

Chapter 8. State Indicators

8-6F Eighth Grade Mathematics Proficiency, Male Students

Description

This indicator represents the proportion of a state's eighth grade students in public schools that met or exceeded the proficiency standard in mathematics. The National Assessment Governing Board sets performance standards that provide a context for interpreting National Assessment of Educational Progress (NAEP) results. The standards define "proficiency," as well as "advanced" and "basic" accomplishment. For the eighth grade, the basic level (scores 262–298) denotes partial mastery of knowledge and skills that are prerequisite for proficient work. The proficient level (299–332) represents solid academic performance and demonstrates competency over challenging subject-matter knowledge. The advanced level (333–500) signifies superior performance.

The National Center for Education Statistics has determined that achievement levels are to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for understanding trends in student achievement.

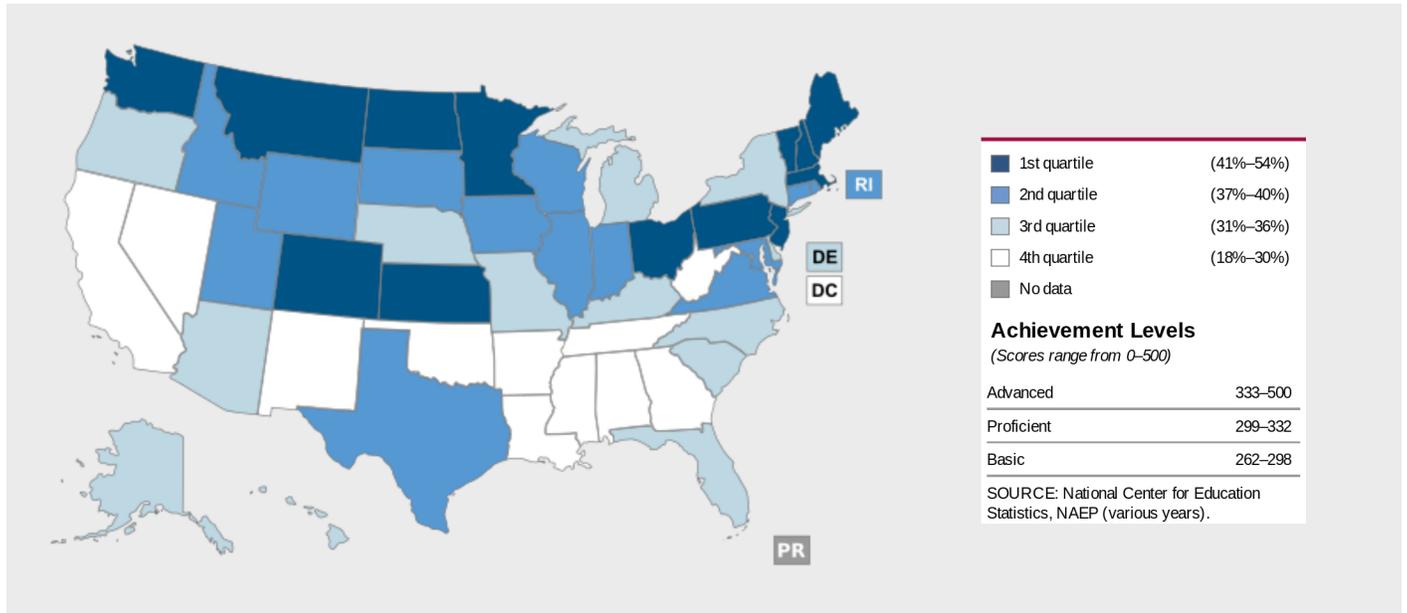
Approximately 164,600 eighth grade students in 6,200 schools participated in the 2013 NAEP mathematics assessment. Students with disabilities or limited English-language proficiency are allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered. Demographic percentages of test takers by state are included in this indicator's standard error table. For national data across all demographic groups, see indicator 8-6.

Findings

- In 2013, 35% of male eighth grade students nationwide performed at or above the proficient level in mathematics, an increase from 29% in 2003. In comparison, in 2013, 34% of eighth grade students nationwide performed at or above the proficient level, which was not significantly different than the male eighth graders.
- Proficiency varied significantly across states, ranging from 20% to 54%.
- None of the statewide averages were lower in 2013 than in 2003. A majority of statewide averages were higher in 2013 than in 2003, except for 14 statewide average scores, which were virtually the same in 2013 as in 2003.

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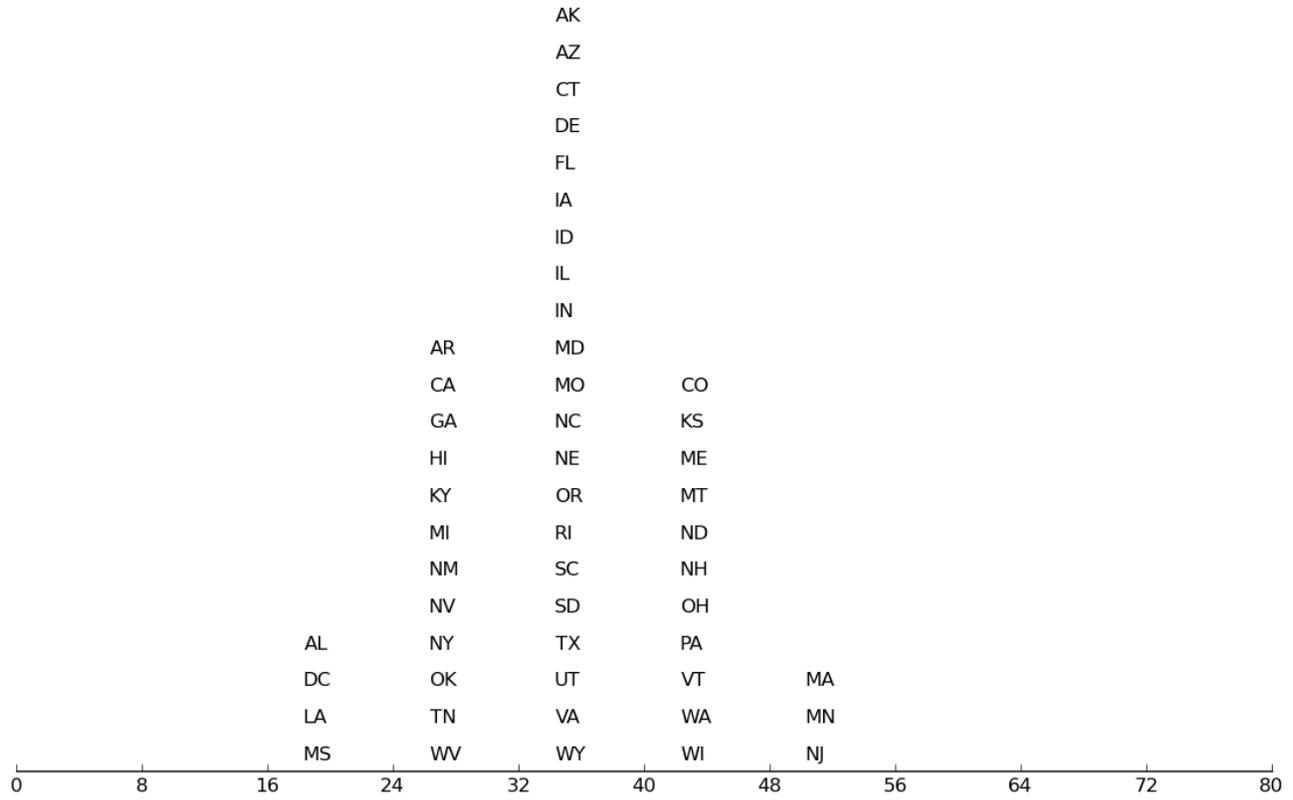
Year: 2013



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Distribution of states across indicator values



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Table 8-6F Eighth Grade Mathematics Proficiency, Male Students

State	8th grade math proficiency, male students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
United States	26	29	30	33	34	34	35
Alabama	17	18	15	21	21	21	21
Alaska	NA	32	30	33	34	36	34
Arizona	22	21	26	30	31	34	32
Arkansas	14	19	22	26	27	31	29
California	17	23	23	25	26	26	29
Colorado	NA	35	33	38	41	44	42
Connecticut	36	37	35	35	39	39	37
Delaware	NA	27	32	34	32	31	34
District of Columbia	6	7	7	8	12	17	18
Florida	NA	26	28	29	31	29	32
Georgia	19	24	24	26	27	29	30
Hawaii	16	17	19	20	24	30	31
Idaho	27	30	30	36	39	37	38
Illinois	24	31	30	33	35	33	37
Indiana	33	33	32	37	39	34	39
Iowa	NA	35	34	37	35	34	37
Kansas	35	34	35	41	43	41	42
Kentucky	22	25	24	30	30	32	31
Louisiana	12	19	16	20	21	22	20
Maine	32	31	31	37	38	38	41
Maryland	27	33	31	38	42	42	37
Massachusetts	31	42	43	53	53	52	54
Michigan	29	30	31	30	32	33	31
Minnesota	39	43	45	44	49	47	48

8th grade math proficiency, male students (Percent)							
State	2000	2003	2005	2007	2009	2011	2013
Mississippi	10	14	15	16	15	18	22
Missouri	23	30	28	32	37	33	33
Montana	37	36	36	39	45	46	41
Nebraska	33	35	37	37	37	35	35
Nevada	20	21	23	24	26	29	29
New Hampshire	NA	36	36	38	45	44	46
New Jersey	NA	34	39	43	47	48	48
New Mexico	13	16	15	19	21	24	24
New York	27	33	31	31	36	30	31
North Carolina	28	32	32	36	37	37	36
North Dakota	31	37	36	43	45	45	41
Ohio	32	32	34	38	38	40	42
Oklahoma	20	22	22	24	26	29	25
Oregon	34	33	35	37	40	35	36
Pennsylvania	NA	33	33	42	42	40	43
Rhode Island	21	26	24	29	29	35	37
South Carolina	17	29	31	33	31	31	32
South Dakota	NA	35	36	41	44	42	39
Tennessee	19	22	21	26	26	26	28
Texas	23	27	33	37	38	41	39
Utah	26	33	32	34	37	37	38
Vermont	31	35	38	43	45	46	46
Virginia	28	33	35	40	38	40	38
Washington	NA	33	37	37	41	41	42
West Virginia	17	21	18	21	21	22	25
Wisconsin	NA	36	36	40	41	43	40
Wyoming	24	34	31	37	38	41	39
Puerto Rico	NA						

8th grade math proficiency, male students (Percent)

State	2000	2003	2005	2007	2009	2011	2013
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NA = not available.

NOTES: The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports.

SOURCE: National Center for Education Statistics, NAEP (various years).

Science and Engineering Indicators 2016