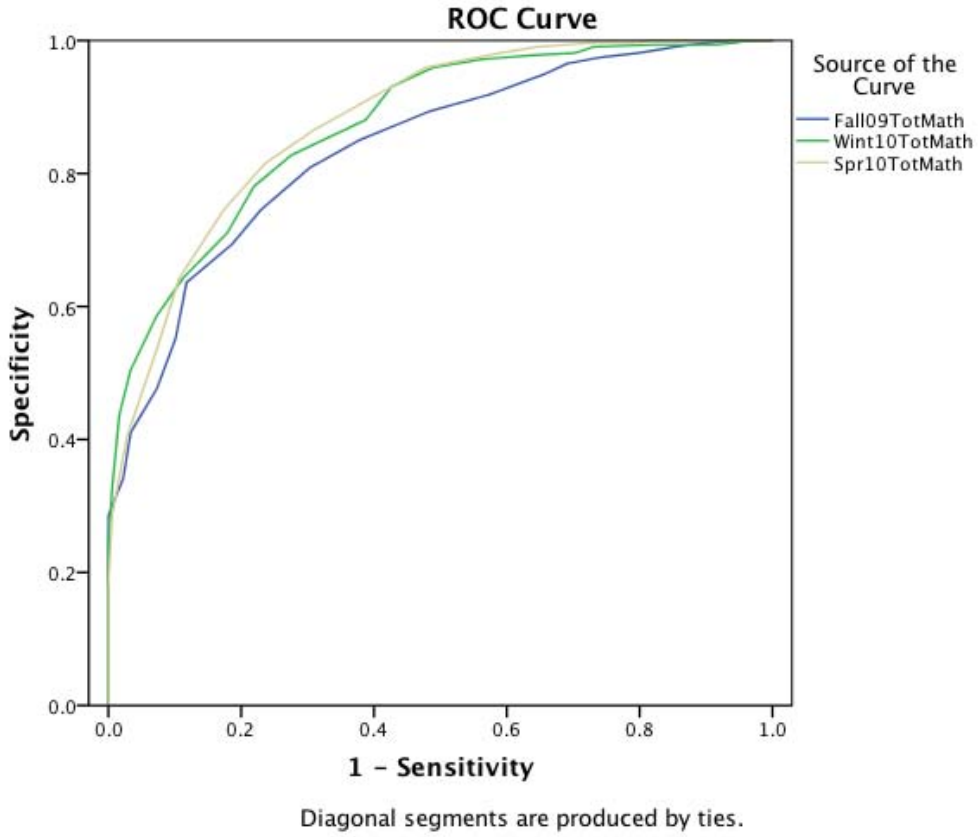
Grade 3

Case Processing Summary

MSP_PLC	Valid N (listwise)
Positive[a]	319
Negative	178
Missing	1435

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

a. The positive actual state is 1.



Area Under the Curve

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.838	.018	.000	.803	.873
Wint10TotMath	.873	.015	.000	.843	.904
Spr10TotMath	.878	.016	.000	.847	.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

Grade 3
Fall Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
11	0	1
13	0.006	1
14.5	0.017	1
16	0.022	1
17.5	0.034	1
18.5	0.062	1
19.5	0.096	0.997
20.5	0.124	0.994
21.5	0.146	0.991
22.5	0.202	0.981
23.5	0.258	0.975
24.5	0.309	0.966
25.5	0.343	0.95
26.5	0.427	0.918
27.5	0.517	0.893
28.5	0.624	0.85
29.5	0.697	0.809
30.5	**0.77**	**0.746**
31.5	0.815	0.693
32.5	0.882	0.636
33.5	0.899	0.552
34.5	0.927	0.476
35.5	0.966	0.411
36.5	0.978	0.342
37.5	1	0.285
38.5	1	0.194
39.5	1	0.147
40.5	1	0.113
41.5	1	0.06
42.5	1	0.034
43.5	1	0.016
44.5	1	0.003
46	1	0

FallCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	183	90	273
	Meets or exceeds	48	273	321
Total		231	363	594

Grade 3
Winter Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
17	0	1
18.5	0.006	1
19.5	0.028	1
21	0.039	1
22.5	0.056	0.997
23.5	0.084	0.994
24.5	0.124	0.994
25.5	0.18	0.994
26.5	0.27	0.991
27.5	0.298	0.981
28.5	0.36	0.978
29.5	0.438	0.972
30.5	0.511	0.959
31.5	0.573	0.931
32.5	0.612	0.881
33.5	0.725	0.828
34.5	0.781	0.781
35.5	**0.82**	**0.712**
36.5	0.888	0.643
37.5	0.927	0.586
38.5	0.966	0.505
39.5	0.983	0.439
40.5	0.994	0.326
41.5	1	0.238
42.5	1	0.138
43.5	1	0.091
44.5	1	0.038
46	1	0

WintCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	203	140	343
	Meets or exceeds	37	341	378
Total		240	481	721

Grade 3
Spring Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
16	0	1
17.5	0.006	1
19	0.011	1
20.5	0.022	1
21.5	0.034	1
22.5	0.045	1
23.5	0.062	1
24.5	0.09	1
25.5	0.112	1
26.5	0.152	1
27.5	0.185	1
28.5	0.202	0.997
29.5	0.27	0.997
30.5	0.309	0.994
31.5	0.354	0.991
32.5	0.41	0.981
33.5	0.522	0.959
34.5	0.562	0.937
35.5	0.612	0.909
36.5	0.691	0.865
37.5	0.764	0.815
38.5	**0.826**	**0.746**
39.5	0.893	0.643
40.5	0.927	0.536
41.5	0.972	0.404
42.5	0.994	0.285
43.5	1	0.176
44.5	1	0.053
46	1	0

SprCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	294	207	501
	Meets or exceeds	42	380	422
Total		336	587	923

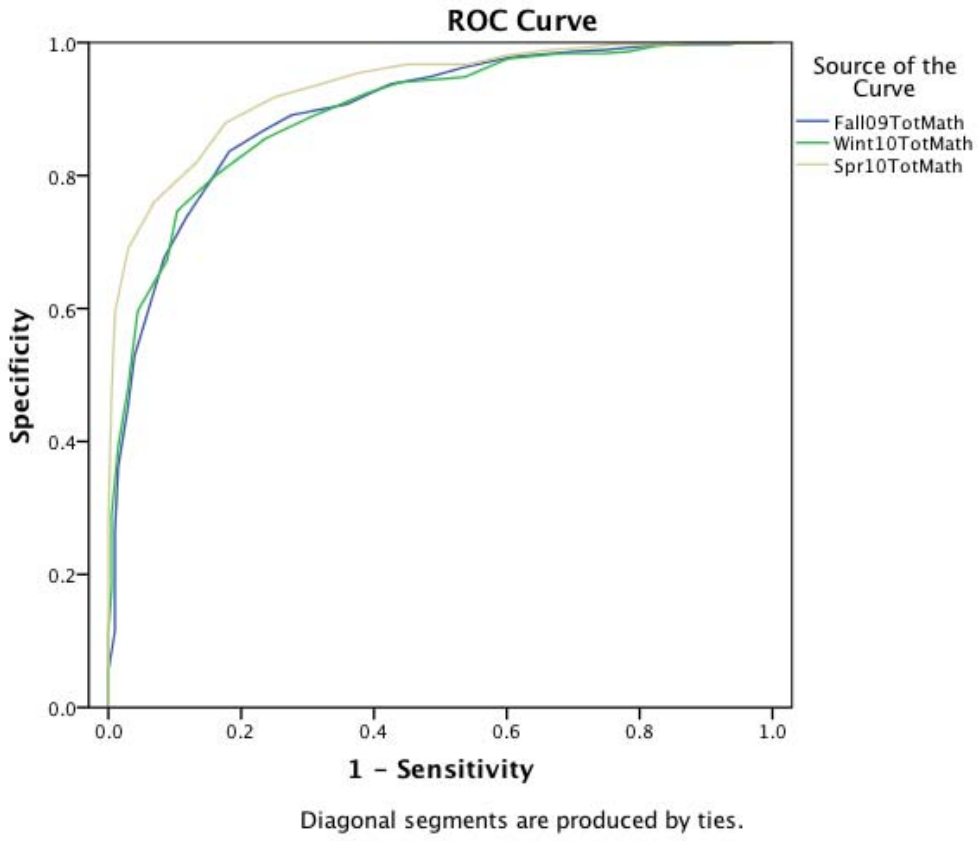
Grade 4

Case Processing Summary

MSP_PLC	Valid N (listwise)
Positive[a]	367
Negative	203
Missing	1358

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

a. The positive actual state is 1.



Area Under the Curve

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.895	.014	.000	.869	.922
Wint10TotMath	.896	.013	.000	.870	.922
Spr10TotMath	.932	.010	.000	.912	.951

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
13	0	1
14.5	0.005	1
15.5	0.015	1
16.5	0.03	1
17.5	0.044	1
18.5	0.049	1
19.5	0.064	0.997
20.5	0.099	0.997
21.5	0.128	0.997
22.5	0.167	0.997
23.5	0.251	0.989
24.5	0.3	0.986
25.5	0.394	0.978
26.5	0.468	0.962
27.5	0.517	0.948
28.5	0.576	0.937
29.5	0.64	0.907
30.5	0.724	0.891
31.5	0.768	0.866
32.5	**0.818**	**0.837**
33.5	0.847	0.79
34.5	0.882	0.738
35.5	0.916	0.676
36.5	0.936	0.61
37.5	0.961	0.529
38.5	0.97	0.452
39.5	0.985	0.362
40.5	0.99	0.264
41.5	0.99	0.177
42.5	0.99	0.114
43.5	1	0.054
44.5	1	0.016
46	1	0

FallCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	206	68	274
	Meets or exceeds	42	355	397
Total		248	423	671

Grade 4
Winter Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
16	0	1
17.5	0.01	1
18.5	0.03	1
19.5	0.039	1
20.5	0.049	1
21.5	0.054	1
22.5	0.079	1
23.5	0.103	1
24.5	0.143	0.997
25.5	0.177	0.995
26.5	0.217	0.986
27.5	0.256	0.984
28.5	0.32	0.984
29.5	0.399	0.975
30.5	0.463	0.948
31.5	0.562	0.94
32.5	0.611	0.924
33.5	0.695	0.888
34.5	0.764	0.856
35.5	**0.837**	**0.801**
36.5	0.897	0.747
37.5	0.911	0.673
38.5	0.956	0.597
39.5	0.97	0.48
40.5	0.985	0.392
41.5	0.995	0.289
42.5	0.995	0.183
43.5	1	0.112
44.5	1	0.041
46	1	0

WintCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	263	109	372
	Meets or exceeds	51	434	485
Total		314	543	857

Grade 4
Spring Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
9	0	1
11.5	0.005	1
14	0.01	1
15.5	0.015	1
16.5	0.02	1
18	0.025	1
19.5	0.03	1
20.5	0.034	1
21.5	0.059	1
22.5	0.074	1
23.5	0.084	1
24.5	0.094	1
25.5	0.128	1
26.5	0.158	0.997
27.5	0.197	0.997
28.5	0.241	0.997
29.5	0.291	0.992
30.5	0.335	0.989
31.5	0.399	0.981
32.5	0.458	0.967
33.5	0.552	0.967
34.5	0.626	0.954
35.5	0.7	0.932
36.5	0.749	0.918
37.5	0.823	0.88
38.5	**0.867**	**0.82**
39.5	0.931	0.76
40.5	0.97	0.689
41.5	0.99	0.594
42.5	0.995	0.471
43.5	1	0.283
44.5	1	0.128
46	1	0

SprCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	304	139	443
	Meets or exceeds	41	427	468
Total		345	566	911

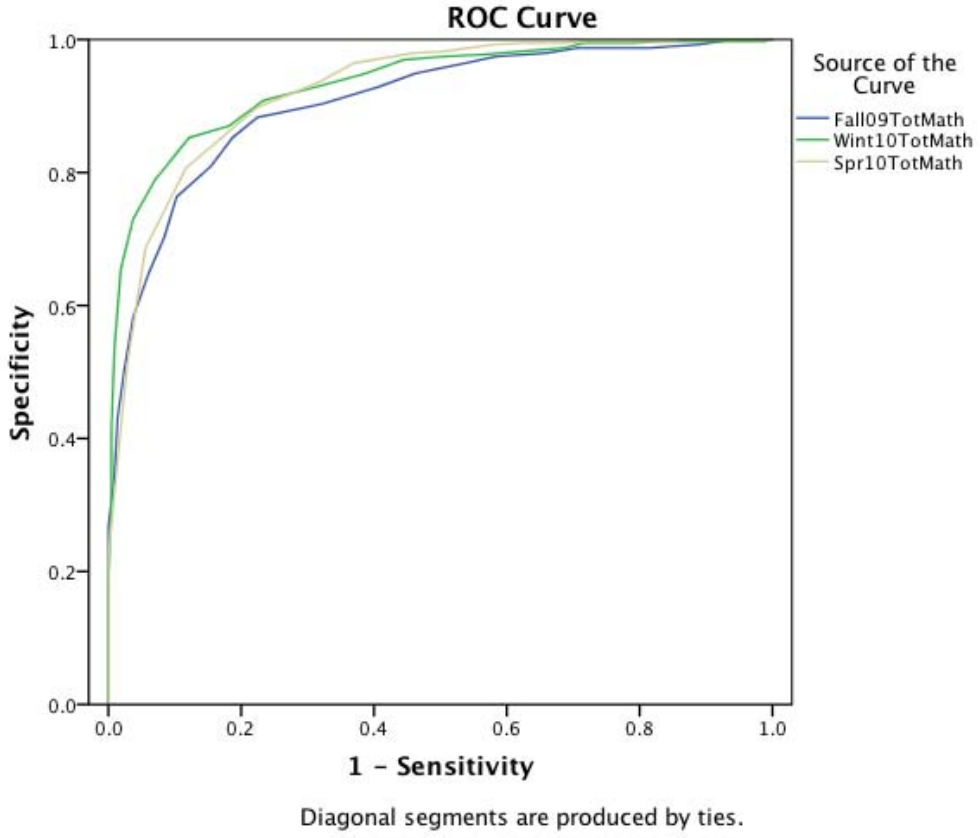
Grade 5

Case Processing Summary

MSP_PLC	Valid N (listwise)
Positive[a]	393
Negative	214
Missing	1289

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

a. The positive actual state is 1.



Area Under the Curve

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.906	.012	.000	.882	.929
Wint10TotMath	.933	.010	.000	.914	.953
Spr10TotMath	.924	.011	.000	.903	.945

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
13	0	1
14.5	0.005	1
15.5	0.014	1
16.5	0.047	1
17.5	0.061	1
18.5	0.079	0.997
19.5	0.112	0.992
20.5	0.15	0.99
21.5	0.187	0.987
22.5	0.229	0.987
23.5	0.294	0.987
24.5	0.341	0.98
25.5	0.416	0.975
26.5	0.463	0.964
27.5	0.537	0.949
28.5	0.593	0.929
29.5	0.678	0.903
30.5	0.776	0.883
31.5	0.813	0.852
32.5	**0.846**	**0.809**
33.5	0.897	0.763
34.5	0.916	0.702
35.5	0.939	0.649
36.5	0.963	0.583
37.5	0.977	0.499
38.5	0.986	0.433
39.5	0.991	0.346
40.5	1	0.267
41.5	1	0.211
42.5	1	0.13
43.5	1	0.079
44.5	1	0.038
46	1	0

FallCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	190	78	268
	Meets or exceeds	35	337	372
Total		225	415	640

Grade 5
Winter Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
13	0	1
15.5	0.005	1
17.5	0.009	0.997
18.5	0.019	0.997
19.5	0.037	0.997
20.5	0.042	0.997
21.5	0.075	0.997
22.5	0.112	0.997
23.5	0.173	0.997
24.5	0.21	0.995
25.5	0.248	0.995
26.5	0.285	0.995
27.5	0.313	0.987
28.5	0.379	0.982
29.5	0.439	0.977
30.5	0.495	0.975
31.5	0.556	0.969
32.5	0.612	0.949
33.5	0.678	0.931
34.5	0.766	0.908
35.5	0.818	0.87
36.5	**0.879**	**0.852**
37.5	0.93	0.789
38.5	0.963	0.73
39.5	0.981	0.654
40.5	0.991	0.537
41.5	0.995	0.415
42.5	0.995	0.31
43.5	1	0.176
44.5	1	0.076
46	1	0

WintCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	251	78	329
	Meets or exceeds	38	409	447
Total		289	487	776

Grade 5
Spring Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
16	0	1
17.5	0.005	1
18.5	0.009	1
19.5	0.014	1
21	0.028	1
22.5	0.07	1
23.5	0.093	1
24.5	0.107	1
25.5	0.14	1
26.5	0.145	0.997
27.5	0.178	0.997
28.5	0.187	0.997
29.5	0.215	0.997
30.5	0.229	0.997
31.5	0.252	0.997
32.5	0.28	0.997
33.5	0.318	0.995
34.5	0.374	0.995
35.5	0.421	0.992
36.5	0.495	0.982
37.5	0.542	0.98
38.5	0.631	0.964
39.5	0.687	0.934
40.5	0.776	0.898
41.5	**0.883**	**0.807**
42.5	0.944	0.687
43.5	0.972	0.509
44.5	1	0.224
46	1	0

SprCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	361	170	531
	Meets or exceeds	45	466	511
Total		406	636	1042

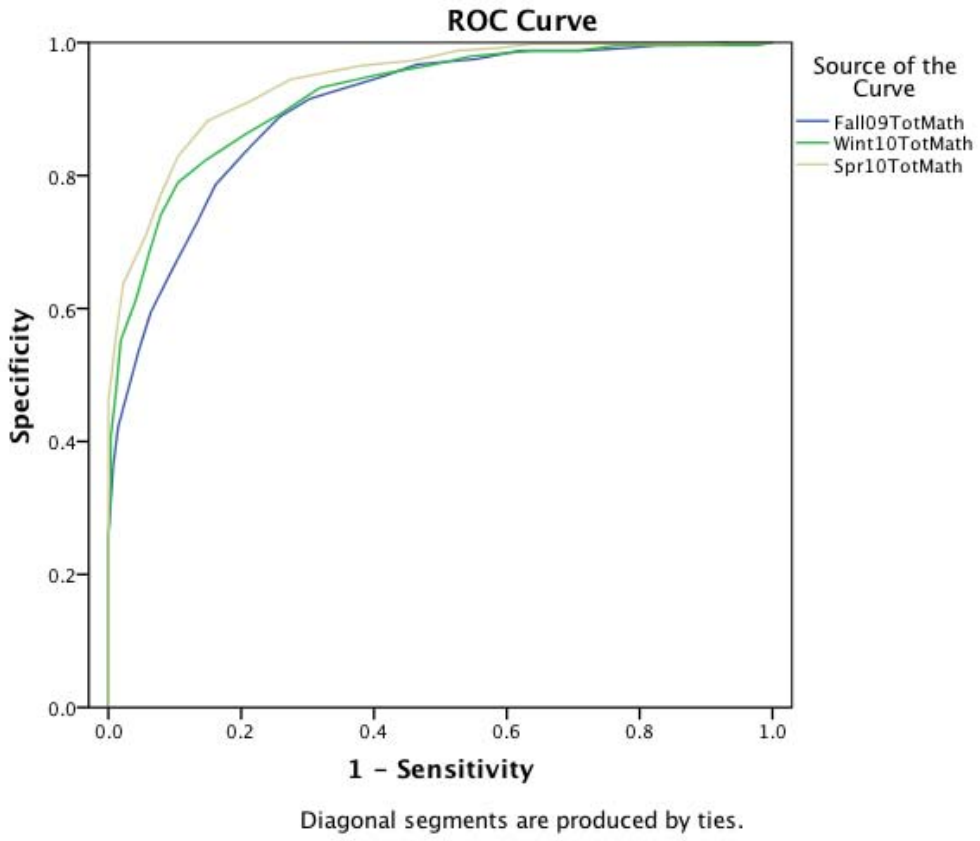
Grade 6

Case Processing Summary

MSP_PLC	Valid N (listwise)
Positive[a]	485
Negative	267
Missing	1100

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

a. The positive actual state is 1.



Area Under the Curve

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.900	.011	.000	.878	.922
Wint10TotMath	.919	.010	.000	.900	.938
Spr10TotMath	.940	.008	.000	.925	.956

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
11	0	1
13	0.004	1
14.5	0.011	1
15.5	0.022	1
16.5	0.045	1
17.5	0.067	1
18.5	0.101	0.998
19.5	0.135	0.996
20.5	0.172	0.996
21.5	0.217	0.992
22.5	0.288	0.988
23.5	0.382	0.988
24.5	0.446	0.975
25.5	0.536	0.967
26.5	0.588	0.948
27.5	0.697	0.915
28.5	0.742	0.889
29.5	0.787	0.843
30.5	0.839	0.786
31.5	**0.865**	**0.732**
32.5	0.906	0.654
33.5	0.936	0.594
34.5	0.955	0.534
35.5	0.97	0.478
36.5	0.985	0.423
37.5	0.993	0.365
38.5	0.996	0.313
39.5	1	0.254
40.5	1	0.21
41.5	1	0.159
42.5	1	0.118
43.5	1	0.078
44.5	1	0.039
46	1	0

FallCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	263	141	404
	Meets or exceeds	39	386	425
Total		302	527	829

Grade 6
Winter Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
12	0	1
14	0.004	1
15.5	0.011	0.998
16.5	0.022	0.996
17.5	0.041	0.996
18.5	0.06	0.996
19.5	0.075	0.996
20.5	0.112	0.996
21.5	0.142	0.996
22.5	0.184	0.996
23.5	0.232	0.996
24.5	0.292	0.988
25.5	0.363	0.988
26.5	0.453	0.979
27.5	0.521	0.965
28.5	0.599	0.951
29.5	0.682	0.932
30.5	0.738	0.895
31.5	0.794	0.862
32.5	**0.854**	**0.823**
33.5	0.895	0.79
34.5	0.921	0.74
35.5	0.94	0.678
36.5	0.959	0.612
37.5	0.981	0.553
38.5	0.989	0.472
39.5	0.996	0.408
40.5	0.996	0.33
41.5	1	0.252
42.5	1	0.179
43.5	1	0.101
44.5	1	0.043
46	1	0

WintCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	257	98	355
	Meets or exceeds	43	432	475
Total		300	530	830

Grade 6
Spring Benchmark – Full Sample

Cut Score	Specificity	Sensitivity
11	0	1
12.5	0.007	1
13.5	0.015	1
15	0.022	1
16.5	0.03	1
17.5	0.041	1
18.5	0.049	1
19.5	0.06	1
20.5	0.064	1
21.5	0.079	0.998
22.5	0.094	0.998
23.5	0.127	0.998
24.5	0.146	0.998
25.5	0.18	0.998
26.5	0.199	0.998
27.5	0.24	0.998
28.5	0.292	0.998
29.5	0.363	0.998
30.5	0.412	0.992
31.5	0.476	0.988
32.5	0.539	0.973
33.5	0.622	0.965
34.5	0.727	0.944
35.5	0.783	0.913
36.5	0.85	0.882
37.5	**0.895**	**0.829**
38.5	0.921	0.771
39.5	0.944	0.709
40.5	0.978	0.637
41.5	0.989	0.557
42.5	1	0.46
43.5	1	0.305
44.5	1	0.124
46	1	0

SprCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	582	219	801
	Meets or exceeds	72	795	867
Total		654	1014	1668

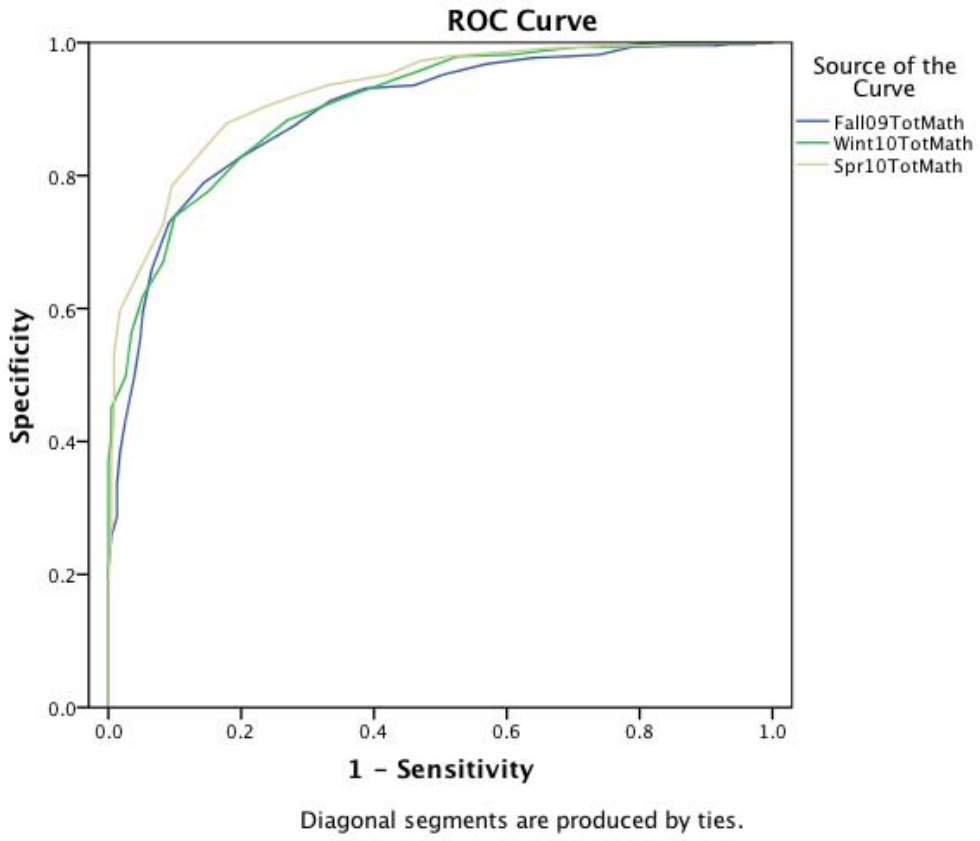
Grade 7

Case Processing Summary

MSP_PLC	Valid N (listwise)
Positive[a]	436
Negative	230
Missing	1164

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

a. The positive actual state is 1.



Area Under the Curve

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.896	.012	.000	.872	.920
Wint10TotMath	.906	.011	.000	.884	.928
Spr10TotMath	.926	.010	.000	.907	.945

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
8	0	1
9.5	0.004	1
10.5	0.009	1
11.5	0.022	1
12.5	0.026	0.998
13.5	0.048	0.998
14.5	0.065	0.998
15.5	0.083	0.995
16.5	0.122	0.995
17.5	0.157	0.995
18.5	0.213	0.993
19.5	0.261	0.982
20.5	0.309	0.979
21.5	0.361	0.977
22.5	0.43	0.968
23.5	0.496	0.952
24.5	0.539	0.936
25.5	0.613	0.931
26.5	0.665	0.913
27.5	0.722	0.874
28.5	**0.8**	**0.828**
29.5	0.857	0.789
30.5	0.909	0.729
31.5	0.935	0.658
32.5	0.948	0.596
33.5	0.952	0.553
34.5	0.961	0.498
35.5	0.974	0.433
36.5	0.983	0.383
37.5	0.987	0.335
38.5	0.987	0.287
39.5	0.996	0.257
40.5	1	0.204
41.5	1	0.154
42.5	1	0.108
43.5	1	0.073
44.5	1	0.032
46	1	0

FallCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	219	85	304
	Meets or exceeds	54	395	449
Total		273	480	753

Grade 7
Winter Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
10	0	1
11.5	0.009	1
12.5	0.03	1
13.5	0.043	1
14.5	0.052	1
15.5	0.087	1
16.5	0.113	1
17.5	0.17	1
18.5	0.204	0.998
19.5	0.235	0.993
20.5	0.291	0.993
21.5	0.339	0.989
22.5	0.391	0.982
23.5	0.474	0.979
24.5	0.535	0.956
25.5	0.574	0.943
26.5	0.643	0.917
27.5	0.73	0.883
28.5	**0.8**	**0.828**
29.5	0.848	0.778
30.5	0.9	0.739
31.5	0.917	0.67
32.5	0.948	0.619
33.5	0.965	0.564
34.5	0.974	0.498
35.5	0.996	0.45
36.5	0.996	0.406
37.5	1	0.372
38.5	1	0.326
39.5	1	0.289
40.5	1	0.241
41.5	1	0.19
42.5	1	0.138
43.5	1	0.076
44.5	1	0.034
46	1	0

WintCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	213	87	300
	Meets or exceeds	54	418	472
Total		267	505	772

Grade 7
Spring Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
11	0	1
12.5	0.004	1
13.5	0.017	1
14.5	0.035	1
15.5	0.052	1
16.5	0.07	1
17.5	0.096	0.998
18.5	0.122	0.998
19.5	0.157	0.998
20.5	0.196	0.995
21.5	0.226	0.995
22.5	0.252	0.995
23.5	0.291	0.993
24.5	0.348	0.991
25.5	0.396	0.986
26.5	0.487	0.979
27.5	0.53	0.972
28.5	0.578	0.952
29.5	0.67	0.936
30.5	0.726	0.917
31.5	0.77	0.901
32.5	0.822	0.878
33.5	**0.857**	**0.839**
34.5	0.904	0.784
35.5	0.917	0.727
36.5	0.952	0.658
37.5	0.983	0.596
38.5	0.991	0.532
39.5	0.991	0.443
40.5	0.996	0.374
41.5	0.996	0.268
42.5	1	0.183
43.5	1	0.117
44.5	1	0.046
46	1	0

SprCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	582	209	791
	Meets or exceeds	71	728	799
Total		653	937	1590

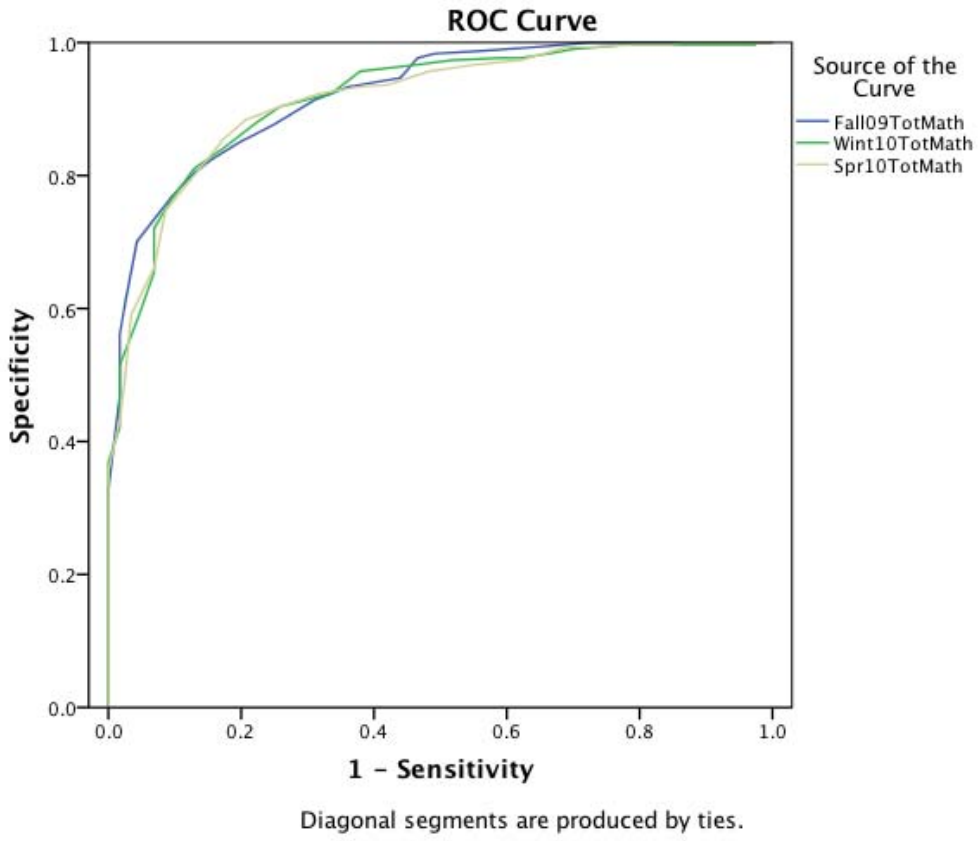
Grade 8

Case Processing Summary

MSP_PLC	Valid N (listwise)
Positive[a]	301
Negative	116
Missing	2044

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

a. The positive actual state is 1.



Area Under the Curve

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.922	.013	.000	.895	.948
Wint10TotMath	.916	.014	.000	.888	.944
Spr10TotMath	.914	.014	.000	.885	.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

Grade 8
Fall Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
10	0	1
12	0.009	1
13.5	0.034	1
14.5	0.043	1
15.5	0.06	1
16.5	0.078	1
17.5	0.103	1
18.5	0.147	1
19.5	0.207	1
20.5	0.276	1
21.5	0.353	0.993
22.5	0.448	0.987
23.5	0.509	0.983
24.5	0.534	0.977
25.5	0.56	0.947
26.5	0.638	0.934
27.5	0.69	0.914
28.5	0.75	0.877
29.5	0.802	0.85
30.5	0.845	0.824
31.5	**0.871**	**0.804**
32.5	0.905	0.767
33.5	0.957	0.701
34.5	0.974	0.611
35.5	0.983	0.561
36.5	0.983	0.525
37.5	0.983	0.468
38.5	0.991	0.399
39.5	1	0.326
40.5	1	0.269
41.5	1	0.216
42.5	1	0.153
43.5	1	0.1
44.5	1	0.053
46	1	0

FallCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	127	74	201
	Meets or exceeds	20	292	312
Total		147	366	513

Grade 8
Winter Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
9	0	1
11	0.009	1
12.5	0.017	1
13.5	0.026	1
14.5	0.026	0.997
15.5	0.034	0.997
16.5	0.052	0.997
17.5	0.078	0.997
18.5	0.129	0.997
19.5	0.19	0.997
20.5	0.224	0.997
21.5	0.259	0.993
22.5	0.302	0.99
23.5	0.336	0.983
24.5	0.379	0.977
25.5	0.414	0.977
26.5	0.483	0.973
27.5	0.534	0.967
28.5	0.621	0.957
29.5	0.647	0.937
30.5	0.664	0.924
31.5	0.741	0.904
32.5	0.776	0.88
33.5	0.828	0.841
34.5	**0.871**	**0.811**
35.5	0.905	0.764
36.5	0.931	0.721
37.5	0.931	0.654
38.5	0.957	0.581
39.5	0.983	0.515
40.5	0.983	0.422
41.5	1	0.369
42.5	1	0.252
43.5	1	0.156
44.5	1	0.047
46	1	0

WintCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	198	102	300
	Meets or exceeds	22	314	336
Total		220	416	636

Grade 8
Spring Benchmark – Full Sample

Cut Score	Sensitivity	Specificity
10	0	1
11.5	0.009	1
12.5	0.017	1
13.5	0.034	1
14.5	0.052	1
15.5	0.06	1
16.5	0.069	1
17.5	0.086	1
18.5	0.103	1
19.5	0.138	1
20.5	0.155	0.997
21.5	0.207	0.997
22.5	0.276	0.993
23.5	0.31	0.993
24.5	0.345	0.983
25.5	0.379	0.973
26.5	0.448	0.967
27.5	0.517	0.957
28.5	0.578	0.937
29.5	0.621	0.934
30.5	0.681	0.924
31.5	0.741	0.904
32.5	0.793	0.884
33.5	0.828	0.854
34.5	**0.862**	**0.811**
35.5	0.914	0.748
36.5	0.931	0.661
37.5	0.966	0.591
38.5	0.974	0.502
39.5	0.983	0.432
40.5	1	0.355
41.5	1	0.289
42.5	1	0.199
43.5	1	0.1
44.5	1	0.043
46	1	0

SprCut * MSP_PLC Crosstabulation

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	466	201	667
	Meets or exceeds	114	681	795
Total		580	882	1462

Student Subgroup: American Indian/Alaskan Native

Grade 3

Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	0
Negative	1
Missing	49

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC	
		0	Total
FallCut	Does not meet	2	2
Total		2	2

a. EthnicCd = American Indian/Alakan Native

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	6	3	9
	Meets or exceeds	0	3	3
Total		6	6	12

a. EthnicCd = American Indian/Alakan Native

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	8	3	11
	Meets or exceeds	0	5	5
Total		8	8	16

a. EthnicCd = American Indian/Alakan Native

Grade 4

Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	3
Negative	4
Missing	32

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	4	0	4
	Meets or exceeds	0	4	4
Total		4	4	8

a. EthnicCd = American Indian/Alakan Native

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	5	4	9
	Meets or exceeds	3	1	4
Total		8	5	13

a. EthnicCd = American Indian/Alakan Native

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	5	1	6
	Meets or exceeds	1	4	5
Total		6	5	11

a. EthnicCd = American Indian/Alakan Native

Grade 5

Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	4
Negative	5
Missing	39

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

a. The positive actual state is 1.

b. EthnicCd = American Indian/Alakan Native

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	4	2	6
	Meets or exceeds	1	3	4
Total		5	5	10

a. EthnicCd = American Indian/Alakan Native

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	6	2	8
	Meets or exceeds	3	6	9
Total		9	8	17

a. EthnicCd = American Indian/Alakan Native

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	10	2	12
	Meets or exceeds	0	5	5
Total		10	7	17

a. EthnicCd = American Indian/Alakan Native

Grade 6

Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	6
Negative	13
Missing	35

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

a. The positive actual state is 1.

b. EthnicCd = American Indian/Alakan Native

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	14	4	18
	Meets or exceeds	1	2	3
Total		15	6	21

a. EthnicCd = American Indian/Alakan Native

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	11	3	14
	Meets or exceeds	4	4	8
Total		15	7	22

a. EthnicCd = American Indian/Alakan Native

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	27	6	33
	Meets or exceeds	2	9	11
Total		29	15	44

a. EthnicCd = American Indian/Alakan Native

Grade 7

Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	8
Negative	8
Missing	24

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

a. The positive actual state is 1.

b. EthnicCd = American Indian/Alakan Native

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	7	2	9
	Meets or exceeds	2	6	8
Total		9	8	17

a. EthnicCd = American Indian/Alakan Native

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	8	2	10
	Meets or exceeds	1	6	7
Total		9	8	17

a. EthnicCd = American Indian/Alakan Native

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	17	6	23
	Meets or exceeds	1	8	9
Total		18	14	32

a. EthnicCd = American Indian/Alakan Native

Grade 8

Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	3
Negative	3
Missing	80

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

a. The positive actual state is 1.

b. EthnicCd = American Indian/Alakan Native

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	3	0	3
	Meets or exceeds	0	4	4
Total		3	4	7

a. EthnicCd = American Indian/Alakan Native

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	6	1	7
	Meets or exceeds	0	3	3
Total		6	4	10

a. EthnicCd = American Indian/Alakan Native

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	26	5	31
	Meets or exceeds	2	20	22
Total		28	25	53

a. EthnicCd = American Indian/Alakan Native

Student Subgroup: Asian/Pacific Islander

Grade 3

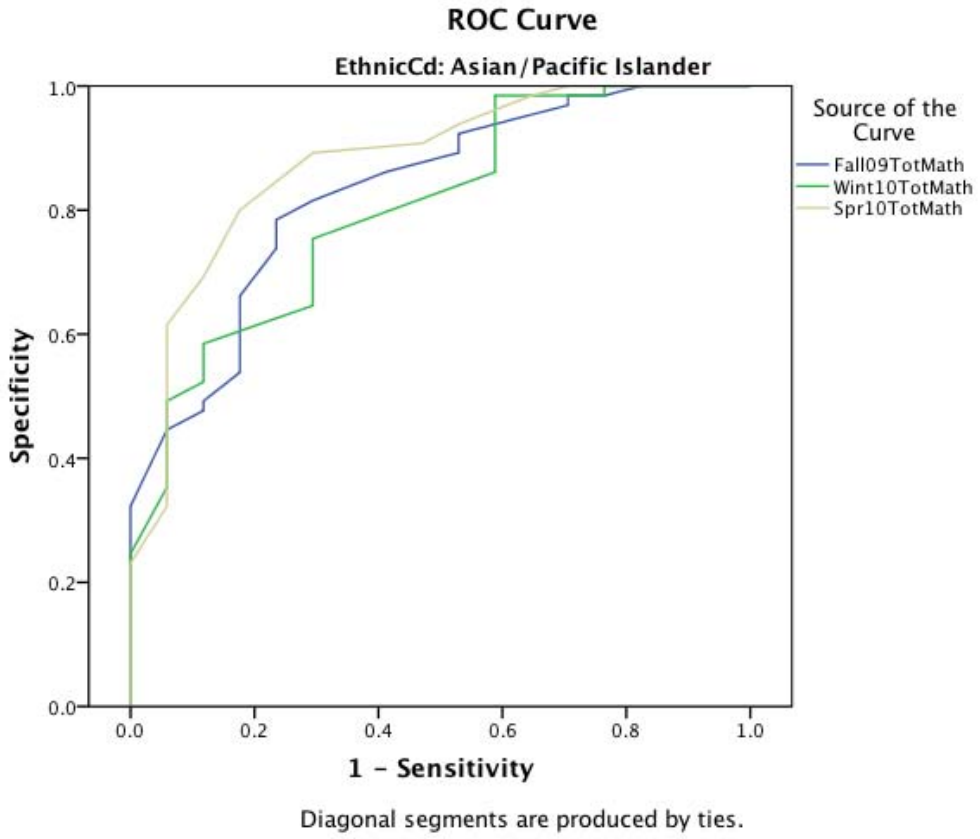
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	65
Negative	17
Missing	148

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

a. The positive actual state is 1.

b. EthnicCd = Asian/Pacific Islander



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.830	.054	.000	.725	.935
Wint10TotMath	.803	.057	.000	.691	.914
Spr10TotMath	.877	.048	.000	.782	.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 = Asian/Pacific Islander

Grade 3
Fall Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
17	0	1
19	0.059	1
20.5	0.118	1
21.5	0.176	1
22.5	0.235	0.985
24	0.294	0.985
25.5	0.294	0.969
26.5	0.471	0.923
27.5	0.471	0.892
28.5	0.588	0.862
29.5	0.706	0.815
30.5	**0.765**	**0.785**
31.5	0.765	0.738
32.5	0.824	0.662
33.5	0.824	0.538
34.5	0.882	0.492
35.5	0.882	0.477
36.5	0.941	0.446
37.5	1	0.323
38.5	1	0.262
39.5	1	0.215
40.5	1	0.154
41.5	1	0.092
42.5	1	0.046
43.5	1	0.015
45	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	18	16	34
	Meets or exceeds	4	57	61
Total		22	73	95

a. EthnicCd = Asian/Pacific Islander

Grade 3
Winter Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
22	0	1
23.5	0.059	1
25	0.118	1
26.5	0.235	1
27.5	0.235	0.985
28.5	0.294	0.985
29.5	0.353	0.985
30.5	0.412	0.985
31.5	0.412	0.938
32.5	0.412	0.862
33.5	0.706	0.754
34.5	0.706	0.646
35.5	**0.882**	**0.585**
36.5	0.882	0.523
37.5	0.941	0.492
38.5	0.941	0.385
39.5	0.941	0.354
40.5	1	0.246
41.5	1	0.2
42.5	1	0.169
43.5	1	0.077
44.5	1	0.046
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	15	27	42
	Meets or exceeds	6	50	56
Total		21	77	98

a. EthnicCd = Asian/Pacific Islander

Grade 3
Spring Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
24	0	1
26	0.118	1
28	0.176	1
29.5	0.235	1
31	0.294	1
32.5	0.353	0.985
33.5	0.471	0.938
35	0.529	0.908
36.5	0.706	0.892
37.5	0.824	0.8
38.5	**0.882**	**0.692**
39.5	0.941	0.615
40.5	0.941	0.446
41.5	0.941	0.323
42.5	1	0.231
43.5	1	0.138
44.5	1	0.092
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	27	31	58
	Meets or exceeds	4	64	68
Total		31	95	126

a. EthnicCd = Asian/Pacific Islander

Grade 4

Case Processing Summary[c]

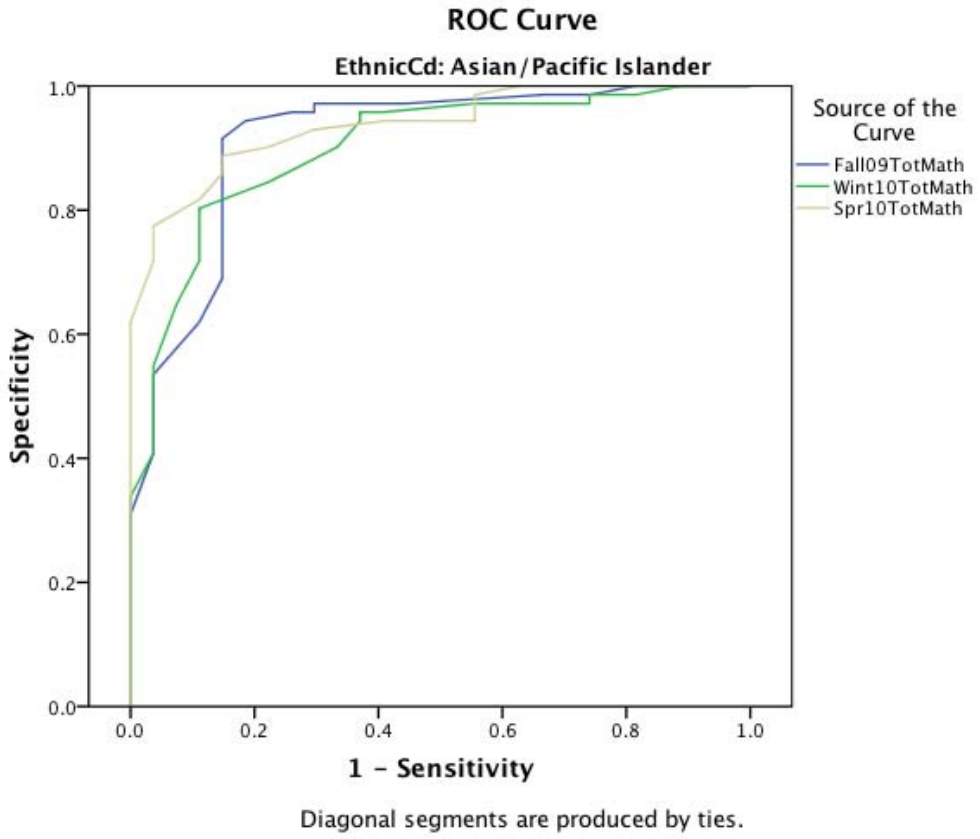
MSP_PLC[a]	Valid N (listwise)
Positive[b]	71
Negative	27
Missing	124

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

a. The test result variable(s): 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 1.

c. EthnicCd = Asian/Pacific Islander



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.914	.035	.000	.846	.982
Wint10TotMath	.900	.034	.000	.834	.966
Spr10TotMath	.937	.023	.000	.891	.982

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
19	0	1
20.5	0.037	1
21.5	0.074	1
22.5	0.185	1
23.5	0.259	0.986
24.5	0.333	0.986
25.5	0.556	0.972
26.5	0.704	0.972
27.5	0.704	0.958
28.5	0.741	0.958
29.5	0.815	0.944
30.5	0.852	0.915
31.5	0.852	0.901
32.5	**0.852**	**0.859**
33.5	0.852	0.817
34.5	0.852	0.775
35.5	0.852	0.69
36.5	0.889	0.62
37.5	0.963	0.535
38.5	0.963	0.479
39.5	0.963	0.408
40.5	1	0.31
41.5	1	0.169
42.5	1	0.113
43.5	1	0.07
44.5	1	0.014
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	29	14	43
	Meets or exceeds	4	68	72
Total		33	82	115

a. EthnicCd = Asian/Pacific Islander

Grade 4
Winter Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
16	0	1
17.5	0.037	1
21	0.074	1
24.5	0.111	1
25.5	0.185	0.986
26.5	0.259	0.986
27.5	0.259	0.972
28.5	0.296	0.972
29.5	0.444	0.972
31	0.593	0.958
32.5	0.63	0.958
33.5	0.63	0.944
34.5	0.667	0.901
35.5	**0.778**	**0.845**
36.5	0.889	0.803
37.5	0.889	0.718
38.5	0.926	0.648
39.5	0.963	0.549
40.5	0.963	0.408
41.5	1	0.338
42.5	1	0.225
43.5	1	0.197
44.5	1	0.085
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	28	12	40
	Meets or exceeds	7	76	83
Total		35	88	123

a. EthnicCd = Asian/Pacific Islander

Grade 4
Spring Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
12	0	1
17	0.037	1
23	0.074	1
25.5	0.185	1
26.5	0.222	1
27.5	0.259	1
28.5	0.296	1
29.5	0.333	1
30.5	0.37	1
31.5	0.444	0.986
32.5	0.444	0.944
33.5	0.593	0.944
34.5	0.704	0.93
35.5	0.778	0.901
36.5	0.852	0.887
37.5	0.852	0.859
38.5	**0.889**	**0.817**
39.5	0.963	0.775
40.5	0.963	0.718
41.5	1	0.62
42.5	1	0.493
43.5	1	0.324
44.5	1	0.127
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	34	20	54
	Meets or exceeds	3	69	72
Total		37	89	126

a. EthnicCd = Asian/Pacific Islander

Grade 5

Case Processing Summary[c]

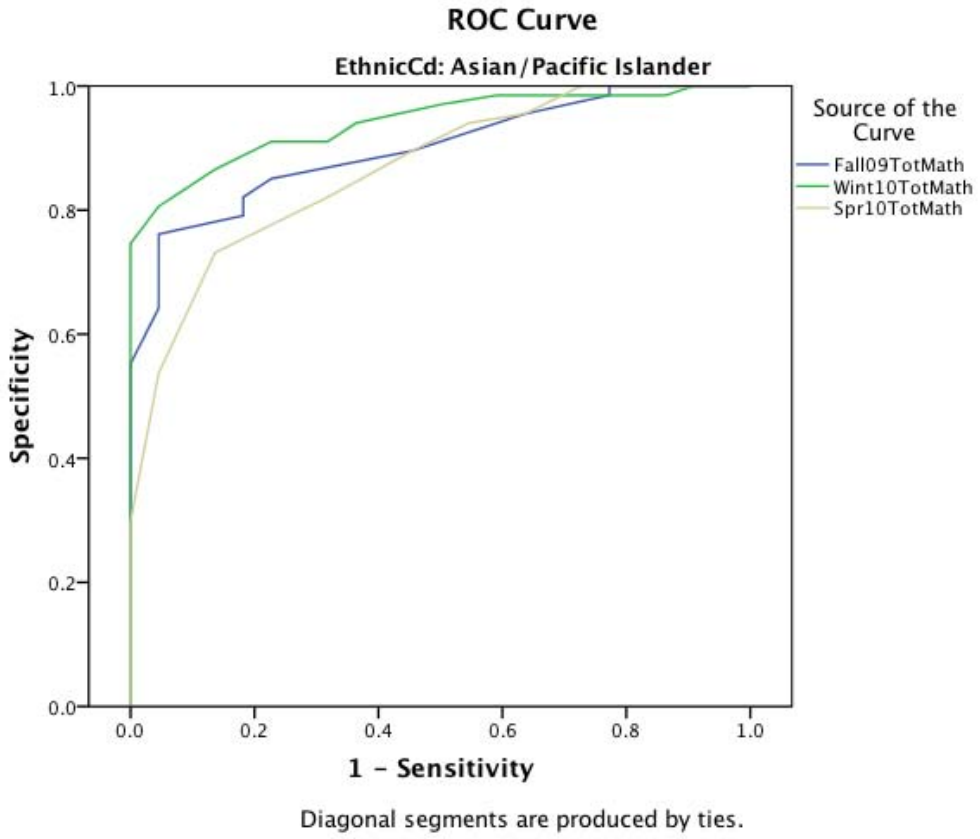
MSP_PLC[a]	Valid N (listwise)
Positive[b]	67
Negative	22
Missing	128

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

a. The test result variable(s): 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 1.

c. EthnicCd = Asian/Pacific Islander



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.897	.033	.000	.833	.961
Wint10TotMath	.941	.023	.000	.895	.986
Spr10TotMath	.866	.041	.000	.787	.945

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
18	0	1
21.5	0.091	1
24.5	0.136	1
25.5	0.227	1
26.5	0.227	0.985
27.5	0.364	0.955
28.5	0.409	0.94
29.5	0.545	0.896
30.5	0.773	0.851
31.5	0.818	0.821
32.5	**0.818**	**0.791**
33.5	0.955	0.761
35	0.955	0.701
36.5	0.955	0.642
37.5	1	0.552
38.5	1	0.522
39.5	1	0.448
40.5	1	0.373
41.5	1	0.239
42.5	1	0.164
43.5	1	0.134
44.5	1	0.045
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	18	15	33
	Meets or exceeds	4	54	58
Total		22	69	91

a. EthnicCd = Asian/Pacific Islander

Grade 5
Winter Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
19	0	1
21.5	0.045	1
25.5	0.091	1
28.5	0.136	0.985
29.5	0.182	0.985
30.5	0.273	0.985
31.5	0.318	0.985
32.5	0.409	0.985
33.5	0.5	0.97
34.5	0.636	0.94
35.5	0.682	0.91
36.5	**0.773**	**0.91**
37.5	0.864	0.866
38.5	0.955	0.806
39.5	1	0.746
40.5	1	0.687
41.5	1	0.537
42.5	1	0.358
43.5	1	0.224
44.5	1	0.119
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	20	6	26
	Meets or exceeds	5	66	71
Total		25	72	97

a. EthnicCd = Asian/Pacific Islander

Grade 5
Spring Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
22	1	0
26	1	0.045
31.5	1	0.091
34.5	1	0.136
35.5	1	0.182
36.5	1	0.227
37.5	1	0.273
38.5	0.955	0.364
39.5	0.94	0.455
40.5	0.896	0.545
41.5	**0.821**	**0.682**
42.5	0.731	0.864
43.5	0.537	0.955
44.5	0.299	1
46	0	1

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	31	26	57
	Meets or exceeds	8	73	81
Total		39	99	138

a. EthnicCd = Asian/Pacific Islander

Grade 6

Case Processing Summary[c]

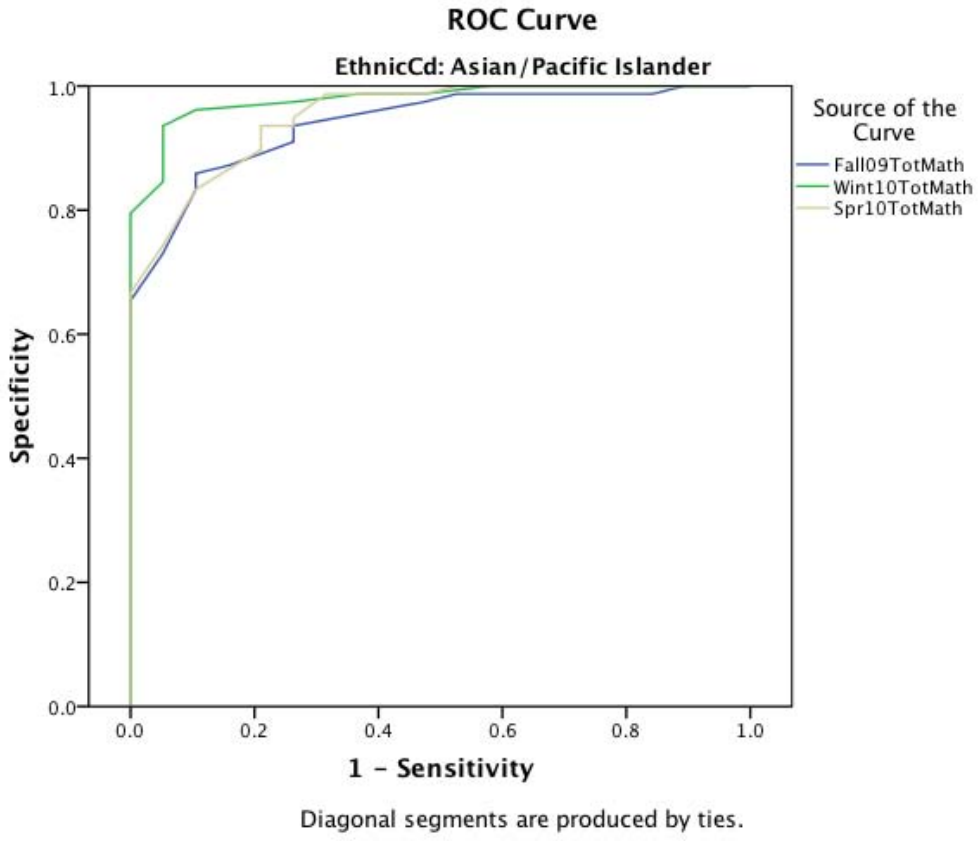
MSP_PLC[a]	Valid N (listwise)
Positive[b]	78
Negative	19
Missing	115

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 1.

c. EthnicCd = Asian/Pacific Islander



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.939	.025	.000	.890	.988
Wint10TotMath	.979	.013	.000	.954	1.000
Spr10TotMath	.952	.022	.000	.908	.996

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
16	1	0
18.5	1	0.053
20.5	1	0.105
22	0.987	0.158
24	0.987	0.316
25.5	0.987	0.474
26.5	0.974	0.526
27.5	0.936	0.737
28.5	0.91	0.737
29.5	0.872	0.842
30.5	0.859	0.895
31.5	**0.833**	**0.895**
32.5	0.731	0.947
33.5	0.654	1
34.5	0.577	1
35.5	0.538	1
36.5	0.474	1
38	0.397	1
39.5	0.269	1
40.5	0.231	1
42	0.154	1
43.5	0.103	1
44.5	0.038	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	19	14	33
	Meets or exceeds	3	68	71
Total		22	82	104

a. EthnicCd = Asian/Pacific Islander

Grade 6
Winter Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
18	0	1
19.5	0.053	1
21	0.105	1
22.5	0.158	1
23.5	0.316	1
25	0.421	1
26.5	0.526	0.987
27.5	0.579	0.987
28.5	0.632	0.987
29.5	0.737	0.974
30.5	0.895	0.962
31.5	0.947	0.936
32.5	**0.947**	**0.91**
33.5	0.947	0.897
34.5	0.947	0.846
35.5	1	0.795
36.5	1	0.731
37.5	1	0.667
38.5	1	0.551
39.5	1	0.436
40.5	1	0.385
41.5	1	0.282
42.5	1	0.218
43.5	1	0.103
44.5	1	0.038
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	21	16	37
	Meets or exceeds	1	70	71
Total		22	86	108

a. EthnicCd = Asian/Pacific Islander

Grade 6
Spring Benchmark – Asian/Pacific Islander

Cut score	Specificity	Sensitivity
12	0	1
16	0.053	1
23	0.105	1
27.5	0.158	1
28.5	0.316	1
29.5	0.368	1
30.5	0.421	1
31.5	0.474	1
32.5	0.526	0.987
33.5	0.684	0.987
34.5	0.737	0.949
35.5	0.737	0.936
36.5	0.789	0.936
37.5	**0.789**	**0.897**
38.5	0.895	0.833
39.5	0.947	0.744
40.5	1	0.667
41.5	1	0.564
42.5	1	0.436
43.5	1	0.321
44.5	1	0.128
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	43	29	72
	Meets or exceeds	6	114	120
Total		49	143	192

a. EthnicCd = Asian/Pacific Islander

Grade 7

Case Processing Summary[c]

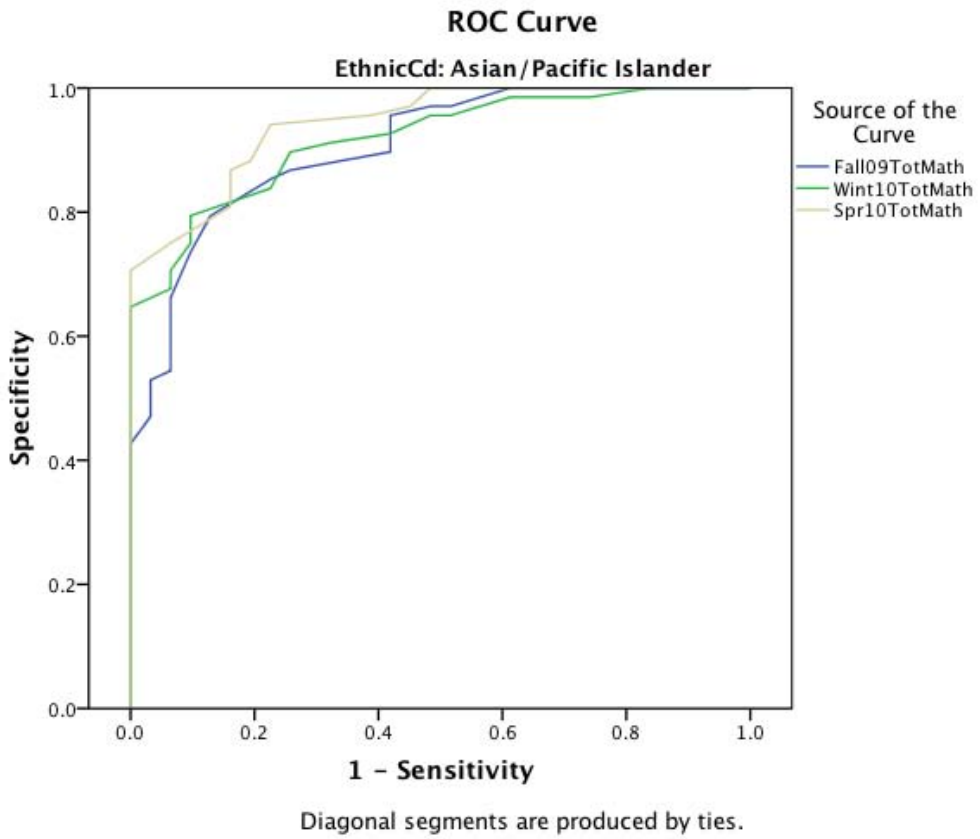
MSP_PLC[a]	Valid N (listwise)
Positive[b]	68
Negative	31
Missing	127

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 1.

c. EthnicCd = Asian/Pacific Islander



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.905	.031	.000	.845	.965
Wint10TotMath	.917	.027	.000	.864	.969
Spr10TotMath	.943	.021	.000	.902	.984

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	1	0
14	1	0.032
15.5	1	0.065
16.5	1	0.097
18.5	1	0.161
20.5	1	0.194
21.5	1	0.258
22.5	1	0.355
23.5	1	0.387
24.5	0.971	0.484
25.5	0.971	0.516
26.5	0.956	0.581
27.5	0.897	0.581
28.5	**0.868**	**0.742**
29.5	0.853	0.774
30.5	0.794	0.871
31.5	0.735	0.903
33	0.662	0.935
34.5	0.632	0.935
35.5	0.588	0.935
36.5	0.544	0.935
37.5	0.529	0.968
38.5	0.471	0.968
39.5	0.426	1
40.5	0.279	1
41.5	0.191	1
42.5	0.118	1
43.5	0.088	1
44.5	0.059	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	30	12	42
	Meets or exceeds	8	61	69
Total		38	73	111

a. EthnicCd = Asian/Pacific Islander

Grade 7
Winter Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
11	0	1
13.5	0.065	1
16	0.097	1
18.5	0.129	1
20.5	0.161	1
21.5	0.258	0.985
23	0.387	0.985
24.5	0.484	0.956
25.5	0.516	0.956
26.5	0.581	0.926
27.5	0.677	0.912
28.5	**0.742**	**0.897**
29.5	0.774	0.838
30.5	0.903	0.794
31.5	0.903	0.779
32.5	0.903	0.75
33.5	0.935	0.706
34.5	0.935	0.676
35.5	1	0.647
36.5	1	0.603
37.5	1	0.574
38.5	1	0.515
39.5	1	0.471
40.5	1	0.368
41.5	1	0.279
42.5	1	0.162
43.5	1	0.074
44.5	1	0.015
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	27	13	40
	Meets or exceeds	9	65	74
Total		36	78	114

a. EthnicCd = Asian/Pacific Islander

Grade 7
Spring Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
13	0	1
15.5	0.032	1
19	0.065	1
21.5	0.097	1
22.5	0.129	1
23.5	0.161	1
24.5	0.194	1
25.5	0.29	1
26.5	0.355	1
27.5	0.419	1
28.5	0.452	1
29.5	0.516	1
30.5	0.548	0.971
31.5	0.613	0.956
32.5	0.774	0.941
33.5	**0.806**	**0.882**
34.5	0.839	0.868
35.5	0.839	0.809
36.5	0.935	0.75
37.5	1	0.706
38.5	1	0.618
39.5	1	0.5
40.5	1	0.471
41.5	1	0.338
42.5	1	0.279
43.5	1	0.176
44.5	1	0.088
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	59	24	83
	Meets or exceeds	11	109	120
Total		70	133	203

a. EthnicCd = Asian/Pacific Islander

Grade 8

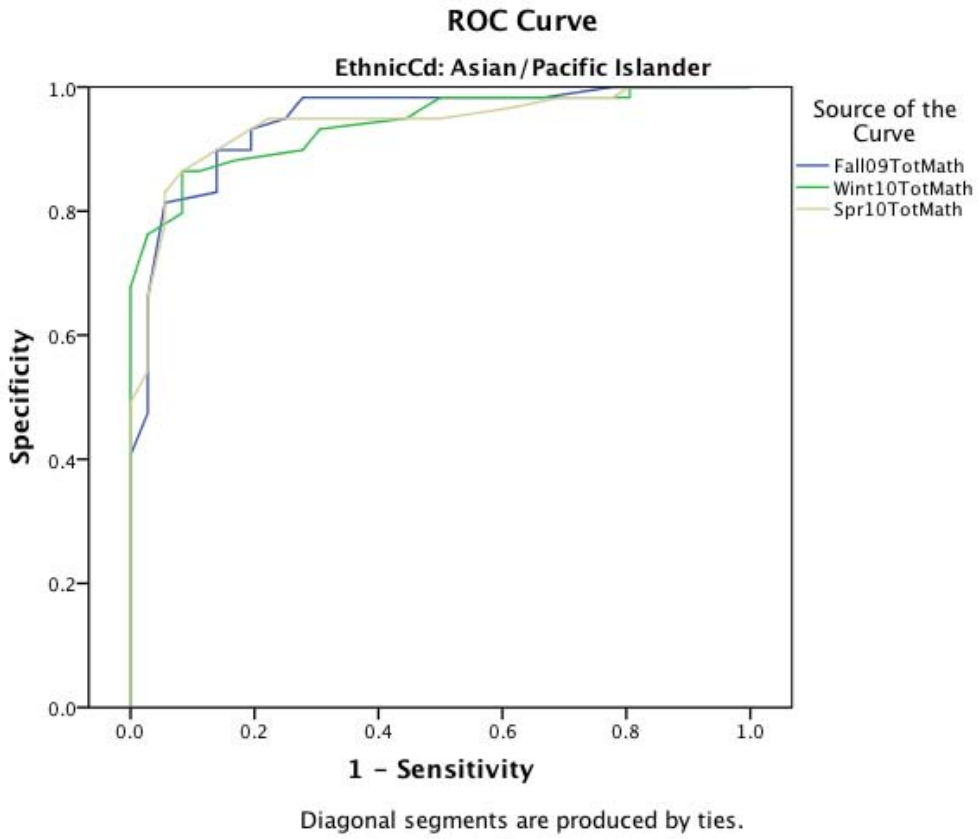
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	59
Negative	36
Missing	192

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

a. The positive actual state is 1.

b. EthnicCd = Asian/Pacific Islander



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.945	.023	.000	.900	.990
Wint10TotMath	.939	.023	.000	.895	.984
Spr10TotMath	.939	.025	.000	.891	.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	0.028	1
16	0.056	1
19	0.083	1
20.5	0.111	1
21.5	0.222	1
22.5	0.333	0.983
23.5	0.444	0.983
24.5	0.528	0.983
25.5	0.556	0.983
26.5	0.667	0.983
27.5	0.722	0.983
28.5	0.75	0.949
29.5	0.806	0.932
30.5	0.806	0.898
31.5	**0.861**	**0.898**
32.5	0.861	0.831
33.5	0.944	0.814
34.5	0.972	0.661
35.5	0.972	0.61
36.5	0.972	0.576
37.5	0.972	0.525
38.5	0.972	0.475
39.5	1	0.407
40.5	1	0.339
41.5	1	0.254
42.5	1	0.22
43.5	1	0.153
44.5	1	0.102
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	32	8	40
	Meets or exceeds	8	60	68
Total		40	68	108

a. EthnicCd = Asian/Pacific Islander

Grade 8
Winter Benchmark – Asian/Pacific Islander

Cut score	Specificity	Sensitivity
9	0	1
13.5	0.028	1
17.5	0.056	1
18.5	0.111	1
20	0.139	1
22	0.194	1
23.5	0.194	0.983
24.5	0.25	0.983
25.5	0.278	0.983
26.5	0.389	0.983
27.5	0.444	0.983
28.5	0.5	0.983
29.5	0.528	0.966
30.5	0.556	0.949
32	0.694	0.932
33.5	0.722	0.898
34.5	**0.833**	**0.881**
35.5	0.889	0.864
36.5	0.917	0.864
37.5	0.917	0.797
38.5	0.972	0.763
39.5	1	0.678
40.5	1	0.542
41.5	1	0.475
42.5	1	0.322
43.5	1	0.203
44.5	1	0.034
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	42	17	59
	Meets or exceeds	5	62	67
Total		47	79	126

a. EthnicCd = Asian/Pacific Islander

Grade 8
Spring Benchmark – Asian/Pacific Islander

Cut score	Sensitivity	Specificity
18	0	1
19.5	0.056	1
20.5	0.083	1
21.5	0.111	1
22.5	0.167	1
23.5	0.194	1
24.5	0.222	0.983
25.5	0.278	0.983
26.5	0.306	0.983
27.5	0.389	0.966
28.5	0.5	0.949
30	0.556	0.949
31.5	0.667	0.949
32.5	0.778	0.949
33.5	0.861	0.898
34.5	**0.917**	**0.864**
35.5	0.944	0.831
36.5	0.944	0.78
37.5	0.972	0.661
38.5	0.972	0.542
39.5	1	0.492
40.5	1	0.424
41.5	1	0.305
42.5	1	0.153
43.5	1	0.085
44.5	1	0.017
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	60	25	85
	Meets or exceeds	3	93	96
Total		63	118	181

a. EthnicCd = Asian/Pacific Islander

Student Subgroup: Black

Grade 3

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	22
Negative	12
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 1.

c. EthnicCd = Black

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	11	6	17
	Meets or exceeds	2	18	20
Total		13	24	37

a. EthnicCd = Black

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	43	6	49
	Meets or exceeds	3	13	16
Total		46	19	65

a. EthnicCd = Hispanic

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	18	15	33
	Meets or exceeds	1	22	23
Total		19	37	56

a. EthnicCd = Black

Grade 4

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	15
Negative	19
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 1.

c. EthnicCd = Black

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	23	5	28
	Meets or exceeds	0	10	10
Total		23	15	38

a. EthnicCd = Black

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	21	7	28
	Meets or exceeds	1	20	21
Total		22	27	49

a. EthnicCd = Black

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	34	5	39
	Meets or exceeds	3	15	18
Total		37	20	57

a. EthnicCd = Black

Grade 5

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	22
Negative	23
Missing	61

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 1.

c. EthnicCd = Black

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	22	10	32
	Meets or exceeds	3	12	15
Total		25	22	47

a. EthnicCd = Black

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	23	6	29
	Meets or exceeds	2	18	20
Total		25	24	49

a. EthnicCd = Black

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	39	9	48
	Meets or exceeds	4	23	27
Total		43	32	75

a. EthnicCd = Black

Grade 6

Case Processing Summary[c]

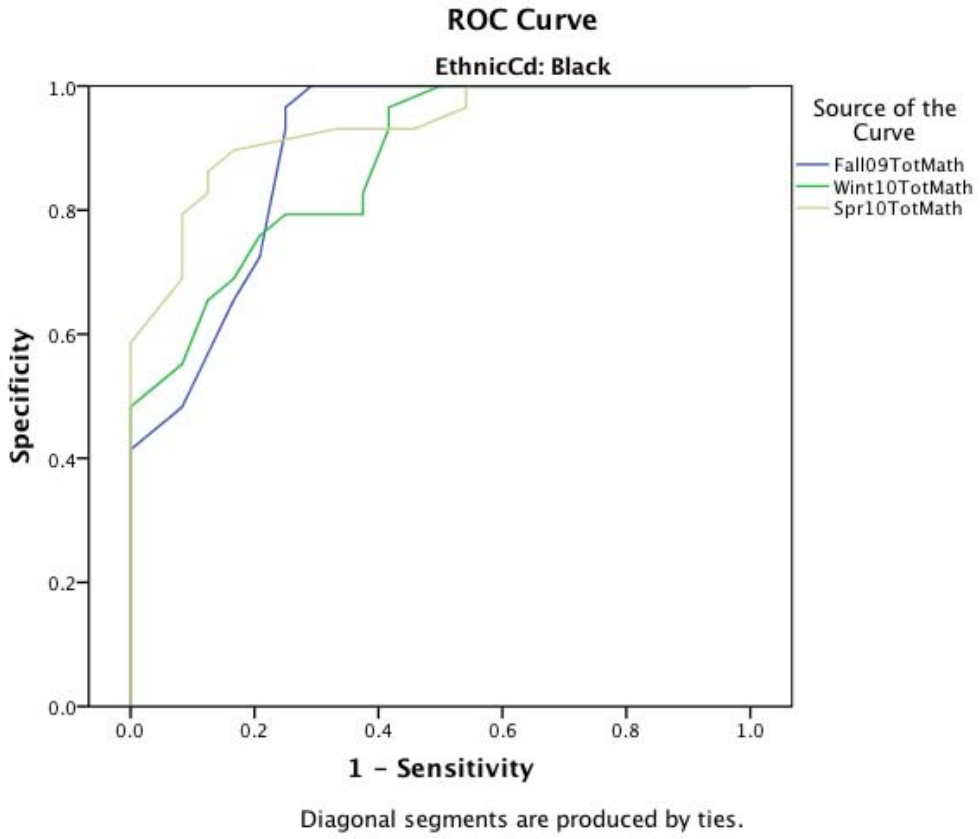
MSP_PLC[a]	Valid N (listwise)
Positive[b]	29
Negative	24
Missing	63

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 1.

c. EthnicCd = Black



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.897	.044	.000	.811	.983
Wint10TotMath	.876	.045	.000	.787	.965
Spr10TotMath	.930	.033	.000	.864	.995

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
13	0.042	1
14.5	0.083	1
15.5	0.125	1
17	0.167	1
18.5	0.292	1
20	0.333	1
21.5	0.375	1
23	0.458	1
24.5	0.5	1
25.5	0.625	1
26.5	0.667	1
27.5	0.708	1
28.5	0.75	0.966
29.5	0.75	0.931
30.5	0.792	0.724
31.5	**0.833**	**0.655**
33	0.917	0.483
34.5	1	0.414
35.5	1	0.345
36.5	1	0.276
37.5	1	0.207
38.5	1	0.138
40	1	0.103
42	1	0.069
43.5	1	0.034
45	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	22	10	32
	Meets or exceeds	4	20	24
Total		26	30	56

a. EthnicCd = Black

Grade 6
Winter Benchmark – Black

Cut score	Sensitivity	Specificity
14	0	1
15.5	0.042	1
17	0.125	1
18.5	0.167	1
21.5	0.208	1
24.5	0.25	1
25.5	0.333	1
26.5	0.458	1
27.5	0.5	1
28.5	0.583	0.966
29.5	0.583	0.931
30.5	0.625	0.828
31.5	0.625	0.793
32.5	**0.75**	**0.793**
34	0.792	0.759
35.5	0.833	0.69
36.5	0.875	0.655
37.5	0.917	0.552
38.5	1	0.483
39.5	1	0.345
40.5	1	0.207
42	1	0.103
44	1	0.069
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	23	7	30
	Meets or exceeds	5	23	28
Total		28	30	58

a. EthnicCd = Black

Grade 6
Spring Benchmark – Black

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.042	1
13.5	0.083	1
15.5	0.125	1
18.5	0.167	1
20.5	0.208	1
22	0.25	1
24	0.292	1
25.5	0.333	1
26.5	0.375	1
28	0.417	1
29.5	0.458	1
30.5	0.458	0.966
31.5	0.542	0.931
32.5	0.583	0.931
33.5	0.667	0.931
34.5	0.833	0.897
35.5	0.875	0.862
36.5	0.875	0.828
37.5	**0.917**	**0.793**
38.5	0.917	0.759
39.5	0.917	0.69
40.5	1	0.586
41.5	1	0.517
42.5	1	0.448
43.5	1	0.276
44.5	1	0.103
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	48	12	60
	Meets or exceeds	4	43	47
Total		52	55	107

a. EthnicCd = Black

Grade 7

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	20
Negative	20
Missing	102

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 1.

c. EthnicCd = Black

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	18	8	26
	Meets or exceeds	7	14	21
Total		25	22	47

a. EthnicCd = Black

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	18	5	23
	Meets or exceeds	4	21	25
Total		22	26	48

a. EthnicCd = Black

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	58	24	82
	Meets or exceeds	4	34	38
Total		62	58	120

a. EthnicCd = Black

Grade 8

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	13
Negative	11
Missing	146

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 1.

c. EthnicCd = Black

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	13	5	18
	Meets or exceeds	4	14	18
Total		17	19	36

a. EthnicCd = Black

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	19	9	28
	Meets or exceeds	2	12	14
Total		21	21	42

a. EthnicCd = Black

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	43	16	59
	Meets or exceeds	3	20	23
Total		46	36	82

a. EthnicCd = Black

Student Subgroup: Hispanic

Grade 3

Case Processing Summary[c]

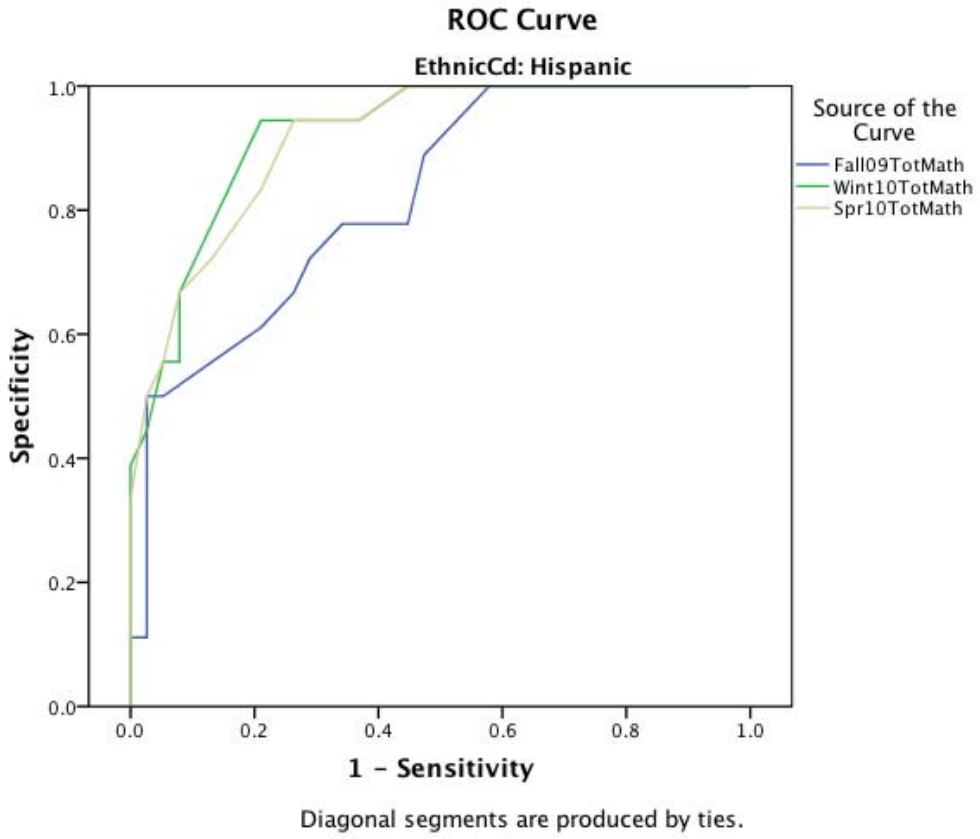
MSP_PLC[a]	Valid N (listwise)
Positive[b]	18
Negative	38
Missing	144

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 1.

c. EthnicCd = Hispanic



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.819	.058	.000	.706	.933
Wint10TotMath	.923	.035	.000	.855	.991
Spr10TotMath	.914	.037	.000	.843	.986

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
13	0	1
15.5	0.026	1
18	0.053	1
19.5	0.079	1
20.5	0.158	1
21.5	0.211	1
22.5	0.289	1
23.5	0.421	1
24.5	0.526	0.889
25.5	0.553	0.778
26.5	0.579	0.778
27.5	0.658	0.778
28.5	0.711	0.722
29.5	0.737	0.667
30.5	**0.789**	**0.611**
31.5	0.868	0.556
32.5	0.947	0.5
33.5	0.974	0.5
34.5	0.974	0.389
35.5	0.974	0.333
36.5	0.974	0.111
37.5	1	0.111
39.5	1	0.056
42	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	54	9	63
	Meets or exceeds	8	12	20
Total		62	21	83

a. EthnicCd = Hispanic

Grade 3
Winter Benchmark – Hispanic

Cut score	Sensitivity	Specificity
18	0	1
19.5	0.026	1
21.5	0.079	1
23.5	0.132	1
24.5	0.184	1
25.5	0.316	1
26.5	0.395	1
27.5	0.5	1
28.5	0.553	1
29.5	0.632	0.944
30.5	0.711	0.944
31.5	0.789	0.944
32.5	0.816	0.889
33.5	0.842	0.833
34.5	0.921	0.667
35.5	**0.921**	**0.556**
36.5	0.947	0.556
37.5	0.974	0.444
39	1	0.389
40.5	1	0.278
41.5	1	0.167
43	1	0.056
45	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	43	6	49
	Meets or exceeds	3	13	16
Total		46	19	65

a. EthnicCd = Hispanic

Grade 3
Spring Benchmark – Hispanic

Cut score	Sensitivity	Specificity
19	0	1
21	0.026	1
22.5	0.079	1
23.5	0.105	1
24.5	0.158	1
25.5	0.184	1
26.5	0.289	1
27.5	0.316	1
28.5	0.342	1
29.5	0.5	1
30.5	0.553	1
31.5	0.632	0.944
32.5	0.658	0.944
33.5	0.737	0.944
34.5	0.763	0.889
35.5	0.789	0.833
36.5	0.868	0.722
38	**0.921**	**0.667**
39.5	0.947	0.556
40.5	0.974	0.5
41.5	1	0.333
42.5	1	0.111
44	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	75	16	91
	Meets or exceeds	3	17	20
Total		78	33	111

a. EthnicCd = Hispanic

Grade 4

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	17
Negative	29
Missing	137

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 1.

c. EthnicCd = Hispanic

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	44	14	58
	Meets or exceeds	1	7	8
Total		45	21	66

a. EthnicCd = Hispanic

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	51	9	60
	Meets or exceeds	3	17	20
Total		54	26	80

a. EthnicCd = Hispanic

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	45	11	56
	Meets or exceeds	1	19	20
Total		46	30	76

a. EthnicCd = Hispanic

Grade 5

Case Processing Summary[c]

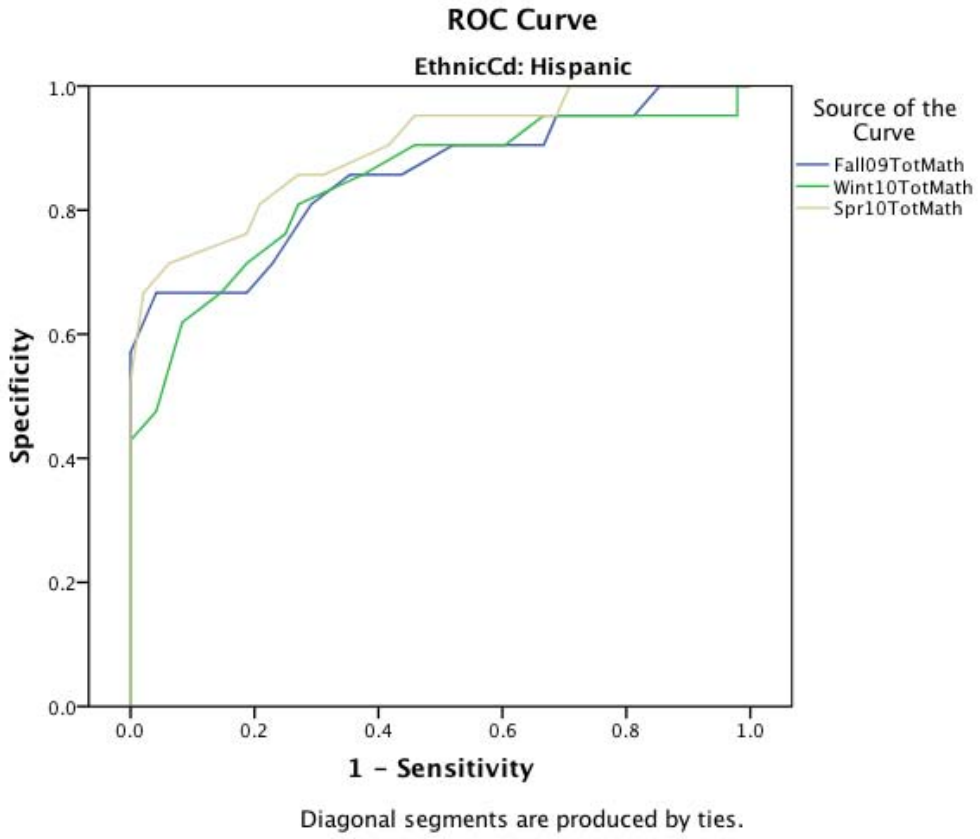
MSP_PLC[a]	Valid N (listwise)
Positive[b]	21
Negative	48
Missing	110

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 1.

c. EthnicCd = Hispanic



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.853	.056	.000	.744	.963
Wint10TotMath	.842	.058	.000	.728	.956
Spr10TotMath	.898	.044	.000	.813	.984

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
15	0	1
16.5	0.104	1
17.5	0.146	1
18.5	0.187	0.952
19.5	0.229	0.952
20.5	0.312	0.952
21.5	0.333	0.905
22.5	0.417	0.905
23.5	0.479	0.905
24.5	0.562	0.857
25.5	0.625	0.857
26.5	0.646	0.857
27.5	0.708	0.81
28.5	0.771	0.714
29.5	0.812	0.667
30.5	0.875	0.667
31.5	0.896	0.667
32.5	**0.958**	**0.667**
33.5	1	0.571
34.5	1	0.381
35.5	1	0.286
36.5	1	0.19
38	1	0.143
40	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	51	8	59
	Meets or exceeds	3	14	17
Total		54	22	76

a. EthnicCd = Hispanic

Grade 5
Winter Benchmark – Hispanic

Cut score	Sensitivity	Specificity
13	0	1
15.5	0.021	1
17.5	0.021	0.952
18.5	0.062	0.952
20	0.083	0.952
21.5	0.167	0.952
22.5	0.25	0.952
23.5	0.333	0.952
24.5	0.396	0.905
25.5	0.458	0.905
26.5	0.5	0.905
27.5	0.542	0.905
28.5	0.625	0.857
29.5	0.729	0.81
31	0.75	0.762
32.5	0.812	0.714
33.5	0.854	0.667
34.5	0.917	0.619
35.5	0.958	0.476
36.5	**1**	**0.429**
37.5	1	0.333
38.5	1	0.238
39.5	1	0.19
41	1	0.095
43	1	0.048
45	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	53	12	65
	Meets or exceeds	1	12	13
Total		54	24	78

a. EthnicCd = Hispanic

Grade 5
Spring Benchmark – Hispanic

Cut score	Sensitivity	Specificity
17	0	1
19	0.021	1
21	0.083	1
22.5	0.146	1
23.5	0.208	1
24.5	0.271	1
25.5	0.292	1
26.5	0.312	0.952
28.5	0.375	0.952
30.5	0.396	0.952
31.5	0.458	0.952
32.5	0.479	0.952
33.5	0.5	0.952
34.5	0.542	0.952
35.5	0.583	0.905
36.5	0.687	0.857
37.5	0.729	0.857
38.5	0.792	0.81
39.5	0.812	0.762
40.5	0.937	0.714
41.5	**0.979**	**0.667**
42.5	1	0.524
43.5	1	0.286
45	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	64	10	74
	Meets or exceeds	3	17	20
Total		67	27	94

a. EthnicCd = Hispanic

Grade 6

Case Processing Summary[c]

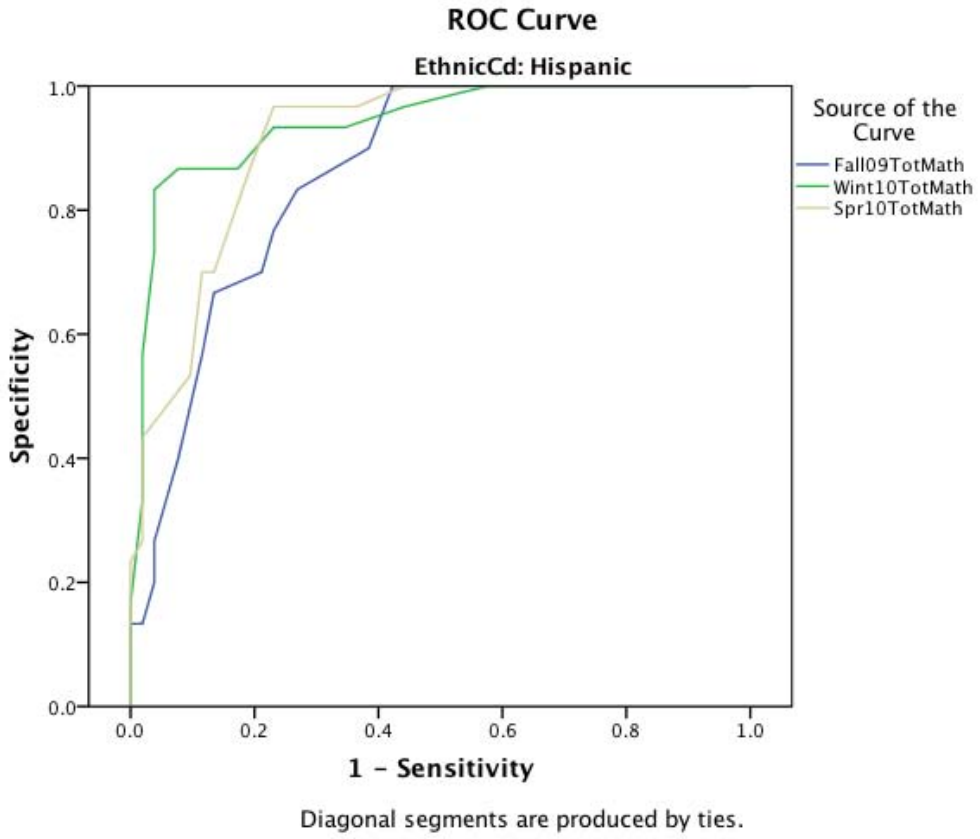
MSP_PLC[a]	Valid N (listwise)
Positive[b]	30
Negative	52
Missing	103

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 1.

c. EthnicCd = Hispanic



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.860	.039	.000	.783	.937
Wint10TotMath	.940	.027	.000	.887	.993
Spr10TotMath	.911	.030	.000	.852	.971

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
14	0	1
15.5	0.019	1
16.5	0.038	1
17.5	0.077	1
18.5	0.096	1
19.5	0.154	1
21	0.192	1
22.5	0.288	1
23.5	0.442	1
24.5	0.5	1
25.5	0.577	1
26.5	0.615	0.9
27.5	0.731	0.833
28.5	0.769	0.767
29.5	0.788	0.7
30.5	0.865	0.667
31.5	**0.885**	**0.567**
32.5	0.923	0.4
33.5	0.942	0.333
34.5	0.962	0.267
36	0.962	0.2
37.5	0.981	0.133
38.5	1	0.133
41	1	0.067
44	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	51	14	65
	Meets or exceeds	6	20	26
Total		57	34	91

a. EthnicCd = Hispanic

Grade 6
Winter Benchmark – Hispanic

Cut score	Sensitivity	Specificity
15	0	1
16.5	0.019	1
18.5	0.058	1
20.5	0.135	1
21.5	0.173	1
22.5	0.192	1
23.5	0.25	1
24.5	0.308	1
25.5	0.423	1
26.5	0.558	0.967
27.5	0.654	0.933
28.5	0.769	0.933
29.5	0.827	0.867
30.5	0.865	0.867
31.5	0.885	0.867
32.5	**0.923**	**0.867**
33.5	0.962	0.833
34.5	0.962	0.733
35.5	0.981	0.567
36.5	0.981	0.333
37.5	1	0.167
38.5	1	0.133
39.5	1	0.1
40.5	1	0.067
42	1	0.033
44	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	54	9	63
	Meets or exceeds	2	24	26
Total		56	33	89

a. EthnicCd = Hispanic

Grade 6
Spring Benchmark – Hispanic

Cut score	Sensitivity	Specificity
11	0	1
13	0.019	1
16	0.038	1
19.5	0.058	1
22	0.077	1
24	0.135	1
25.5	0.192	1
26.5	0.212	1
27.5	0.25	1
28.5	0.308	1
29.5	0.346	1
30.5	0.365	1
31.5	0.462	1
32.5	0.558	1
33.5	0.635	0.967
34.5	0.731	0.967
35.5	0.769	0.967
36.5	0.808	0.867
37.5	**0.865**	**0.7**
38.5	0.885	0.7
39.5	0.904	0.533
40.5	0.981	0.433
41.5	0.981	0.267
42.5	1	0.233
43.5	1	0.133
44.5	1	0.033
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	89	19	108
	Meets or exceeds	11	49	60
Total		100	68	168

a. EthnicCd = Hispanic

Grade 7

Case Processing Summary[c]

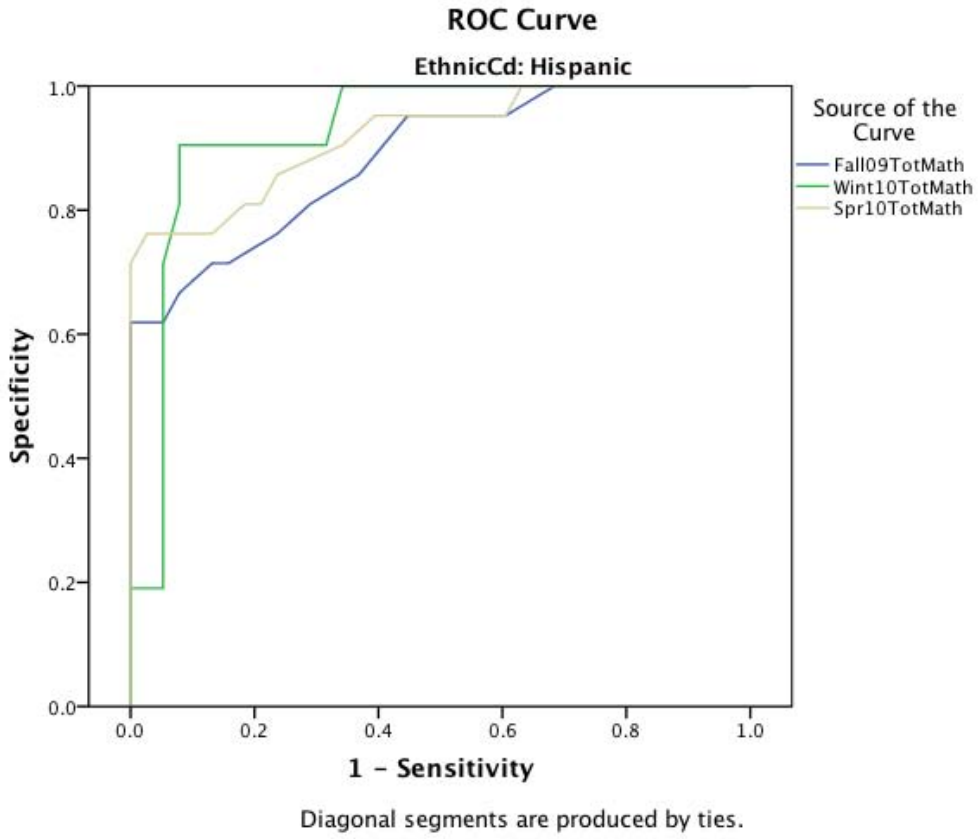
MSP_PLC[a]	Valid N (listwise)
Positive[b]	21
Negative	38
Missing	121

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 1.

c. EthnicCd = Hispanic



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.885	.046	.000	.795	.974
Wint10TotMath	.927	.035	.000	.858	.997
Spr10TotMath	.920	.039	.000	.845	.996

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	Sensitivity	Specificity
9	0	1
10.5	0.026	1
12.5	0.053	1
14.5	0.105	1
15.5	0.132	1
16.5	0.211	1
18	0.316	1
19.5	0.395	0.952
20.5	0.447	0.952
21.5	0.474	0.952
22.5	0.553	0.952
24	0.632	0.857
25.5	0.711	0.81
26.5	0.763	0.762
27.5	0.842	0.714
28.5	**0.868**	**0.714**
29.5	0.921	0.667
30.5	0.947	0.619
31.5	1	0.619
32.5	1	0.476
33.5	1	0.333
34.5	1	0.286
35.5	1	0.238
37	1	0.143
39	1	0.048
41	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	40	9	49
	Meets or exceeds	3	18	21
Total		43	27	70

a. EthnicCd = Hispanic

Grade 7
Winter Benchmark – Hispanic

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.026	1
14	0.053	1
16.5	0.079	1
17.5	0.184	1
18.5	0.316	1
20	0.395	1
21.5	0.421	1
22.5	0.474	1
23.5	0.658	1
24.5	0.684	0.905
25.5	0.763	0.905
26.5	0.868	0.905
27.5	0.921	0.905
28.5	**0.921**	**0.81**
29.5	0.947	0.714
30.5	0.947	0.667
31.5	0.947	0.524
32.5	0.947	0.476
33.5	0.947	0.286
34.5	0.947	0.19
36	0.974	0.19
37.5	1	0.19
38.5	1	0.095
40	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	46	11	57
	Meets or exceeds	3	20	23
Total		49	31	80

a. EthnicCd = Hispanic

Grade 7
Spring Benchmark – Hispanic

Cut score	Sensitivity	Specificity
13	0	1
15.5	0.026	1
17.5	0.053	1
18.5	0.132	1
19.5	0.158	1
20.5	0.263	1
21.5	0.316	1
22.5	0.342	1
23.5	0.368	1
24.5	0.395	0.952
25.5	0.421	0.952
26.5	0.553	0.952
27.5	0.605	0.952
28.5	0.658	0.905
29.5	0.763	0.857
30.5	0.789	0.81
32	0.816	0.81
33.5	**0.868**	**0.762**
34.5	0.974	0.762
35.5	1	0.714
37	1	0.619
38.5	1	0.476
39.5	1	0.381
40.5	1	0.333
41.5	1	0.19
42.5	1	0.048
44	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	86	18	104
	Meets or exceeds	11	39	50
Total		97	57	154

a. EthnicCd = Hispanic

Grade 8

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	15
Negative	9
Missing	238

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 1.

c. EthnicCd = Hispanic

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	12	8	20
	Meets or exceeds	2	11	13
Total		14	19	33

a. EthnicCd = Hispanic

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	37	10	47
	Meets or exceeds	2	11	13
Total		39	21	60

a. EthnicCd = Hispanic

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	72	29	101
	Meets or exceeds	11	28	39
Total		83	57	140

a. EthnicCd = Hispanic

Student Subgroup: White

Grade 3

Case Processing Summary[c]

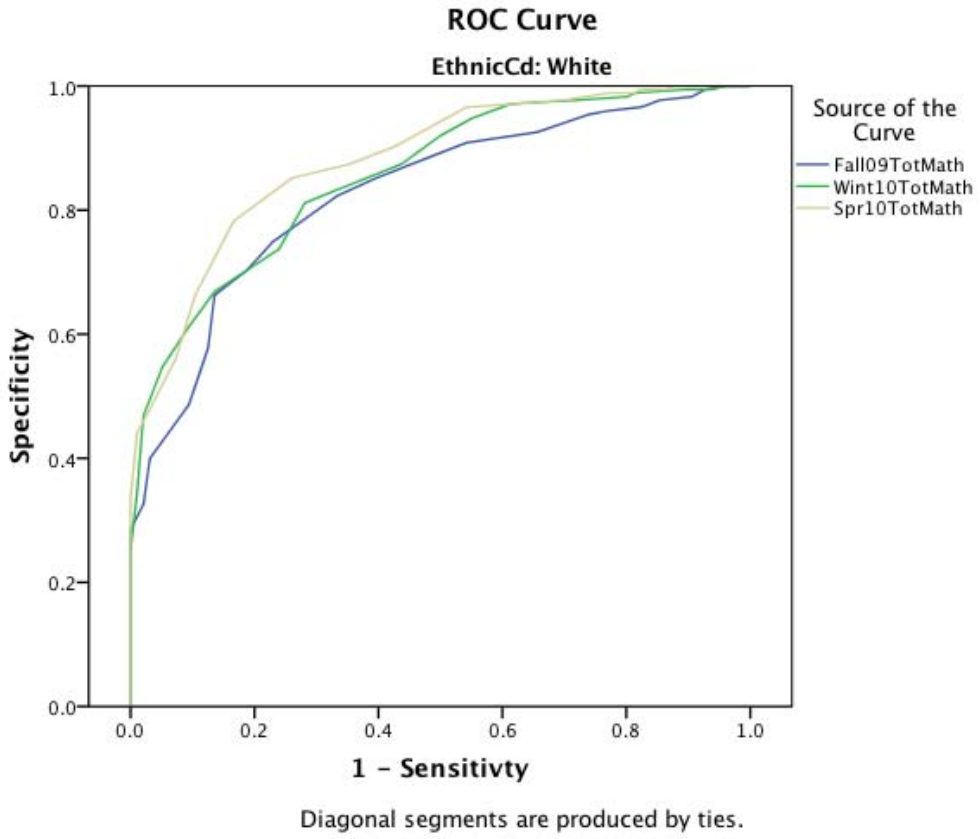
MSP_PLC[a]	Valid N (listwise)
Positive[b]	175
Negative	96
Missing	847

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 1.

c. EthnicCd = White



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.827	.025	.000	.779	.876
Wint10TotMath	.856	.022	.000	.812	.900
Spr10TotMath	.881	.020	.000	.841	.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 3
Fall Benchmark – White

Cut score	Sensitivity	Specificity
13	1	0
16	1	0.01
18.5	1	0.042
19.5	0.994	0.073
20.5	0.989	0.083
21.5	0.983	0.094
22.5	0.977	0.146
23.5	0.966	0.177
24.5	0.96	0.229
25.5	0.954	0.26
26.5	0.926	0.344
27.5	0.909	0.458
28.5	0.851	0.604
29.5	0.823	0.667
30.5	**0.749**	**0.771**
31.5	0.703	0.812
32.5	0.663	0.865
33.5	0.577	0.875
34.5	0.486	0.906
35.5	0.4	0.969
36.5	0.326	0.979
37.5	0.286	1
38.5	0.206	1
39.5	0.149	1
40.5	0.109	1
41.5	0.057	1
42.5	0.034	1
43.5	0.023	1
44.5	0.006	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	86	48	134
	Meets or exceeds	26	156	182
Total		112	204	316

a. EthnicCd = White

Grade 3
Winter Benchmark – White

Cut score	Sensitivity	Specificity
17	1	0
18.5	1	0.01
20.5	1	0.042
22.5	0.994	0.062
23.5	0.994	0.073
24.5	0.994	0.083
25.5	0.994	0.104
26.5	0.989	0.187
27.5	0.983	0.198
28.5	0.977	0.281
29.5	0.971	0.385
30.5	0.949	0.448
31.5	0.92	0.5
32.5	0.874	0.562
33.5	0.829	0.677
34.5	**0.811**	**0.719**
35.5	0.737	0.76
36.5	0.669	0.865
37.5	0.611	0.906
38.5	0.549	0.948
39.5	0.469	0.979
40.5	0.343	0.99
41.5	0.251	1
42.5	0.137	1
43.5	0.091	1
44.5	0.023	1
46	0	1

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	101	58	159
	Meets or exceeds	31	235	266
Total		132	293	425

a. EthnicCd = White

Grade 3
Spring Benchmark – White

Cut score	Sensitivity	Specificity
16	1	0
17.5	1	0.01
19	1	0.021
20.5	1	0.031
22	1	0.042
24	1	0.062
25.5	1	0.073
26.5	1	0.094
27.5	1	0.125
28.5	0.994	0.135
29.5	0.994	0.177
30.5	0.989	0.187
31.5	0.989	0.229
32.5	0.977	0.302
33.5	0.966	0.458
34.5	0.949	0.49
35.5	0.903	0.573
36.5	0.874	0.646
37.5	0.851	0.74
38.5	**0.783**	**0.833**
39.5	0.663	0.896
40.5	0.56	0.927
41.5	0.44	0.99
42.5	0.337	1
43.5	0.206	1
44.5	0.046	1
46	0	1

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	149	118	267
	Meets or exceeds	22	224	246
Total		171	342	513

a. EthnicCd = White

Grade 4

Case Processing Summary[c]

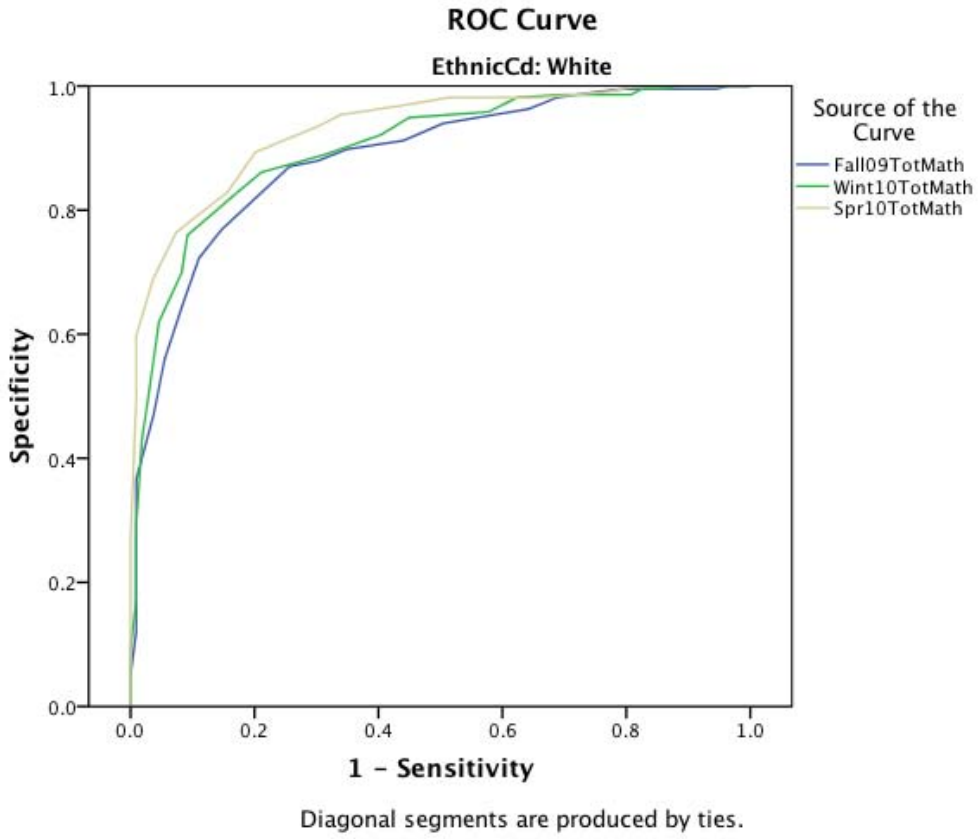
MSP_PLC[a]	Valid N (listwise)
Positive[b]	216
Negative	109
Missing	820

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 1.

c. EthnicCd = White



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.884	.019	.000	.846	.921
Wint10TotMath	.901	.018	.000	.866	.935
Spr10TotMath	.930	.014	.000	.904	.957

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
15	1	0
16.5	1	0.009
17.5	1	0.028
18.5	1	0.037
19.5	0.995	0.055
20.5	0.995	0.083
21.5	0.995	0.101
22.5	0.995	0.138
23.5	0.995	0.202
24.5	0.991	0.248
25.5	0.981	0.312
26.5	0.963	0.358
27.5	0.954	0.413
28.5	0.94	0.495
29.5	0.912	0.56
30.5	0.898	0.651
31.5	0.88	0.697
32.5	**0.87**	**0.743**
33.5	0.819	0.798
34.5	0.769	0.853
35.5	0.722	0.89
36.5	0.644	0.917
37.5	0.56	0.945
38.5	0.468	0.963
39.5	0.366	0.991
40.5	0.255	0.991
41.5	0.185	0.991
42.5	0.12	0.991
43.5	0.051	1
44.5	0.009	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	100	44	144
	Meets or exceeds	26	207	233
Total		126	251	377

a. EthnicCd = White

Grade 4
Winter Benchmark – White

Cut score	Sensitivity	Specificity
16	1	0
17.5	1	0.009
18.5	1	0.028
19.5	1	0.046
21	1	0.064
22.5	1	0.073
23.5	1	0.11
24.5	0.995	0.147
25.5	0.995	0.174
26.5	0.986	0.193
27.5	0.986	0.239
28.5	0.986	0.303
29.5	0.981	0.376
30.5	0.958	0.422
31.5	0.949	0.55
32.5	0.921	0.596
33.5	0.889	0.688
34.5	0.861	0.789
35.5	**0.815**	**0.844**
36.5	0.759	0.908
37.5	0.699	0.917
38.5	0.62	0.954
39.5	0.491	0.972
40.5	0.431	0.982
41.5	0.292	0.991
42.5	0.171	0.991
43.5	0.093	1
44.5	0.032	1
46	0	1

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	144	65	209
	Meets or exceeds	29	261	290
Total		173	326	499

a. EthnicCd = White

Grade 4
Spring Benchmark – White

Cut score	Sensitivity	Specificity
9	1	0
13.5	1	0.009
18	1	0.018
20	1	0.028
21.5	1	0.046
22.5	1	0.055
24	1	0.073
25.5	1	0.092
26.5	1	0.119
27.5	1	0.147
28.5	1	0.183
29.5	0.991	0.229
30.5	0.986	0.284
31.5	0.981	0.339
32.5	0.981	0.404
33.5	0.981	0.486
34.5	0.968	0.569
35.5	0.954	0.661
36.5	0.935	0.697
37.5	0.894	0.798
38.5	**0.829**	**0.844**
39.5	0.764	0.927
40.5	0.69	0.963
41.5	0.597	0.991
42.5	0.495	0.991
43.5	0.269	1
44.5	0.111	1
46	0	1

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	161	85	246
	Meets or exceeds	28	272	300
Total		189	357	546

a. EthnicCd = White

Grade 5

Case Processing Summary[c]

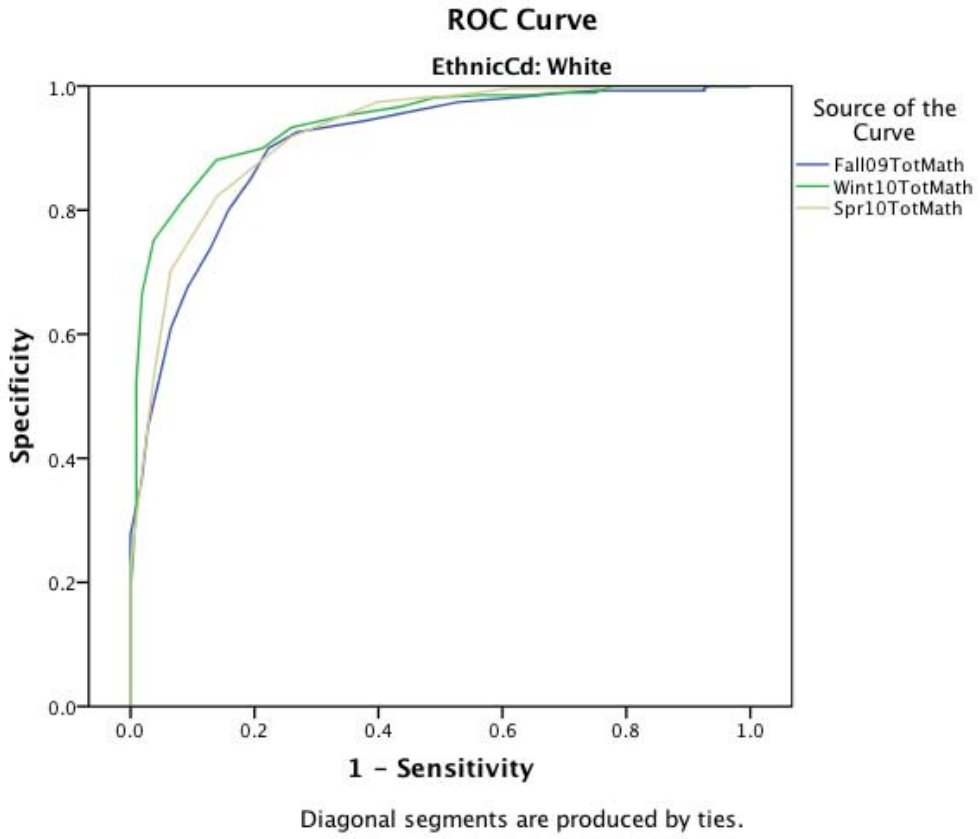
MSP_PLC[a]	Valid N (listwise)
Positive[b]	269
Negative	108
Missing	774

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 1.

c. EthnicCd = White



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.905	.017	.000	.872	.938
Wint10TotMath	.940	.012	.000	.915	.964
Spr10TotMath	.922	.015	.000	.892	.952

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
13	1	0
14.5	1	0.009
15.5	1	0.028
16.5	1	0.037
17.5	1	0.046
18.5	1	0.065
19.5	0.996	0.074
20.5	0.993	0.074
21.5	0.993	0.102
22.5	0.993	0.139
23.5	0.993	0.204
24.5	0.993	0.25
25.5	0.989	0.306
26.5	0.981	0.38
27.5	0.974	0.472
28.5	0.959	0.546
29.5	0.944	0.62
30.5	0.926	0.731
31.5	0.9	0.778
32.5	**0.851**	**0.806**
33.5	0.799	0.843
34.5	0.74	0.87
35.5	0.677	0.907
36.5	0.61	0.935
37.5	0.528	0.954
38.5	0.45	0.972
39.5	0.368	0.981
40.5	0.279	1
41.5	0.234	1
42.5	0.141	1
43.5	0.074	1
44.5	0.041	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	89	40	129
	Meets or exceeds	22	245	267
Total		111	285	396

a. EthnicCd = White

Grade 5
Winter Benchmark – White

Cut score	Sensitivity	Specificity
16	1	0
18	1	0.009
20	1	0.028
21.5	1	0.046
22.5	1	0.065
23.5	1	0.12
24.5	1	0.157
25.5	1	0.185
26.5	1	0.222
27.5	0.989	0.25
28.5	0.989	0.306
29.5	0.985	0.361
30.5	0.985	0.435
31.5	0.981	0.509
32.5	0.967	0.565
33.5	0.952	0.657
34.5	0.933	0.741
35.5	0.9	0.787
36.5	**0.881**	**0.861**
37.5	0.814	0.917
38.5	0.751	0.963
39.5	0.665	0.981
40.5	0.524	0.991
41.5	0.409	0.991
42.5	0.323	0.991
43.5	0.186	1
44.5	0.078	1
46	0	1

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	136	48	184
	Meets or exceeds	26	290	316
Total		162	338	500

a. EthnicCd = White

Grade 5
Spring Benchmark – White

Cut score	Sensitivity	Specificity
18	1	0
20.5	1	0.009
23.5	1	0.056
26	1	0.083
27.5	1	0.111
28.5	1	0.12
29.5	1	0.167
30.5	1	0.176
31.5	1	0.194
32.5	1	0.222
33.5	0.996	0.278
34.5	0.996	0.352
35.5	0.996	0.389
36.5	0.985	0.472
37.5	0.981	0.528
38.5	0.974	0.602
39.5	0.944	0.676
40.5	0.918	0.741
41.5	**0.822**	**0.861**
42.5	0.703	0.935
43.5	0.528	0.963
44.5	0.227	1
46	0	1

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	178	108	286
	Meets or exceeds	29	318	347
Total		207	426	633

a. EthnicCd = White

Grade 6

Case Processing Summary[c]

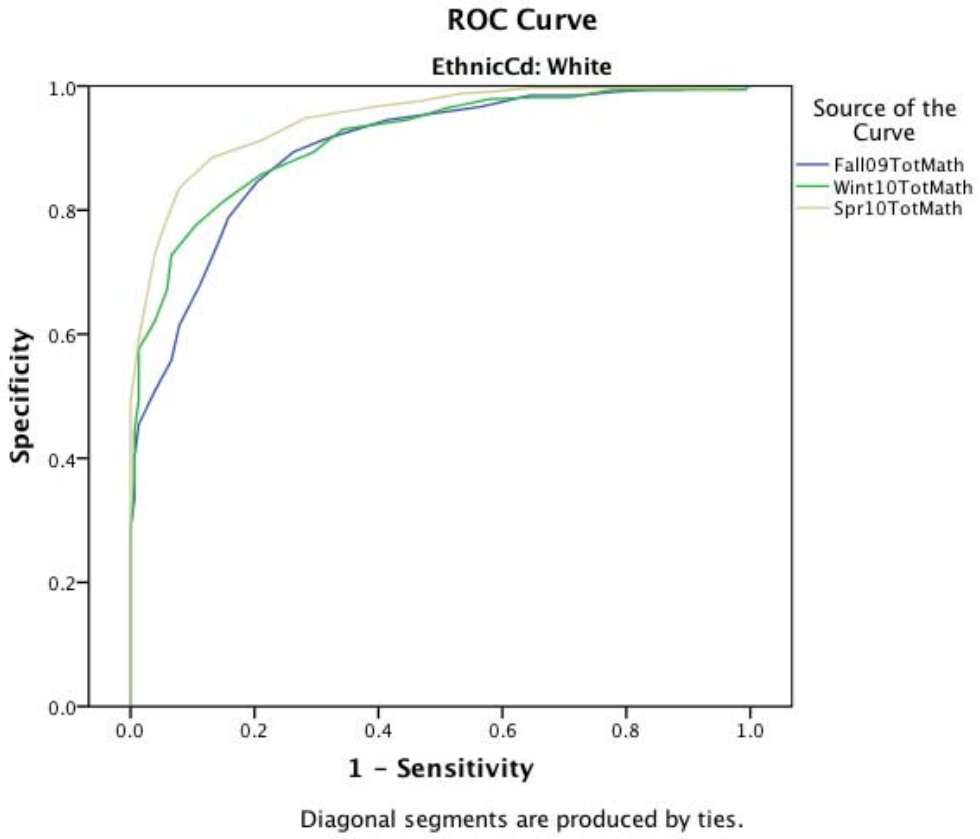
MSP_PLC[a]	Valid N (listwise)
Positive[b]	330
Negative	152
Missing	653

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 1.

c. EthnicCd = White



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.897	.015	.000	.868	.926
Wint10TotMath	.913	.013	.000	.888	.938
Spr10TotMath	.946	.010	.000	.927	.965

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
13	1	0
14.5	1	0.007
15.5	1	0.013
16.5	1	0.026
17.5	1	0.046
18.5	0.997	0.079
19.5	0.994	0.112
20.5	0.994	0.158
21.5	0.991	0.217
22.5	0.985	0.276
23.5	0.985	0.355
24.5	0.967	0.434
25.5	0.955	0.52
26.5	0.945	0.586
27.5	0.915	0.684
28.5	0.894	0.737
29.5	0.845	0.796
30.5	**0.788**	**0.842**
31.5	0.739	0.862
32.5	0.679	0.888
33.5	0.615	0.921
34.5	0.558	0.934
35.5	0.509	0.961
36.5	0.455	0.987
37.5	0.403	0.993
38.5	0.336	0.993
39.5	0.288	1
40.5	0.236	1
41.5	0.185	1
42.5	0.124	1
43.5	0.088	1
44.5	0.048	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	151	95	246
	Meets or exceeds	23	267	290
Total		174	362	536

a. EthnicCd = White

Grade 6
Winter Benchmark – White

Cut score	Sensitivity	Specificity
12	1	0
14	1	0.007
15.5	0.997	0.007
16.5	0.994	0.007
17.5	0.994	0.013
18.5	0.994	0.039
19.5	0.994	0.053
20.5	0.994	0.086
21.5	0.994	0.125
22.5	0.994	0.178
23.5	0.994	0.224
24.5	0.982	0.289
25.5	0.982	0.349
26.5	0.979	0.421
27.5	0.964	0.493
28.5	0.945	0.553
29.5	0.93	0.658
30.5	0.894	0.704
31.5	0.858	0.789
32.5	**0.815**	**0.849**
33.5	0.776	0.895
34.5	0.727	0.934
35.5	0.673	0.941
36.5	0.621	0.961
37.5	0.576	0.987
38.5	0.494	0.987
39.5	0.445	0.993
40.5	0.361	0.993
41.5	0.282	1
42.5	0.2	1
43.5	0.118	1
44.5	0.048	1
46	0	1

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	160	97	257
	Meets or exceeds	12	265	277
Total		172	362	534

a. EthnicCd = White

Grade 6
Spring Benchmark – White

Cut score	Sensitivity	Specificity
15	1	0
16.5	1	0.007
17.5	1	0.013
18.5	1	0.02
20	1	0.026
21.5	0.997	0.039
22.5	0.997	0.066
23.5	0.997	0.099
24.5	0.997	0.132
25.5	0.997	0.158
26.5	0.997	0.178
27.5	0.997	0.217
28.5	0.997	0.257
29.5	0.997	0.355
30.5	0.991	0.414
31.5	0.988	0.467
32.5	0.976	0.533
33.5	0.967	0.605
34.5	0.948	0.717
35.5	0.912	0.789
36.5	0.885	0.868
37.5	0.836	0.921
38.5	0.77	0.947
39.5	0.73	0.961
40.5	0.661	0.974
41.5	0.591	0.987
42.5	0.491	1
43.5	0.318	1
44.5	0.133	1
46	0	1

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	315	132	447
	Meets or exceeds	41	536	577
Total		356	668	1024

a. EthnicCd = White

Grade 7

Case Processing Summary[c]

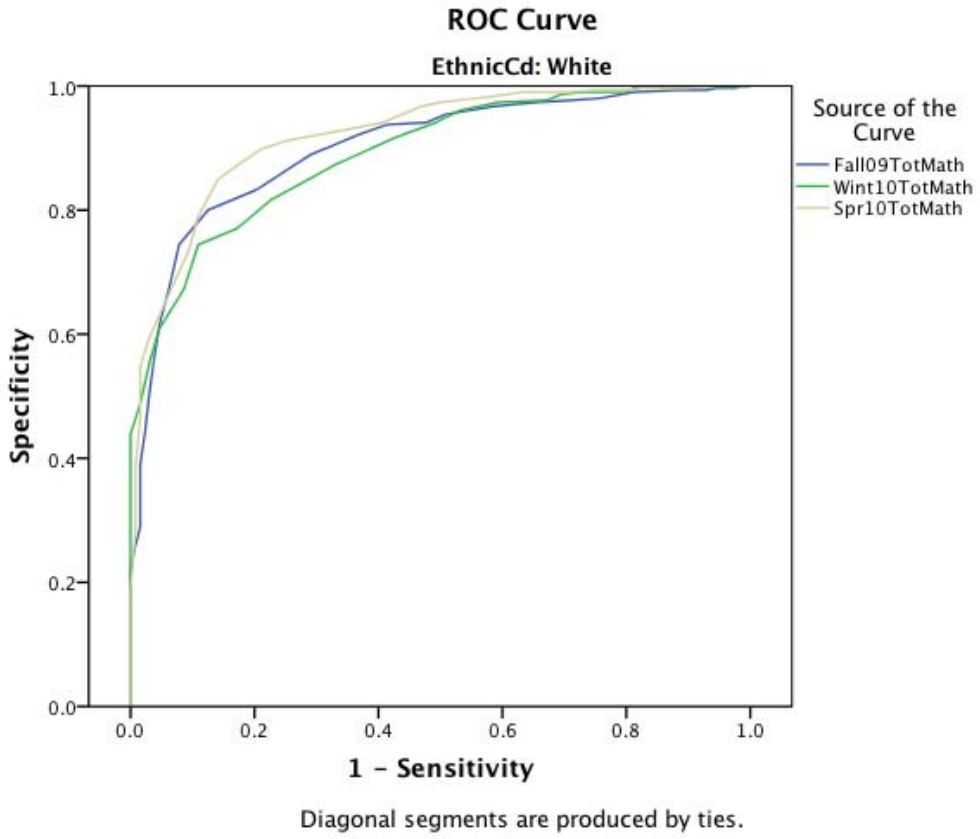
MSP_PLC[a]	Valid N (listwise)
Positive[b]	305
Negative	128
Missing	677

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 1.

c. EthnicCd = White



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.900	.015	.000	.870	.931
Wint10TotMath	.892	.015	.000	.862	.922
Spr10TotMath	.920	.014	.000	.894	.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 7
Fall Benchmark – White

Cut score	Sensitivity	Specificity
10	1	0
11.5	1	0.016
12.5	0.997	0.023
13.5	0.997	0.047
14.5	0.997	0.055
15.5	0.993	0.07
16.5	0.993	0.102
17.5	0.993	0.117
18.5	0.99	0.187
19.5	0.98	0.242
20.5	0.977	0.289
21.5	0.974	0.344
22.5	0.967	0.414
23.5	0.954	0.492
24.5	0.941	0.523
25.5	0.938	0.586
26.5	0.921	0.633
27.5	0.889	0.711
28.5	**0.833**	**0.797**
29.5	0.8	0.875
30.5	0.744	0.922
31.5	0.675	0.937
32.5	0.616	0.953
33.5	0.567	0.961
34.5	0.511	0.969
35.5	0.443	0.977
36.5	0.39	0.984
37.5	0.338	0.984
38.5	0.289	0.984
39.5	0.259	0.992
40.5	0.22	1
41.5	0.17	1
42.5	0.121	1
43.5	0.079	1
44.5	0.03	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	133	68	201
	Meets or exceeds	18	268	286
Total		151	336	487

a. EthnicCd = White

Grade 7
Winter Benchmark – White

Cut score	Sensitivity	Specificity
10	1	0
11.5	1	0.008
12.5	1	0.023
13.5	1	0.039
14.5	1	0.055
15.5	1	0.094
16.5	1	0.125
17.5	1	0.18
18.5	0.997	0.187
19.5	0.99	0.203
20.5	0.99	0.273
21.5	0.987	0.305
22.5	0.977	0.328
23.5	0.974	0.406
24.5	0.961	0.469
25.5	0.941	0.508
26.5	0.918	0.57
27.5	0.872	0.672
28.5	**0.816**	**0.773**
29.5	0.77	0.828
30.5	0.744	0.891
31.5	0.672	0.914
32.5	0.61	0.953
33.5	0.557	0.969
34.5	0.489	0.984
35.5	0.439	1
36.5	0.397	1
37.5	0.361	1
38.5	0.318	1
39.5	0.282	1
40.5	0.243	1
41.5	0.203	1
42.5	0.161	1
43.5	0.092	1
44.5	0.046	1
46	0	1

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	119	77	196
	Meets or exceeds	24	270	294
Total		143	347	490

a. EthnicCd = White

Grade 7
Spring Benchmark – White

Cut score	Sensitivity	Specificity
11	1	0
12.5	1	0.008
13.5	1	0.031
14.5	1	0.047
15.5	1	0.062
16.5	1	0.086
17.5	0.997	0.102
18.5	0.997	0.125
19.5	0.997	0.172
20.5	0.993	0.203
21.5	0.993	0.219
22.5	0.993	0.25
23.5	0.99	0.289
24.5	0.99	0.367
25.5	0.984	0.414
26.5	0.974	0.5
27.5	0.967	0.531
28.5	0.941	0.594
29.5	0.925	0.68
30.5	0.911	0.75
31.5	0.898	0.789
32.5	0.872	0.828
33.5	**0.849**	**0.859**
34.5	0.79	0.891
35.5	0.734	0.906
36.5	0.666	0.937
37.5	0.597	0.969
38.5	0.548	0.984
39.5	0.466	0.984
40.5	0.384	0.992
41.5	0.279	0.992
42.5	0.187	1
43.5	0.125	1
44.5	0.043	1
46	0	1

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	320	124	444
	Meets or exceeds	36	496	532
Total		356	620	976

a. EthnicCd = White

Grade 8

Case Processing Summary[c]

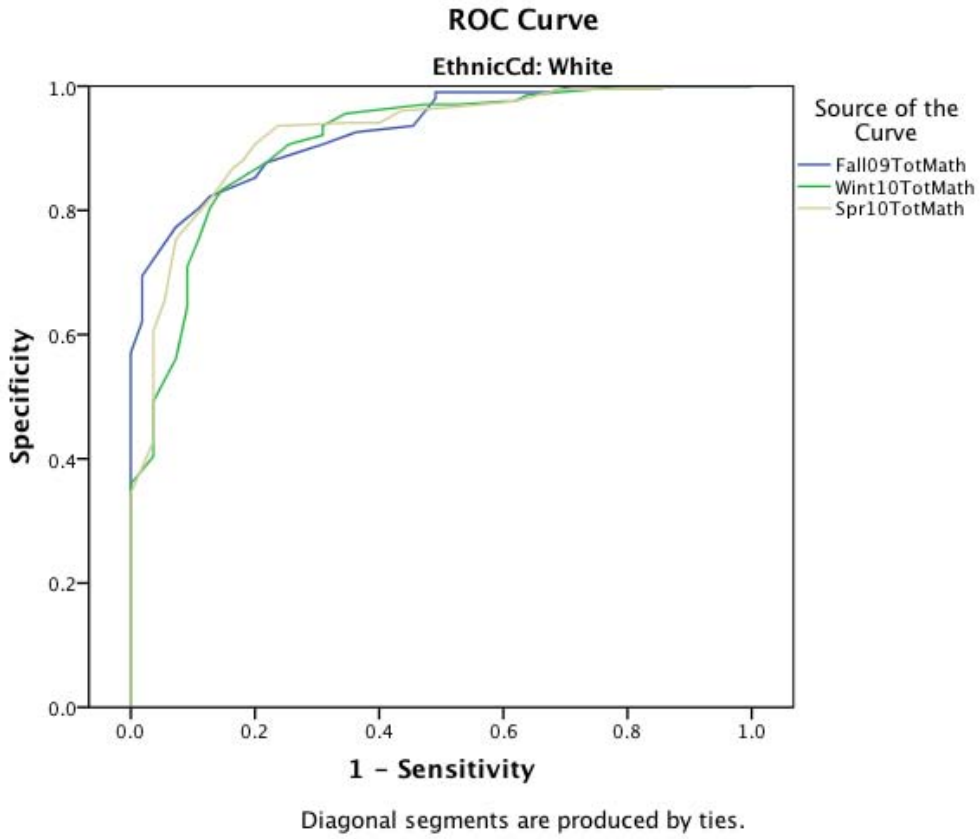
MSP_PLC[a]	Valid N (listwise)
Positive[b]	203
Negative	55
Missing	1248

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 1.

c. EthnicCd = White



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.929	.016	.000	.897	.960
Wint10TotMath	.909	.022	.000	.866	.953
Spr10TotMath	.922	.020	.000	.882	.961

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
12	1	0
14	1	0.036
15.5	1	0.055
16.5	1	0.091
17.5	1	0.127
18.5	1	0.164
19.5	1	0.273
20.5	1	0.291
21.5	0.99	0.327
22.5	0.99	0.455
23.5	0.99	0.509
24.5	0.98	0.509
25.5	0.936	0.545
26.5	0.926	0.636
27.5	0.906	0.691
28.5	0.877	0.782
29.5	0.852	0.8
30.5	0.823	0.873
31.5	0.803	0.891
32.5	0.773	0.927
33.5	0.695	0.982
34.5	0.621	0.982
35.5	0.571	1
36.5	0.537	1
37.5	0.478	1
38.5	0.394	1
39.5	0.325	1
40.5	0.266	1
41.5	0.217	1
42.5	0.143	1
43.5	0.094	1
44.5	0.044	1
46	0	1

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	61	45	106
	Meets or exceeds	10	202	212
Total		71	247	318

a. EthnicCd = White

Grade 8
Winter Benchmark – White

Cut score	Sensitivity	Specificity
12	1	0
15.5	1	0.018
18.5	1	0.091
19.5	1	0.164
20.5	1	0.218
21.5	0.995	0.255
22.5	0.99	0.309
23.5	0.985	0.364
24.5	0.975	0.382
25.5	0.975	0.4
26.5	0.97	0.473
27.5	0.97	0.527
28.5	0.956	0.655
29.5	0.936	0.691
30.5	0.921	0.691
31.5	0.906	0.745
32.5	0.877	0.782
33.5	**0.833**	**0.855**
34.5	0.803	0.873
35.5	0.754	0.891
36.5	0.709	0.909
37.5	0.645	0.909
38.5	0.562	0.927
39.5	0.493	0.964
40.5	0.404	0.964
41.5	0.36	1
42.5	0.251	1
43.5	0.158	1
44.5	0.049	1
46	0	1

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	95	80	175
	Meets or exceeds	8	201	209
Total		103	281	384

a. EthnicCd = White

Grade 8
Spring Benchmark – White

Cut score	Sensitivity	Specificity
13	1	0
14.5	1	0.018
15.5	1	0.036
16.5	1	0.055
17.5	1	0.073
18.5	1	0.109
19.5	1	0.145
20.5	0.995	0.145
21.5	0.995	0.182
22.5	0.995	0.273
23.5	0.995	0.309
24.5	0.985	0.345
25.5	0.975	0.382
26.5	0.966	0.491
27.5	0.961	0.564
28.5	0.941	0.6
29.5	0.941	0.655
30.5	0.936	0.764
31.5	0.906	0.8
32.5	0.882	0.818
33.5	**0.867**	**0.836**
34.5	0.818	0.873
35.5	0.754	0.927
36.5	0.655	0.945
37.5	0.606	0.964
38.5	0.512	0.964
39.5	0.429	0.964
40.5	0.345	1
41.5	0.31	1
42.5	0.227	1
43.5	0.103	1
44.5	0.044	1
46	0	1

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	287	180	467
	Meets or exceeds	61	448	509
Total		348	628	976

a. EthnicCd = White

Student Subgroup: Multiethnic

Grade 3

Case Processing Summary[c]

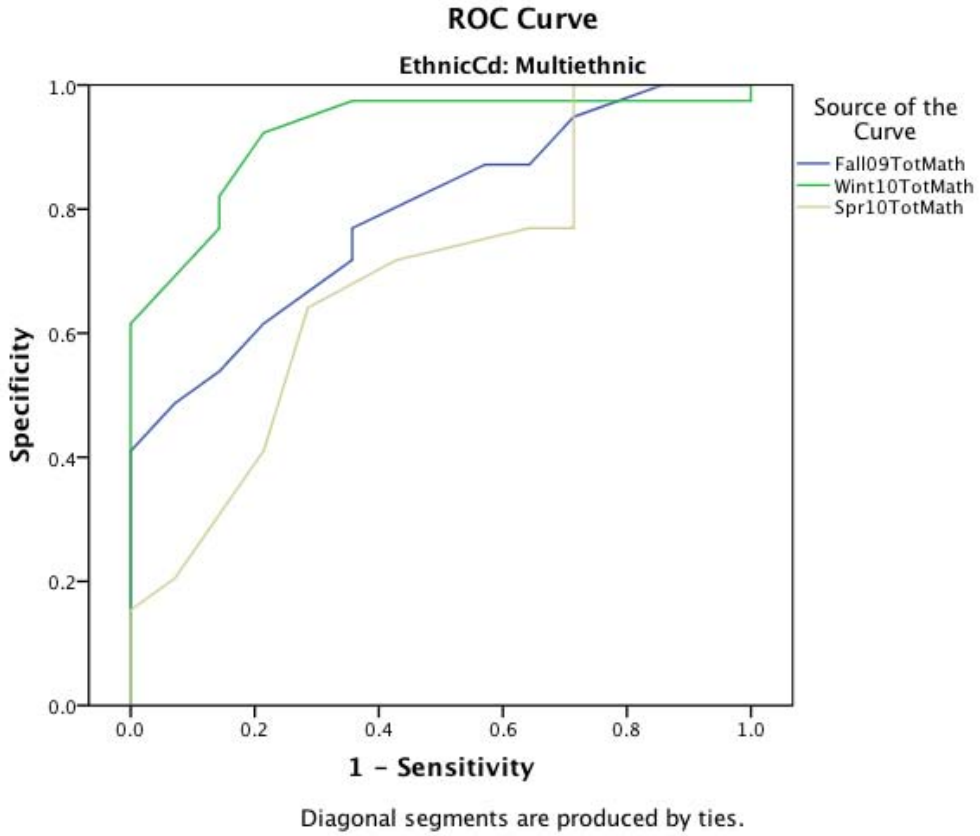
MSP_PLC[a]	Valid N (listwise)
Positive[b]	39
Negative	14
Missing	152

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 1.

c. EthnicCd = Multiethnic



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.790	.064	.001	.665	.916
Wint10TotMath	.923	.039	.000	.847	1.000
Spr10TotMath	.691	.083	.035	.528	.854

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 3
Fall Benchmark – Multiethnic

Cut score	Sensitivity	Specificity
18.00	0.000	1.000
20.50	0.071	1.000
24.00	0.143	1.000
26.50	0.286	.949
27.50	0.357	.872
28.50	0.429	.872
29.50	0.643	.769
30.50	**0.643**	**.718**
31.50	0.714	.667
32.50	0.786	.615
33.50	0.857	.538
34.50	0.929	.487
35.50	1.000	.410
36.50	1.000	.359
37.50	1.000	.308
38.50	1.000	.103
40.00	1.000	.077
41.50	1.000	.051
42.50	1.000	.026
44.00	1.000	.000

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	12	11	23
	Meets or exceeds	8	30	38
Total		20	41	61

a. EthnicCd = Multiethnic

Grade 3
Winter Benchmark – Multiethnic

Cut score	Sensitivity	Specificity
22.00	0.000	1.000
24.00	0.000	.974
25.50	0.143	.974
28.00	0.286	.974
30.50	0.429	.974
32.00	0.571	.974
33.50	0.643	.974
35.00	**0.786**	**.923**
36.50	0.857	.821
37.50	0.857	.769
38.50	1.000	.615
39.50	1.000	.564
40.50	1.000	.436
41.50	1.000	.308
42.50	1.000	.154
43.50	1.000	.128
44.50	1.000	.077
46.00	1.000	.000

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	15	8	23
	Meets or exceeds	3	45	48
Total		18	53	71

a. EthnicCd = Multiethnic

Grade 3
Spring Benchmark – Multiethnic

Cut score	Sensitivity	Specificity
20.00	0.000	1.000
23.50	0.071	1.000
28.00	0.143	1.000
30.50	0.214	1.000
32.00	0.286	1.000
34.50	0.286	.974
36.50	0.286	.872
37.50	0.286	.769
38.50	**0.357**	**.769**
39.50	0.571	.718
40.50	0.714	.641
41.50	0.786	.410
42.50	0.929	.205
43.50	1.000	.154
44.50	1.000	.051
46.00	1.000	.000

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	15	20	35
	Meets or exceeds	12	45	57
Total		27	65	92

a. EthnicCd = Multiethnic

Grade 4

Case Processing Summary[c]

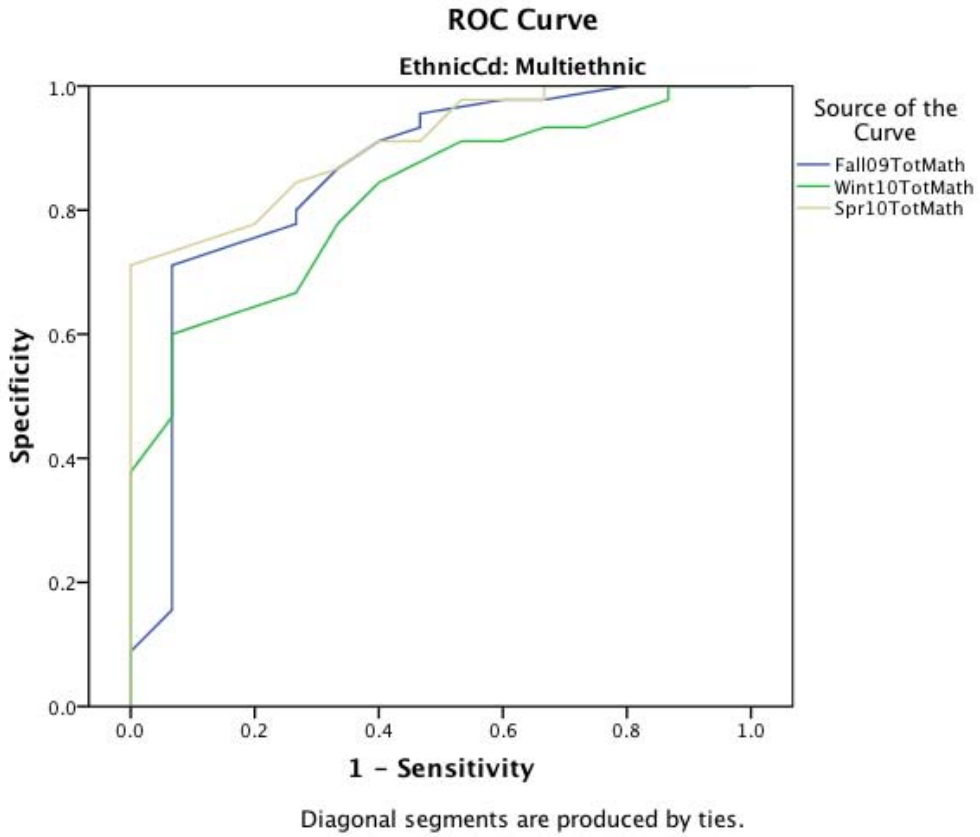
MSP_PLC[a]	Valid N (listwise)
Positive[b]	45
Negative	15
Missing	156

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 1.

c. EthnicCd = Multiethnic



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.859	.062	.000	.738	.981
Wint10TotMath	.819	.057	.000	.708	.931
Spr10TotMath	.907	.037	.000	.833	.980

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
13	0	1
14.5	0.005	1
15.5	0.015	1
16.5	0.03	1
17.5	0.044	1
18.5	0.049	1
19.5	0.064	0.997
20.5	0.099	0.997
21.5	0.128	0.997
22.5	0.167	0.997
23.5	0.251	0.989
24.5	0.3	0.986
25.5	0.394	0.978
26.5	0.468	0.962
27.5	0.517	0.948
28.5	0.576	0.937
29.5	0.64	0.907
30.5	0.724	0.891
31.5	0.768	0.866
32.5	**0.818**	**0.837**
33.5	0.847	0.79
34.5	0.882	0.738
35.5	0.916	0.676
36.5	0.936	0.61
37.5	0.961	0.529
38.5	0.97	0.452
39.5	0.985	0.362
40.5	0.99	0.264
41.5	0.99	0.177
42.5	0.99	0.114
43.5	1	0.054
44.5	1	0.016
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	13	10	23
	Meets or exceeds	4	40	44
Total		17	50	67

a. EthnicCd = Multiethnic

Grade 4
Winter Benchmark – Multiethnic

Cut score	Sensitivity	Specificity
16	0	1
17.5	0.01	1
18.5	0.03	1
19.5	0.039	1
20.5	0.049	1
21.5	0.054	1
22.5	0.079	1
23.5	0.103	1
24.5	0.143	0.997
25.5	0.177	0.995
26.5	0.217	0.986
27.5	0.256	0.984
28.5	0.32	0.984
29.5	0.399	0.975
30.5	0.463	0.948
31.5	0.562	0.94
32.5	0.611	0.924
33.5	0.695	0.888
34.5	0.764	0.856
35.5	**0.837**	**0.801**
36.5	0.897	0.747
37.5	0.911	0.673
38.5	0.956	0.597
39.5	0.97	0.48
40.5	0.985	0.392
41.5	0.995	0.289
42.5	0.995	0.183
43.5	1	0.112
44.5	1	0.041
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	14	12	26
	Meets or exceeds	7	55	62
Total		21	67	88

a. EthnicCd = Multiethnic

Grade 4
Spring Benchmark – Multiethnic

Cut score	Sensitivity	Specificity
9	0	1
11.5	0.005	1
14	0.01	1
15.5	0.015	1
16.5	0.02	1
18	0.025	1
19.5	0.03	1
20.5	0.034	1
21.5	0.059	1
22.5	0.074	1
23.5	0.084	1
24.5	0.094	1
25.5	0.128	1
26.5	0.158	0.997
27.5	0.197	0.997
28.5	0.241	0.997
29.5	0.291	0.992
30.5	0.335	0.989
31.5	0.399	0.981
32.5	0.458	0.967
33.5	0.552	0.967
34.5	0.626	0.954
35.5	0.7	0.932
36.5	0.749	0.918
37.5	0.823	0.88
38.5	**0.867**	**0.82**
39.5	0.931	0.76
40.5	0.97	0.689
41.5	0.99	0.594
42.5	0.995	0.471
43.5	1	0.283
44.5	1	0.128
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	25	15	40
	Meets or exceeds	4	48	52
Total		29	63	92

a. EthnicCd = Multiethnic

Grade 5

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	10
Negative	8
Missing	153

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 1.

c. EthnicCd = Multiethnic

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	6	3	9
	Meets or exceeds	2	9	11
Total		8	12	20

a. EthnicCd = Multiethnic

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	11	4	15
	Meets or exceeds	1	17	18
Total		12	21	33

a. EthnicCd = Multiethnic

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	33	14	47
	Meets or exceeds	1	29	30
Total		34	43	77

a. EthnicCd = Multiethnic

Grade 6

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	12
Negative	7
Missing	106

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 1.

c. EthnicCd = Multiethnic

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	6	4	10
	Meets or exceeds	2	9	11
Total		8	13	21

a. EthnicCd = Multiethnic

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	6	5	11
	Meets or exceeds	1	7	8
Total		7	12	19

a. EthnicCd = Multiethnic

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	48	18	66
	Meets or exceeds	7	37	44
Total		55	55	110

a. EthnicCd = Multiethnic

Grade 7

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	12
Negative	4
Missing	70

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 1.

c. EthnicCd = Multiethnic

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	6	2	8
	Meets or exceeds	0	10	10
Total		6	12	18

a. EthnicCd = Multiethnic

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	7	3	10
	Meets or exceeds	0	10	10
Total		7	13	20

a. EthnicCd = Multiethnic

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	25	8	33
	Meets or exceeds	4	29	33
Total		29	37	66

a. EthnicCd = Multiethnic

Grade 8

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	8
Negative	2
Missing	21

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 1.

c. EthnicCd = Multiethnic

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	2	1	3
	Meets or exceeds	0	8	8
Total		2	9	11

a. EthnicCd = Multiethnic

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	2	2	4
	Meets or exceeds	0	7	7
Total		2	9	11

a. EthnicCd = Multiethnic

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	4	5	9
	Meets or exceeds	4	8	12
Total		8	13	21

a. EthnicCd = Multiethnic

Student Subgroup: Non-ELL

Grade 3

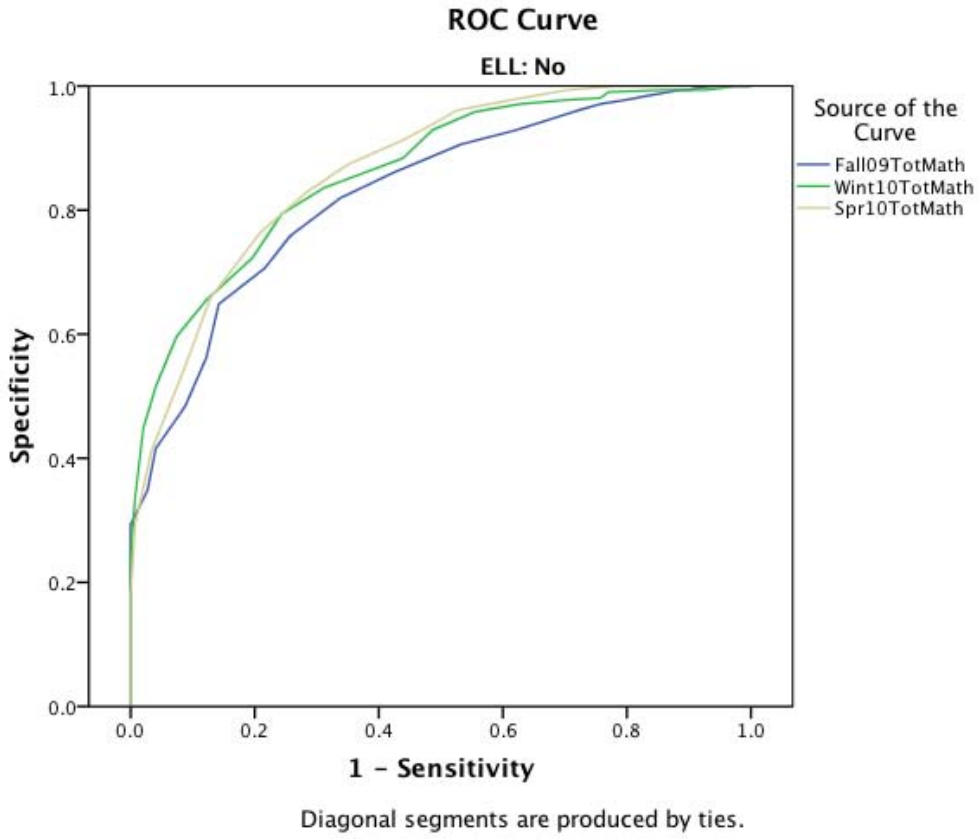
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	310
Negative	148
Missing	1370

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

a. The positive actual state is 1.

b. ELL = No



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.828	.019	.000	.790	.866
Wint10TotMath	.863	.017	.000	.830	.896
Spr10TotMath	.866	.017	.000	.831	.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. ELL = No

Grade 3
Fall Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
11	0	1
13	0.007	1
15.5	0.014	1
17.5	0.027	1
18.5	0.061	1
19.5	0.088	0.997
20.5	0.101	0.994
21.5	0.115	0.994
22.5	0.169	0.984
23.5	0.203	0.977
24.5	0.243	0.971
25.5	0.277	0.961
26.5	0.378	0.929
27.5	0.466	0.906
28.5	0.574	0.861
29.5	0.662	0.819
30.5	**0.743**	**0.758**
31.5	0.784	0.706
32.5	0.858	0.648
33.5	0.878	0.561
34.5	0.912	0.484
35.5	0.959	0.416
36.5	0.973	0.348
37.5	1	0.294
38.5	1	0.2
39.5	1	0.152
40.5	1	0.116
41.5	1	0.061
42.5	1	0.035
43.5	1	0.016
44.5	1	0.003
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	140	83	223
	Meets or exceeds	45	269	314
Total		185	352	537

a. ELL = No

Grade 3
Winter Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
17	0	1
18.5	0.007	1
20.5	0.027	1
22.5	0.047	0.997
23.5	0.074	0.994
24.5	0.108	0.994
25.5	0.142	0.994
26.5	0.23	0.99
27.5	0.243	0.981
28.5	0.297	0.977
29.5	0.372	0.971
30.5	0.446	0.958
31.5	0.514	0.929
32.5	0.561	0.884
33.5	0.689	0.835
34.5	0.757	0.794
35.5	**0.804**	**0.723**
36.5	0.878	0.655
37.5	0.926	0.597
38.5	0.959	0.516
39.5	0.98	0.448
40.5	0.993	0.332
41.5	1	0.245
42.5	1	0.142
43.5	1	0.094
44.5	1	0.039
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	164	102	266
	Meets or exceeds	41	369	410
Total		205	471	676

a. ELL = No

Grade 3
Spring Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
16	0	1
17.5	0.007	1
19	0.014	1
20.5	0.02	1
21.5	0.034	1
22.5	0.041	1
23.5	0.054	1
24.5	0.074	1
25.5	0.088	1
26.5	0.108	1
27.5	0.142	1
28.5	0.162	1
29.5	0.216	1
30.5	0.257	0.997
31.5	0.297	0.994
32.5	0.351	0.984
33.5	0.473	0.961
34.5	0.514	0.939
35.5	0.561	0.913
36.5	0.649	0.874
37.5	0.716	0.829
38.5	**0.791**	**0.765**
39.5	0.872	0.658
40.5	0.912	0.548
41.5	0.966	0.413
42.5	0.993	0.29
43.5	1	0.177
44.5	1	0.055
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	238	194	432
	Meets or exceeds	41	375	416
Total		279	569	848

a. ELL = No

Grade 4

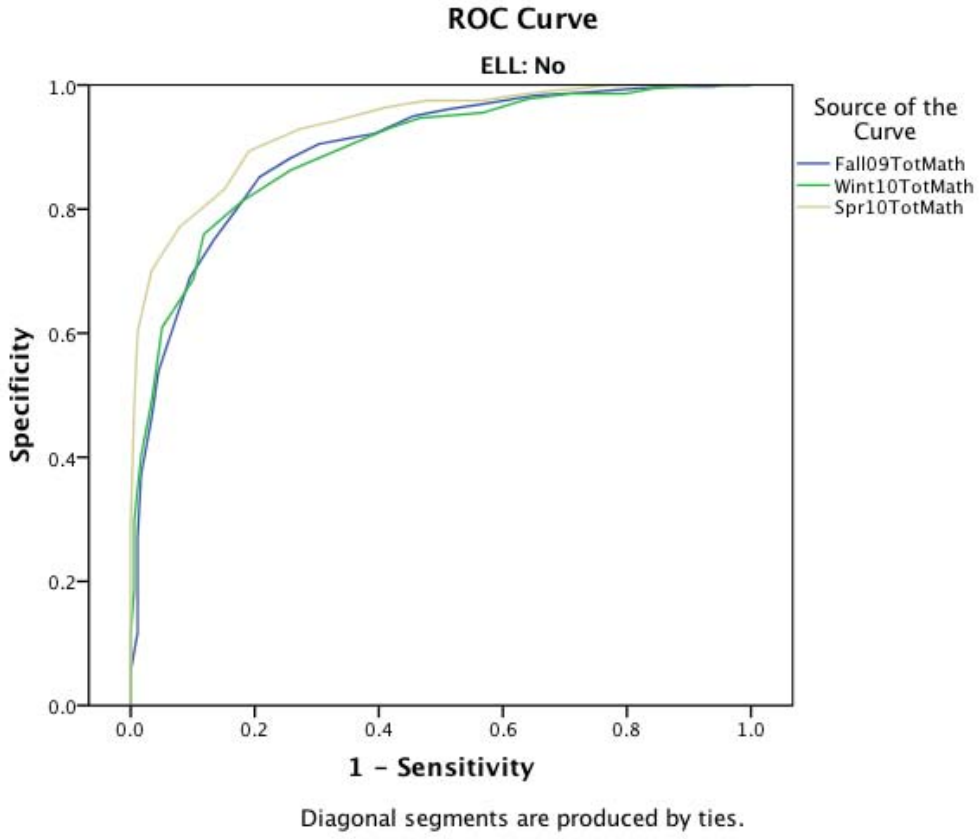
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	358
Negative	178
Missing	1303

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

a. The positive actual state is 1.

b. ELL = No



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.894	.015	.000	.865	.922
Wint10TotMath	.893	.014	.000	.865	.920
Spr10TotMath	.933	.010	.000	.913	.953

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
13	0	1
14.5	0.006	1
15.5	0.011	1
16.5	0.028	1
17.5	0.039	1
18.5	0.045	1
19.5	0.062	0.997
20.5	0.084	0.997
21.5	0.112	0.997
22.5	0.146	0.997
23.5	0.225	0.992
24.5	0.258	0.989
25.5	0.348	0.983
26.5	0.433	0.969
27.5	0.489	0.961
28.5	0.545	0.95
29.5	0.607	0.922
30.5	0.697	0.905
31.5	0.742	0.883
32.5	**0.792**	**0.852**
33.5	0.826	0.804
34.5	0.865	0.751
35.5	0.904	0.69
36.5	0.927	0.623
37.5	0.955	0.539
38.5	0.966	0.464
39.5	0.983	0.372
40.5	0.989	0.271
41.5	0.989	0.182
42.5	0.989	0.117
43.5	1	0.056
44.5	1	0.017
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	176	78	254
	Meets or exceeds	35	334	369
Total		211	412	623

a. ELL = No

Grade 4
Winter Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
16	0	1
17.5	0.006	1
18.5	0.028	1
19.5	0.039	1
21	0.051	1
22.5	0.062	1
23.5	0.084	1
24.5	0.124	0.997
25.5	0.157	0.994
26.5	0.202	0.986
27.5	0.236	0.986
28.5	0.292	0.986
29.5	0.36	0.978
30.5	0.433	0.955
31.5	0.534	0.947
32.5	0.584	0.93
33.5	0.663	0.897
34.5	0.742	0.863
35.5	**0.82**	**0.813**
36.5	0.882	0.76
37.5	0.899	0.687
38.5	0.949	0.609
39.5	0.966	0.489
40.5	0.983	0.402
41.5	0.994	0.296
42.5	0.994	0.187
43.5	1	0.115
44.5	1	0.042
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	233	102	335
	Meets or exceeds	49	430	479
Total		282	532	814

a. ELL = No

Grade 4
Spring Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
9	0	1
13	0.006	1
16.5	0.011	1
18	0.017	1
19.5	0.022	1
20.5	0.028	1
21.5	0.045	1
22.5	0.056	1
23.5	0.067	1
24.5	0.079	1
25.5	0.112	1
26.5	0.14	1
27.5	0.18	1
28.5	0.23	1
29.5	0.275	0.994
30.5	0.315	0.992
31.5	0.382	0.983
32.5	0.433	0.975
33.5	0.522	0.975
34.5	0.59	0.964
35.5	0.674	0.941
36.5	0.725	0.93
37.5	0.809	0.894
38.5	**0.848**	**0.832**
39.5	0.921	0.771
40.5	0.966	0.701
41.5	0.989	0.603
42.5	0.994	0.48
43.5	1	0.288
44.5	1	0.131
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	263	133	396
	Meets or exceeds	41	423	464
Total		304	556	860

a. ELL = No

Grade 5

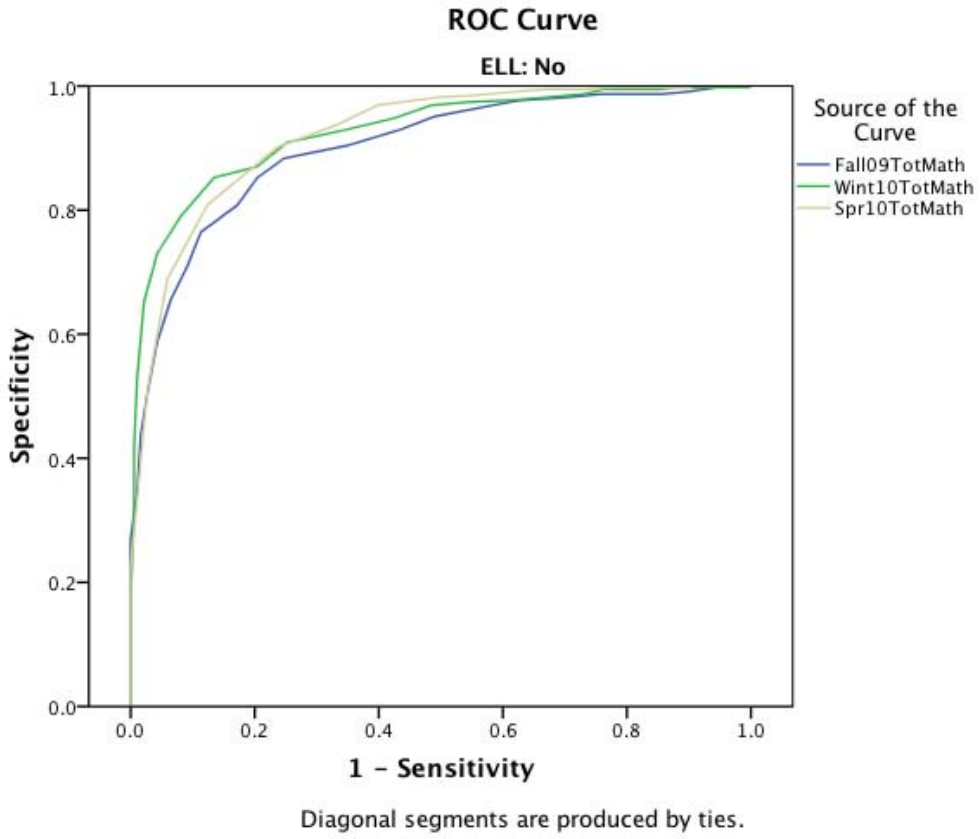
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	386
Negative	186
Missing	1246

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

a. The positive actual state is 1.

b. ELL = No



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.900	.013	.000	.874	.925
Wint10TotMath	.927	.011	.000	.906	.948
Spr10TotMath	.921	.012	.000	.898	.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. ELL = No

Grade 5
Fall Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
13	0	1
14.5	0.005	1
15.5	0.016	1
16.5	0.038	1
17.5	0.048	1
18.5	0.059	0.997
19.5	0.091	0.992
20.5	0.113	0.99
21.5	0.145	0.987
22.5	0.177	0.987
23.5	0.242	0.987
24.5	0.296	0.982
25.5	0.376	0.977
26.5	0.43	0.966
27.5	0.511	0.951
28.5	0.565	0.93
29.5	0.651	0.904
30.5	0.753	0.883
31.5	0.796	0.852
32.5	**0.828**	**0.808**
33.5	0.887	0.764
34.5	0.909	0.71
35.5	0.935	0.655
36.5	0.957	0.588
37.5	0.973	0.505
38.5	0.984	0.438
39.5	0.989	0.35
40.5	1	0.269
41.5	1	0.212
42.5	1	0.13
43.5	1	0.078
44.5	1	0.036
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	162	76	238
	Meets or exceeds	34	331	365
Total		196	407	603

a. ELL = No

Grade 5
Winter Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
16	0	1
18	0.005	0.997
19.5	0.022	0.997
20.5	0.027	0.997
21.5	0.043	0.997
22.5	0.07	0.997
23.5	0.124	0.997
24.5	0.151	0.995
25.5	0.194	0.995
26.5	0.237	0.995
27.5	0.269	0.987
28.5	0.328	0.982
29.5	0.392	0.977
30.5	0.457	0.974
31.5	0.516	0.969
32.5	0.575	0.948
33.5	0.651	0.93
34.5	0.747	0.909
35.5	0.796	0.87
36.5	**0.866**	**0.852**
37.5	0.919	0.79
38.5	0.957	0.731
39.5	0.978	0.653
40.5	0.989	0.534
41.5	0.995	0.417
42.5	0.995	0.313
43.5	1	0.176
44.5	1	0.078
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	221	77	298
	Meets or exceeds	37	402	439
Total		258	479	737

a. ELL = No

Grade 5
Spring Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
16	0	1
18	0.005	1
20.5	0.011	1
22.5	0.048	1
24	0.065	1
25.5	0.097	1
26.5	0.097	0.997
27.5	0.129	0.997
28.5	0.14	0.997
29.5	0.167	0.997
30.5	0.177	0.997
31.5	0.199	0.997
32.5	0.226	0.997
33.5	0.269	0.995
34.5	0.328	0.995
35.5	0.366	0.992
36.5	0.452	0.984
37.5	0.505	0.982
38.5	0.602	0.969
39.5	0.667	0.938
40.5	0.763	0.902
41.5	**0.876**	**0.808**
42.5	0.941	0.689
43.5	0.973	0.51
44.5	1	0.223
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	324	166	490
	Meets or exceeds	42	458	500
Total		366	624	990

a. ELL = No

Grade 6

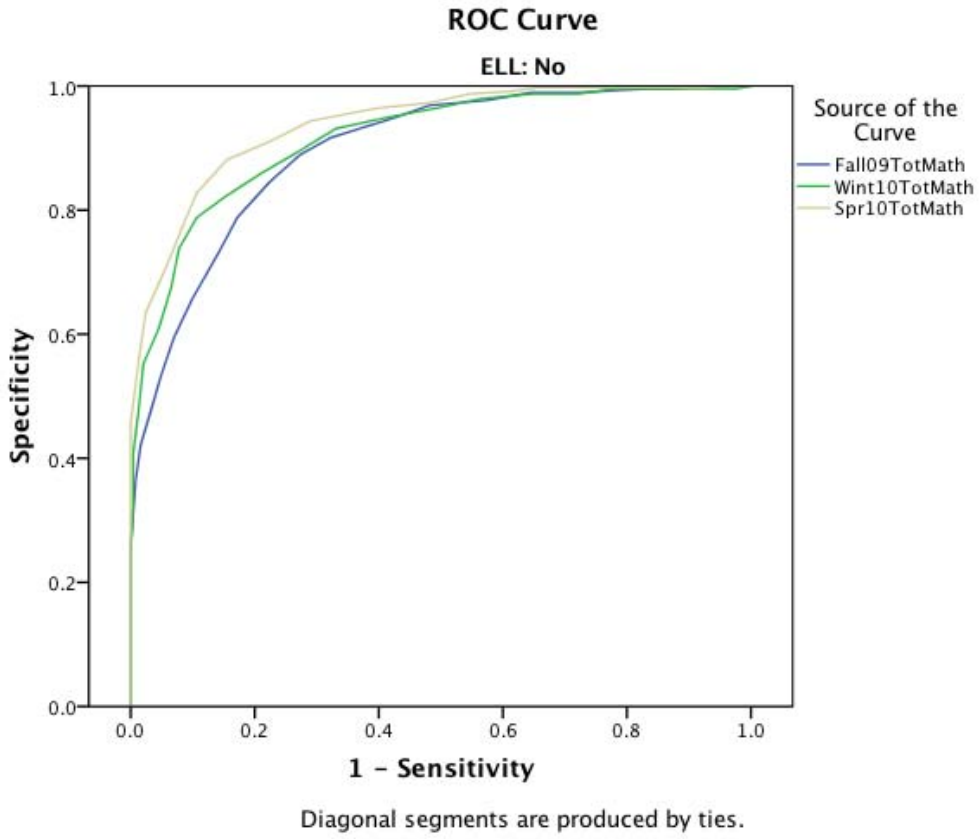
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	480
Negative	245
Missing	1065

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

a. The positive actual state is 1.

b. ELL = No



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.896	.012	.000	.873	.920
Wint10TotMath	.916	.010	.000	.895	.936
Spr10TotMath	.937	.008	.000	.921	.954

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
11	0	1
13	0.004	1
14.5	0.008	1
15.5	0.016	1
16.5	0.041	1
17.5	0.065	1
18.5	0.098	0.998
19.5	0.131	0.996
20.5	0.159	0.996
21.5	0.208	0.994
22.5	0.273	0.99
23.5	0.355	0.99
24.5	0.424	0.977
25.5	0.518	0.969
26.5	0.571	0.95
27.5	0.678	0.917
28.5	0.727	0.89
29.5	0.776	0.846
30.5	0.829	0.788
31.5	**0.857**	**0.733**
32.5	0.902	0.654
33.5	0.931	0.594
34.5	0.951	0.533
35.5	0.967	0.477
36.5	0.984	0.423
37.5	0.992	0.365
38.5	0.996	0.313
39.5	1	0.254
40.5	1	0.21
41.5	1	0.158
42.5	1	0.117
43.5	1	0.079
44.5	1	0.04
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	241	139	380
	Meets or exceeds	38	383	421
Total		279	522	801

a. ELL = No

Grade 6
Winter Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
12	0	1
14	0.004	1
15.5	0.012	0.998
16.5	0.02	0.996
17.5	0.037	0.996
18.5	0.057	0.996
19.5	0.069	0.996
20.5	0.106	0.996
21.5	0.131	0.996
22.5	0.171	0.996
23.5	0.22	0.996
24.5	0.278	0.988
25.5	0.351	0.988
26.5	0.437	0.979
27.5	0.506	0.965
28.5	0.584	0.95
29.5	0.669	0.931
30.5	0.731	0.894
31.5	0.788	0.86
32.5	**0.849**	**0.821**
33.5	0.894	0.788
34.5	0.922	0.738
35.5	0.935	0.675
36.5	0.955	0.608
37.5	0.98	0.552
38.5	0.988	0.473
39.5	0.996	0.408
40.5	0.996	0.329
41.5	1	0.25
42.5	1	0.177
43.5	1	0.1
44.5	1	0.042
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	252	137	389
	Meets or exceeds	21	386	407
Total		273	523	796

a. ELL = No

Grade 6
Spring Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.008	1
13.5	0.016	1
15	0.02	1
16.5	0.029	1
17.5	0.041	1
18.5	0.049	1
20	0.057	1
21.5	0.073	0.998
22.5	0.086	0.998
23.5	0.11	0.998
24.5	0.131	0.998
25.5	0.159	0.998
26.5	0.18	0.998
27.5	0.22	0.998
28.5	0.265	0.998
29.5	0.343	0.998
30.5	0.384	0.992
31.5	0.453	0.988
32.5	0.518	0.973
33.5	0.6	0.965
34.5	0.71	0.944
35.5	0.771	0.913
36.5	0.845	0.881
37.5	**0.894**	**0.827**
38.5	0.918	0.769
39.5	0.943	0.708
40.5	0.976	0.635
41.5	0.988	0.554
42.5	1	0.456
43.5	1	0.304
44.5	1	0.123
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	541	218	759
	Meets or exceeds	70	784	854
Total		611	1002	1613

a. ELL = No

Grade 7

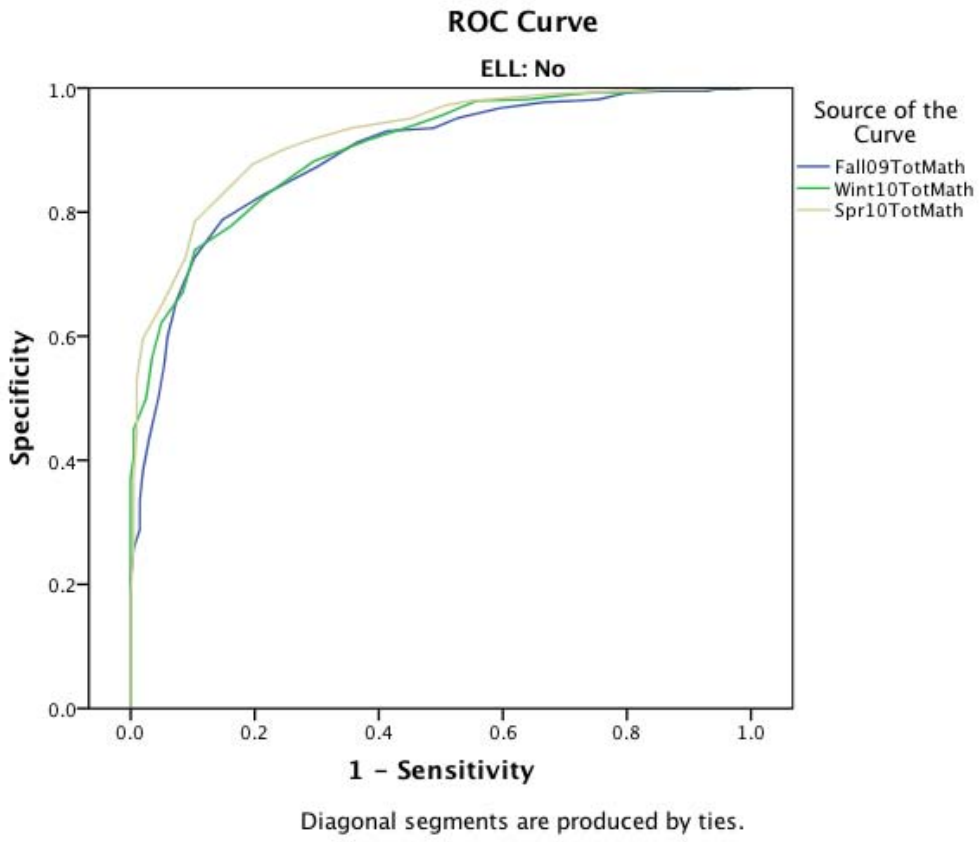
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	433
Negative	203
Missing	1131

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

a. The positive actual state is 1.

b. ELL = No



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.889	.013	.000	.862	.915
Wint10TotMath	.900	.012	.000	.876	.923
Spr10TotMath	.920	.011	.000	.899	.941

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
8	0	1
10	0.005	1
11.5	0.015	1
12.5	0.02	0.998
13.5	0.039	0.998
14.5	0.059	0.998
15.5	0.069	0.995
16.5	0.099	0.995
17.5	0.133	0.995
18.5	0.197	0.993
19.5	0.246	0.982
20.5	0.286	0.979
21.5	0.335	0.977
22.5	0.404	0.968
23.5	0.473	0.952
24.5	0.512	0.935
25.5	0.586	0.931
26.5	0.635	0.912
27.5	0.7	0.873
28.5	**0.788**	**0.827**
29.5	0.852	0.788
30.5	0.897	0.727
31.5	0.926	0.658
32.5	0.941	0.598
33.5	0.946	0.554
34.5	0.956	0.499
35.5	0.97	0.434
36.5	0.98	0.383
37.5	0.985	0.335
38.5	0.985	0.289
39.5	0.995	0.259
40.5	1	0.206
41.5	1	0.155
42.5	1	0.109
43.5	1	0.074
44.5	1	0.032
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	209	102	311
	Meets or exceeds	35	374	409
Total		244	476	720

a. ELL = No

Grade 7
Winter Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.005	1
12.5	0.015	1
13.5	0.025	1
14.5	0.034	1
15.5	0.069	1
16.5	0.089	1
17.5	0.138	1
18.5	0.172	0.998
19.5	0.197	0.993
20.5	0.251	0.993
21.5	0.3	0.988
22.5	0.36	0.982
23.5	0.443	0.979
24.5	0.498	0.956
25.5	0.537	0.942
26.5	0.616	0.917
27.5	0.704	0.882
28.5	**0.783**	**0.827**
29.5	0.837	0.778
30.5	0.897	0.739
31.5	0.916	0.67
32.5	0.951	0.621
33.5	0.966	0.566
34.5	0.975	0.499
35.5	0.995	0.45
36.5	0.995	0.406
37.5	1	0.372
38.5	1	0.326
39.5	1	0.289
40.5	1	0.24
41.5	1	0.189
42.5	1	0.139
43.5	1	0.076
44.5	1	0.035
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	195	108	303
	Meets or exceeds	38	392	430
Total		233	500	733

a. ELL = No

Grade 7
Spring Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
11	0	1
12.5	0.005	1
13.5	0.02	1
14.5	0.03	1
15.5	0.049	1
16.5	0.069	1
17.5	0.079	0.998
18.5	0.103	0.998
19.5	0.138	0.998
20.5	0.172	0.995
21.5	0.197	0.995
22.5	0.217	0.995
23.5	0.256	0.993
24.5	0.32	0.991
25.5	0.369	0.986
26.5	0.453	0.979
27.5	0.493	0.972
28.5	0.547	0.952
29.5	0.645	0.935
30.5	0.709	0.917
31.5	0.754	0.901
32.5	0.803	0.878
33.5	**0.842**	**0.838**
34.5	0.897	0.785
35.5	0.911	0.727
36.5	0.946	0.658
37.5	0.98	0.596
38.5	0.99	0.531
39.5	0.99	0.443
40.5	0.995	0.374
41.5	0.995	0.268
42.5	1	0.182
43.5	1	0.115
44.5	1	0.046
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	539	207	746
	Meets or exceeds	68	722	790
Total		607	929	1536

a. ELL = No

Grade 8

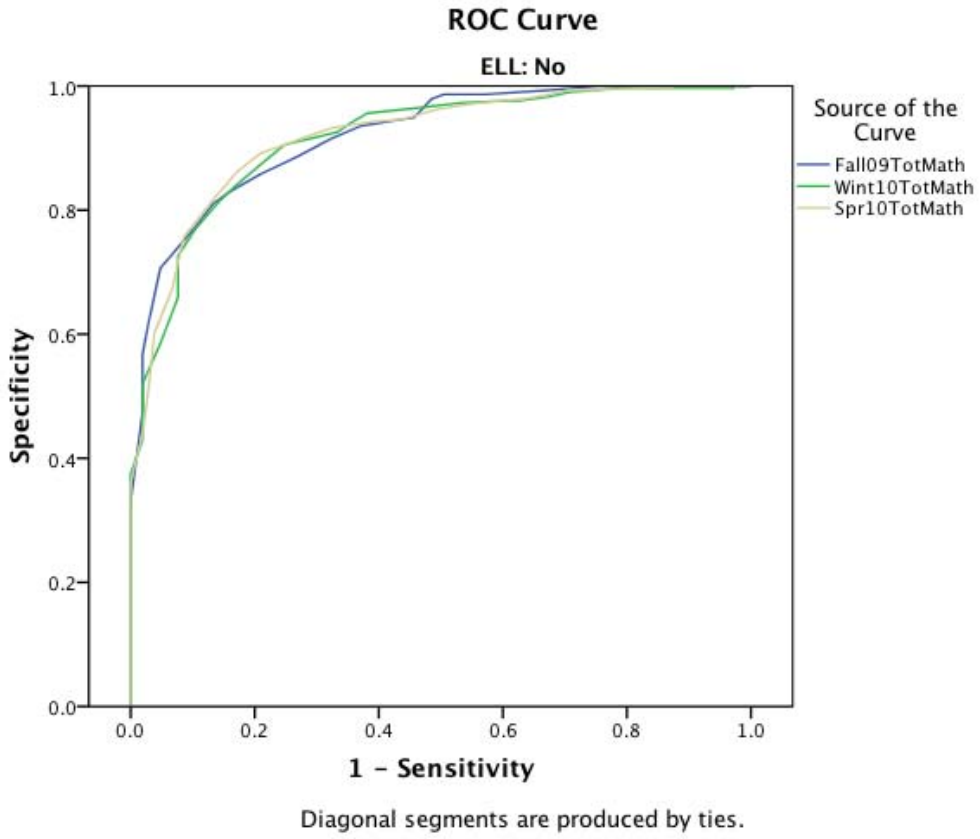
Case Processing Summary[b]

MSP_PLC	Valid N (listwise)
Positive[a]	296
Negative	105
Missing	1897

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

a. The positive actual state is 1.

b. ELL = No



Area Under the Curve[c]

Test Result Variable(s)	Area	Std. Error[a]	Asymptotic Sig.[b]	Asymptotic 95% Confidence Interval	
				Lower Bound	Upper Bound
Fall09TotMath	.920	.014	.000	.892	.947
Wint10TotMath	.915	.015	.000	.885	.944
Spr10TotMath	.917	.015	.000	.888	.946

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
12	0	1
13.5	0.019	1
14.5	0.029	1
15.5	0.048	1
16.5	0.067	1
17.5	0.095	1
18.5	0.143	1
19.5	0.2	1
20.5	0.248	1
21.5	0.324	0.993
22.5	0.429	0.986
23.5	0.495	0.986
24.5	0.514	0.98
25.5	0.543	0.949
26.5	0.629	0.936
27.5	0.676	0.916
28.5	0.733	0.885
29.5	0.79	0.858
30.5	0.838	0.831
31.5	**0.867**	**0.811**
32.5	0.895	0.774
33.5	0.952	0.706
34.5	0.971	0.618
35.5	0.981	0.568
36.5	0.981	0.53
37.5	0.981	0.473
38.5	0.99	0.402
39.5	1	0.331
40.5	1	0.274
41.5	1	0.22
42.5	1	0.155
43.5	1	0.101
44.5	1	0.054
46	1	0

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	111	64	175
	Meets or exceeds	23	295	318
Total		134	359	493

a. ELL = No

Grade 8
Winter Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
9	0	1
11	0.01	1
12.5	0.019	1
13.5	0.029	1
14.5	0.029	0.997
16	0.038	0.997
17.5	0.057	0.997
18.5	0.114	0.997
19.5	0.181	0.997
20.5	0.219	0.997
21.5	0.248	0.993
22.5	0.295	0.99
23.5	0.324	0.983
24.5	0.371	0.976
25.5	0.39	0.976
26.5	0.467	0.973
27.5	0.524	0.966
28.5	0.619	0.956
29.5	0.648	0.939
30.5	0.667	0.926
31.5	0.752	0.905
32.5	0.781	0.882
33.5	0.829	0.841
34.5	**0.857**	**0.814**
35.5	0.895	0.77
36.5	0.924	0.726
37.5	0.924	0.659
38.5	0.952	0.584
39.5	0.981	0.52
40.5	0.981	0.429
41.5	1	0.375
42.5	1	0.257
43.5	1	0.159
44.5	1	0.047
46	1	0

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	175	113	288
	Meets or exceeds	17	293	310
Total		192	406	598

a. ELL = No

Grade 8
Spring Benchmark – Non-ELL

Cut score	Sensitivity	Specificity
10	0	1
11.5	0.01	1
12.5	0.019	1
13.5	0.029	1
14.5	0.038	1
15.5	0.048	1
16.5	0.057	1
17.5	0.076	1
18.5	0.095	1
19.5	0.124	1
20.5	0.133	0.997
21.5	0.181	0.997
22.5	0.257	0.993
23.5	0.295	0.993
24.5	0.324	0.986
25.5	0.362	0.98
26.5	0.438	0.973
27.5	0.505	0.963
28.5	0.562	0.946
29.5	0.61	0.943
30.5	0.676	0.932
31.5	0.733	0.912
32.5	0.79	0.892
33.5	0.829	0.861
34.5	**0.867**	**0.818**
35.5	0.914	0.757
36.5	0.933	0.672
37.5	0.962	0.601
38.5	0.971	0.51
39.5	0.981	0.439
40.5	1	0.361
41.5	1	0.294
42.5	1	0.203
43.5	1	0.101
44.5	1	0.044
46	1	0

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	476	257	733
	Meets or exceeds	81	614	695
Total		557	871	1428

a. ELL = No

Student Subgroup: ELL

Grade 3

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	9
Negative	30
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 1.

c. ELL = Yes

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	43	7	50
	Meets or exceeds	3	4	7
Total		46	11	57

a. ELL = Yes

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	32	7	39
	Meets or exceeds	3	3	6
Total		35	10	45

a. ELL = Yes

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	56	13	69
	Meets or exceeds	1	5	6
Total		57	18	75

a. ELL = Yes

Grade 4

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	9
Negative	25
Missing	55

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 1.

c. ELL = Yes

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	37	9	46
	Meets or exceeds	0	2	2
Total		37	11	48

a. ELL = Yes

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	30	7	37
	Meets or exceeds	2	4	6
Total		32	11	43

a. ELL = Yes

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	41	6	47
	Meets or exceeds	0	4	4
Total		41	10	51

a. ELL = Yes

Grade 5

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	7
Negative	28
Missing	43

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 1.

c. ELL = Yes

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	28	2	30
	Meets or exceeds	1	6	7
Total		29	8	37

a. ELL = Yes

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	30	1	31
	Meets or exceeds	1	7	8
Total		31	8	39

a. ELL = Yes

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	37	4	41
	Meets or exceeds	3	8	11
Total		40	12	52

a. ELL = Yes

Grade 6

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	5
Negative	22
Missing	35

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 1.

c. ELL = Yes

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	22	2	24
	Meets or exceeds	1	3	4
Total		23	5	28

a. ELL = Yes

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	25	1	26
	Meets or exceeds	2	6	8
Total		27	7	34

a. ELL = Yes

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	41	1	42
	Meets or exceeds	2	11	13
Total		43	12	55

a. ELL = Yes

Grade 7

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	3
Negative	27
Missing	33

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 1.

c. ELL = Yes

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	26	1	27
	Meets or exceeds	3	3	6
Total		29	4	33

a. ELL = Yes

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	31	3	34
	Meets or exceeds	3	2	5
Total		34	5	39

a. ELL = Yes

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	43	2	45
	Meets or exceeds	3	6	9
Total		46	8	54

a. ELL = Yes

Grade 8

Case Processing Summary[c]

MSP_PLC[a]	Valid N (listwise)
Positive[b]	5
Negative	11
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 1.

c. ELL = Yes

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

FallCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
FallCut	Does not meet	12	3	15
	Meets or exceeds	1	4	5
Total		13	7	20

a. ELL = Yes

WintCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
WintCut	Does not meet	28	7	35
	Meets or exceeds	0	3	3
Total		28	10	38

a. ELL = Yes

SprCut * MSP_PLC Crosstabulation[a]

Count

		MSP_PLC		
		0	1	Total
SprCut	Does not meet	20	7	27
	Meets or exceeds	3	4	7
Total		23	11	34

a. ELL = Yes