

Correlations between Pro-Core and Ohio's State Assessments Math 8

The score on any test depends upon many variables: preparation, student buy-in, specific content assessed, or how a student is feeling that day. **Comparing Pro-Core Form C Math 8 scores to state scores gives a correlation coefficient of 0.83, which is considered very strong***. Correlations between Pro-Core's Form A tests and the state tests are lower, because there is an entire year of study between them.

The following charts show the percentage of students who scored at Limited, Basic, Proficient, Accelerated and Advanced for specific scores on the Pro-Core Form A, B, and C tests. Categories which contain 25% or more students are in **bold, red font**. Most likely score ranges for each performance category are **highlighted in blue**. Students with **Pro-Core Scores highlighted in red** have passed the state test at rates of 50% or less. Students with **Pro-Core Scores highlighted in yellow** have passed the state test at rates of 51% to 79%. Students with **Pro-Core Scores highlighted in green** have passed the state test at rates of 80% or more.

Very few Math 8 state scores were reported by schools, making this data less reliable to use for predicting students' state scores.

Form C Assessment

Pro-Core Score Range**	Percent of Students by State Performance Category					
	Limited	Basic	Proficient	Accelerated	Advanced****	Passing***
0 - 29%	89%	0%	11%	0%	0%	11%
30 - 39%	33%	22%	45%	0%	0%	45%
40 - 49%	0%	33%	66%	0%	0%	66%
50 - 100%	0%	0%	50%	40%	10%	100%

Form B Assessment

Pro-Core Score Range**	Percent of Students by State Performance Category					
	Limited	Basic	Proficient	Accelerated	Advanced****	Passing***
0 - 29%	58%	11%	26%	5%	0%	31%
30 - 39%	29%	29%	43%	0%	0%	43%
40 - 49%	0%	0%	75%	17%	8%	100%
50 - 100%	0%	0%	0%	100%	0%	100%

Form A Assessment

Pro-Core Score Range**	Percent of Students by State Performance Category					
	Limited	Basic	Proficient	Accelerated	Advanced****	Passing**
0 - 9%	58%	16%	25%	0%	0%	25%
10 - 19%	38%	15%	38%	8%	0%	46%
20 - 29%	18%	0%	55%	18%	9%	82%
30 - 100%	0%	25%	25%	50%	0%	75%

*From <https://benbaab.com/salkind/correlations.html>

r value	Strength
0-.2	very weak
.2-.4	weak
.4-.6	moderate
.6-.8	strong
.8-1	very strong

**Ranges were determined, in part, by sample size (5% or 10 scores, whichever was higher).

***Percentages may not add up due to rounding.

****Only 7% of students across the state were classified as “Advanced” on the Math 8 Test. This contributes to the low numbers in this category.

Only about 20% of schools report their state scores to Pro-Core. Without their cooperation and participation, this report would not be possible. The predictions will become more accurate with increased reporting. If you find value in this report, please consider submitting your state scores to Pro-Core when they become available.

Here are some interesting statistics about Ohio’s Math 8 Test from the *Statistical Summaries*, which can be found at <http://education.ohio.gov/Topics/Testing/Statistical-Summaries-and-Item-Analysis-Reports>.

Average Scaled Score:	703.24		
Average Raw Score:	25.50 of 52 = 49.0%		
Percent of Students at:			
Limited:	29%	Scaled Score Range:	633 - 689
Basic:	14%	Scaled Score Range:	690 - 699
Proficient:	36%	Scaled Score Range:	700 - 724
Accelerated:	13%	Scaled Score Range:	725 - 743
Advanced:	7%	Scaled Score Range:	744 - 774
Passing***:	57%	Scaled Score Range:	700 - 774