



National Evaluation Series™

Minnesota NES

Essential Academic Skills (EAS) Subtests I, II, III

2016 STANDARD SETTING

RESULTS

May 2016

Prepared for:

Minnesota Board of Teaching
1500 Highway 36 West
Roseville, MN 55113-4266



Pearson

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Overview

The Minnesota Board of Teaching (BoT) has contracted with Pearson to adopt the NES Essential Academic Skills (EAS) Subtest I: Reading, Subtest II: Writing, and Subtest III: Mathematics as a requirement for a first-time MN classroom teaching license. At the request of the BoT, Pearson conducted a state validation and standard setting conference for the aforementioned MN NES EAS subtests on April 5 – 6, 2016. This report contains the results from the standard setting activity conducted for the Minnesota NES Essential Academic Skills (EAS) Subtests I, II, and III.

The purpose of the State Validation and Standard Setting is for Minnesota committee members to make judgments regarding the passing standards for the NES EAS subtests I - III. Expert educators and educator preparation faculty from across the state participated in a structured process to make judgments regarding the validity of each test for use in Minnesota. A total of 19 panelists participated in the standard setting activity. Out of the 15 panelists who provided their ethnicity, 10 were white (not Hispanic or Latino), 3 were Asian, and 2 were black or African-American. Appendix A provides names and professional affiliations of the standard setting panelists.

After the panel provided validity ratings for all test items, the panel made individual judgments regarding recommended passing scores for the state, for each MN NES EAS subtest. Specifically, the Minnesota standard setting panel made recommendations regarding the passing scores that a just acceptably qualified candidate must achieve to demonstrate knowledge and skills required to perform the job of an educator receiving an initial educator license in Minnesota. The Minnesota educators participating in the standard setting activity discussed the concept of the just acceptable candidate and the expectations for the just acceptable candidate based on the competencies and descriptive statements in the test frameworks. Following this discussion, the panelists made informed standard setting judgments regarding the passing scores. These standard setting judgments have been compiled and presented in this report in order to enable the BoT to set the passing score for each sub-test. Appendix B provides the results of the anonymous conference evaluation forms filled out by each panelist.

This report includes the following information: raw cut-scores and pass rates (based on the multi-state data) for the national benchmarks used for each one of the NES EAS subtests, raw cut-scores and pass rates (based on the multi-state data) for the Minnesota panel-recommended cut-scores for each one of the NES EAS subtests, standard error of measurement (SEM) adjustments associated with the MN panel-recommended cut-scores for each NES EAS sub-test and associated pass rates (based on multi-state data), and a breakdown of pass rates associated with the MN panel-recommended cut-scores for each NES EAS by demographic groups.

Raw Cut-Scores and Pass Rates for the National Benchmark

Field No.	<i>N</i>	MC Raw Score Cut	CR Raw Score Cut	*Pass rate at National Benchmark (%)
001	667	24	--	86%
002	657	20	6	76%
003	316	24	--	80%

*Pass rates for first time test takers in a sample of the multi-state population that took the test forms on which the national benchmarks were set (this information informed judgments of the national and MN standard setting panels).

Raw Cut-Scores and Pass Rates for the Minnesota Panel-Recommended Cuts

Field No.	<i>N</i>	MC Raw Score Cut	CR Raw Score Cut	*Pass rate at Minnesota Panel-Recommended Cut (%)
001	3615	22	--	93%
002	3317	19	6	83%
003	4782	23	--	82%

*Pass rate for first time test takers in a sample of the multi-state population that took the test forms that share the same cut-scores as the forms on which the national benchmarks were set.



001 Essential Academic Skills Subtest I: Reading
Minnesota Standard Setting Impact: Detailed Results

***NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016***

***Panel Recommended Cut-Scores with -2 to +2 SEM Adjustments
Tests Administered: September 1, 2010 - February 28, 2016***

	Raw Score on Multiple-Choice Section									
	+2 SEM		+1 SEM		PRC		-1 SEM		-2 SEM	
	28		25		22		19		16	
	SS	% Pass	SS	% Pass	SS	% Pass	SS	% Pass	SS	% Pass
001 Essential Academic Skills Subtest I: Reading	249	70%	227	85%	205	93%	184	97%	162	99%

PRC=Panel Recommended Cut

SS=Scaled Score

SEM=Standard Error of Measurement

MC/CR Combination: 100/0

Number of Scorable Multiple-Choice Items: 35

Number of Possible Holistic Score Points in CR Component: Not applicable

Number of Examinees: 3615

National Benchmark Cut-Score = 24 (86% Pass)

***NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016***

Test Field: 001 Essential Academic Skills Subtest I: Reading	N	%
Total Number of Examinees in Each Reporting Group	3,615	100
Gender		
Male	979	27
Female	2,593	72
No response	43	1
Ethnicity		
Black	47	1
Native American	46	1
Asian/PI	132	4
Hispanic	263	7
White	2,701	75
Multi- racial	208	6
Other	49	1
Undeclared	169	5
Is English Your Best Language?		
Yes	3,546	98
No	69	2

Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016
NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016
Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016

001 Essential Academic Skills Subtest I: Reading

Raw Score on Multiple-Choice Section	Scaled Score	Reporting Group									
		Male	Female	Black	NatAmer	Asian/PI	Hispanic	White	Multi-racial	English	Other language
		% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass
28	249	78%	67%	28%	72%	55%	41%	73%	76%	71%	26%
25	227	90%	84%	55%	87%	73%	60%	88%	90%	86%	42%
22*	205	96%	93%	70%	91%	83%	76%	96%	98%	94%	54%
19	184	98%	97%	87%	91%	93%	91%	98%	99%	98%	77%
16	162	100%	99%	96%	93%	98%	96%	100%	99%	99%	90%

MC/CR Combination: 100/0

Number of Scorable Multiple-Choice Items: 35

Number of Possible Holistic Score Points in CR Component: Not applicable

Number of Examinees: 3615

***PRC=Panel-Recommended Cut**

National Benchmark Cut-Score = 24 (86% Pass)



002 Essential Academic Skills Subtest II: Writing
Minnesota Standard Setting Impact: Detailed Results

***NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016
Panel Recommended Cut-Scores with -2 to +2 SEM Adjustments
Tests Administered: September 1, 2010 - February 28, 2016***

002 Essential Academic Skills Subtest II: Writing

			Raw Score on Multiple-Choice Section									
			+2 SEM		+1 SEM		PRC		-1 SEM		-2 SEM	
			24		22		19		16		14	
			SS	% Pass	SS	% Pass	SS	% Pass	SS	% Pass	SS	% Pass
Constructed-Response Section Holistic Score	+2 SEM	8	264	19%	252	33%	234	59%	216	79%	204	89%
	+1 SEM	7	254	33%	242	50%	224	73%	206	88%	194	93%
	PRC	6	244	49%	232	65%	214	83%	196	92%	184	96%
	-1 SEM	5	234	59%	222	73%	204	89%	186	95%	174	98%
	-2 SEM	4	224	73%	212	84%	194	93%	176	97%	164	99%

PRC=Panel Recommended Cut

SS=Scaled Score

SEM=Standard Error of Measurement

MC/CR Combination: 75/25

Number of Scorable Multiple-Choice Items: 30

Number of Possible Holistic Score Points in Constructed Response Component: 8

Number of Examinees: 3317

National Benchmark: MC Cut-Score = 20 CR Cut-Score = 6 (76% Pass)

***NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016***

***Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016***

Test Field: 002 Essential Academic Skills Subtest II: Writing	N	%
Total Number of Examinees in Each Reporting Group	3,317	100
Gender		
Male	906	27
Female	2,376	72
No response	35	1
Ethnicity		
Black	34	1
Native American	33	1
Asian/PI	130	4
Hispanic	167	5
White	2,581	78
Multi- racial	187	6
Other	37	1
Undeclared	148	4
Is English Your Best Language?		
Yes	3,253	98
No	64	2

*NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016*

*Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016*

002 Essential Academic Skills Subtest II: Writing, Constructed-Response Section Holistic Score, 8

Raw Score on Multiple-Choice Section	Scaled Score	Reporting Group									
		Male	Female	Black	NatAmer	Asian/PI	Hispanic	White	Multi-racial	English	Other language
		% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass
24	264	18%	19%	9%	12%	12%	7%	20%	26%	19%	3%
22	252	32%	34%	9%	21%	19%	14%	34%	43%	34%	3%
19*	234	58%	59%	24%	52%	42%	32%	62%	64%	60%	11%
16	216	79%	79%	41%	73%	62%	51%	82%	86%	80%	33%
14	204	89%	89%	56%	82%	76%	66%	91%	94%	89%	44%

MC/CR Combination: 75/25

Number of Scorable Multiple-Choice Items: 30

Number of Possible Holistic Score Points in CR Component: 8

Number of Examinees: 3317

**PRC=Panel-Recommended Cut*

National Benchmark: MC Cut-Score = 20 CR Cut-Score = 6 (76% Pass)

*NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016*

*Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016*

002 Essential Academic Skills Subtest II: Writing, Constructed-Response Section Holistic Score, 7

Raw Score on Multiple-Choice Section	Scaled Score	Reporting Group									
		Male	Female	Black	NatAmer	Asian/PI	Hispanic	White	Multi-racial	English	Other language
		% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass
24	254	32%	33%	9%	21%	18%	14%	34%	41%	33%	3%
22	242	49%	50%	18%	39%	36%	28%	52%	58%	51%	8%
19*	224	73%	73%	38%	67%	56%	45%	76%	79%	74%	22%
16	206	88%	88%	56%	82%	75%	66%	91%	94%	89%	44%
14	194	94%	93%	62%	91%	84%	78%	95%	97%	94%	58%

MC/CR Combination: 75/25

Number of Scorable Multiple-Choice Items: 30

Number of Possible Holistic Score Points in CR Component: 8

Number of Examinees: 3317

**PRC=Panel-Recommended Cut*

National Benchmark: MC Cut-Score = 20 CR Cut-Score = 6 (76% Pass)

*NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016*

*Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016*

002 Essential Academic Skills Subtest II: Writing, Constructed-Response Section Holistic Score, 6*

Raw Score on Multiple-Choice Section	Scaled Score	Reporting Group									
		Male	Female	Black	NatAmer	Asian/PI	Hispanic	White	Multi-racial	English	Other language
		% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass
24	244	48%	49%	18%	36%	35%	27%	51%	57%	50%	6%
22	232	64%	65%	29%	58%	48%	35%	68%	71%	66%	14%
19*	214	82%	83%	44%	73%	65%	56%	85%	89%	83%	34%
16	196	93%	92%	59%	88%	79%	76%	94%	96%	93%	50%
14	184	96%	96%	68%	97%	88%	83%	97%	97%	96%	67%

MC/CR Combination: 75/25

Number of Scorable Multiple-Choice Items: 30

Number of Possible Holistic Score Points in CR Component: 8

Number of Examinees: 3317

**PRC=Panel-Recommended Cut*

National Benchmark: MC Cut-Score = 20 CR Cut-Score = 6 (76% Pass)

**NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016**

**Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016**

002 Essential Academic Skills Subtest II: Writing, Constructed-Response Section Holistic Score, 5

Raw Score on Multiple-Choice Section	Scaled Score	Reporting Group									
		Male	Female	Black	NatAmer	Asian/PI	Hispanic	White	Multi-racial	English	Other language
		% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass
24	234	58%	59%	24%	52%	42%	32%	62%	64%	60%	11%
22	222	73%	73%	38%	67%	56%	45%	76%	80%	74%	22%
19*	204	89%	89%	56%	82%	76%	66%	91%	94%	89%	44%
16	186	95%	95%	68%	97%	88%	83%	97%	97%	96%	67%
14	174	98%	97%	79%	100%	92%	89%	99%	98%	98%	72%

MC/CR Combination: 75/25

Number of Scorable Multiple-Choice Items: 30

Number of Possible Holistic Score Points in CR Component: 8

Number of Examinees: 3317

***PRC=Panel-Recommended Cut**

National Benchmark: MC Cut-Score = 20 CR Cut-Score = 6 (76% Pass)

**NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016**

**Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016**

002 Essential Academic Skills Subtest II: Writing, Constructed-Response Section Holistic Score, 4

Raw Score on Multiple-Choice Section	Scaled Score	Reporting Group									
		Male	Female	Black	NatAmer	Asian/PI	Hispanic	White	Multi-racial	English	Other language
		% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass
24	224	73%	73%	38%	67%	56%	45%	76%	79%	74%	22%
22	212	85%	84%	44%	76%	66%	59%	87%	91%	85%	36%
19*	194	94%	93%	62%	91%	84%	78%	95%	97%	94%	58%
16	176	98%	97%	76%	100%	92%	89%	99%	98%	98%	72%
14	164	99%	99%	85%	100%	94%	95%	99%	99%	99%	81%

MC/CR Combination: 75/25

Number of Scorable Multiple-Choice Items: 30

Number of Possible Holistic Score Points in CR Component: 8

Number of Examinees: 3317

**PRC=Panel-Recommended Cut*

National Benchmark: MC Cut-Score = 20 CR Cut-Score = 6 (76% Pass)



003 Essential Academic Skills Subtest III: Mathematics
Minnesota Standard Setting Impact: Detailed Results

***NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016***

***Panel Recommended Cut-Scores with -2 to +2 SEM Adjustments
Tests Administered: September 1, 2010 - February 28, 2016***

	Raw Score on Multiple-Choice Section									
	+2 SEM		+1 SEM		PRC		-1 SEM		-2 SEM	
	28		26		23		20		17	
	SS	% Pass	SS	% Pass	SS	% Pass	SS	% Pass	SS	% Pass
003 Essential Academic Skills Subtest III: Mathematics	247	57%	233	68%	213	82%	193	91%	173	96%

PRC=Panel Recommended Cut

SS=Scaled Score

SEM=Standard Error of Measurement

MC/CR Combination: 100/0

Number of Scorable Multiple-Choice Items: 36

Number of Possible Holistic Score Points in CR Component: Not applicable

Number of Examinees: 4782

National Benchmark Cut-Score = 24 (80% Pass)

***NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016***

***Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016***

Test Field: 003 Essential Academic Skills Subtest III: Mathematics	N	%
Total Number of Examinees in Each Reporting Group	4,782	100
Gender		
Male	1,344	28
Female	3,387	71
No response	51	1
Ethnicity		
Black	58	1
NatAmer	75	2
Asian/PI	174	4
Hispanic	530	11
White	3,463	72
Multi- racial	224	5
Other	58	1
Undeclared	200	4
Is English Your Best Language?		
Yes	4,691	98
No	91	2

*NES-Minnesota Standard Setting Impact
Standard Setting - April 5-6, 2016*

*Group Performance Summary Report
Tests Administered: September 1, 2010 - February 28, 2016*

003 Essential Academic Skills Subtest III: Mathematics

Raw Score on Multiple-Choice Section	Scaled Score	Reporting Group									
		Male	Female	Black	NatAmer	Asian/PI	Hispanic	White	Multi-racial	English	Other language
		% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass	% Pass
28	247	68%	52%	22%	44%	64%	31%	60%	65%	57%	43%
26	233	78%	64%	36%	56%	76%	42%	72%	77%	69%	47%
23*	213	88%	80%	57%	61%	84%	60%	86%	88%	82%	64%
20	193	94%	89%	64%	72%	89%	74%	94%	94%	91%	73%
17	173	97%	95%	79%	81%	95%	88%	98%	98%	96%	84%

MC/CR Combination: 100/0

Number of Scorable Multiple-Choice Items: 36

Number of Possible Holistic Score Points in CR Component: Not applicable

Number of Examinees: 4782

**PRC=Panel-Recommended Cut*

National Benchmark Cut-Score = 24 (80% Pass)

Appendix A

Minnesota NES EAS Standard Setting Panelists: April 5 – 6, 2016

	First Name	Last Name	Organization	Ethnicity
1	Joyce	Baumann	Cold Spring Elementary, Board of Teaching Member	White (Not Hispanic or Latino)
2	Janey	Blanchard	Cass Lake -Bena/115	
3	Rhonda	Bonnstetter	Southwest Minnesota State University	White (Not Hispanic or Latino)
4	Shu-Hui (Linda)	Chang	Mounds View High School	Asian (Not Hispanic or Latino)
5	Seehwa	Cho	University of St. Thomas	Asian (Not Hispanic or Latino)
6	Mary Frances	Clardy	N/A Board Of Teaching	
7	Sheralee	Fossen	Wrenhsall Elementary School/Wrenshall ISD100	White (Not Hispanic or Latino)
8	Brandi	Hansmeyer	Kenwood Trail Middle School/194-Lakeville	White (Not Hispanic or Latino)
9	Trish	Harvey	Hamline University	White (Not Hispanic or Latino)
10	Alexis	Meskill	Climax-Shelly School	White (Not Hispanic or Latino)
11	Michelle	Modrow	Rosa Parks Elementary	White (Not Hispanic or Latino)
12	Shoua	Moua	Humboldt Secondary	Asian (Not Hispanic or Latino)
13	Jason	Olson	Park Center IB World School	White (Not Hispanic or Latino)
14	ANGELA	OSUJI	CLARA BARTON SCHOOL	Black or African American (Not Hispanic or Latino)
15	Melanie	Reap	Winona State University	
16	Michelle	Rinke Koch	Menahga Elementary School	I prefer not to provide this information
17	David	Tollefson	Floodwood Public School	White (Not Hispanic or Latino)
18	Larry	Tuura	Wayzata High School/Wayzata Public Schools, ISD 284	White (Not Hispanic or Latino)
19	Lisa	Williams	Robbinsdale Cooper High School	Black or African American (Not Hispanic or Latino)

Appendix B

Minnesota NES EAS Standard Setting April 5 – 6, 2016: Evaluation Results

Respondent	How well do you feel you understood the training that you received for making your judgments?	How confident are you of the judgments you made?	How satisfied are you that you were able to complete the work you were asked to do in the time that was provided?	How successful were the coordination and the logistics of the meeting?	Overall, how satisfied are you with the process in which you participated?	How well do you feel you understood how the National Benchmark was applied to the judgments you made for the State of Minnesota?
1	4	4	4	4	2	3
2	5	5	5	5	5	5
3	5	5	5	5	5	5
4	5	3	4	4	3	4
5	4	4	4	4	4	3
6	5	4	5	4	5	5
7	4	4	4	4	4	3
8	4	4	4	5	4	4
9	4	4	4	4	4	4
10	5	4	5	5	5	4
11	5	5	5	4	5	5
12	5	4	5	5	5	4
13	5	4	5	5	5	5
14	4	4	5	5	5	4
15	4	4	4	5	4	4
16	5	4	4	4	5	4
17	4	4	4	4	4	4
18	5	4	5	5	4	4
19	5	5	5	5	5	5

Additional Comments:

- 2 I have been on Item Validation, Standard Setting and now State Committee and I am impressed with the process.
- 3 Great process -- conversations valuable. Documents/process well-designed
- 7 I would like data specific to MN and broken down even further by age, gender, ethnicity, etc. That would help tremendously in forming my judgments.
- 8 Anna & Phil -- thank you for clear guidance and directions!
- 10 Things kept moving well. Appreciate that!
- 11 Pearson representatives did a good job of facilitating discussion and answering questions!
- 13 Thank you for the opportunity!
- 15 Thank you. This was a very interesting and enjoyable experience.
- 16 The scope and sequence today was more satisfying. There was more opportunity for conversation than just completing the assessment and rating. Overall, well done.
- 18 It would be "satisfying" to know our cut number as a group.
- 19 Thank you for giving me another great opportunity to "learn"; thank you for the taxi reimbursement! Thank you for all of the food and everything.

