

## Chapter 8. State Indicators

### 8-6A Eighth Grade Mathematics Proficiency, White Students

#### Description

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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, of whom 87,000 were white, 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.

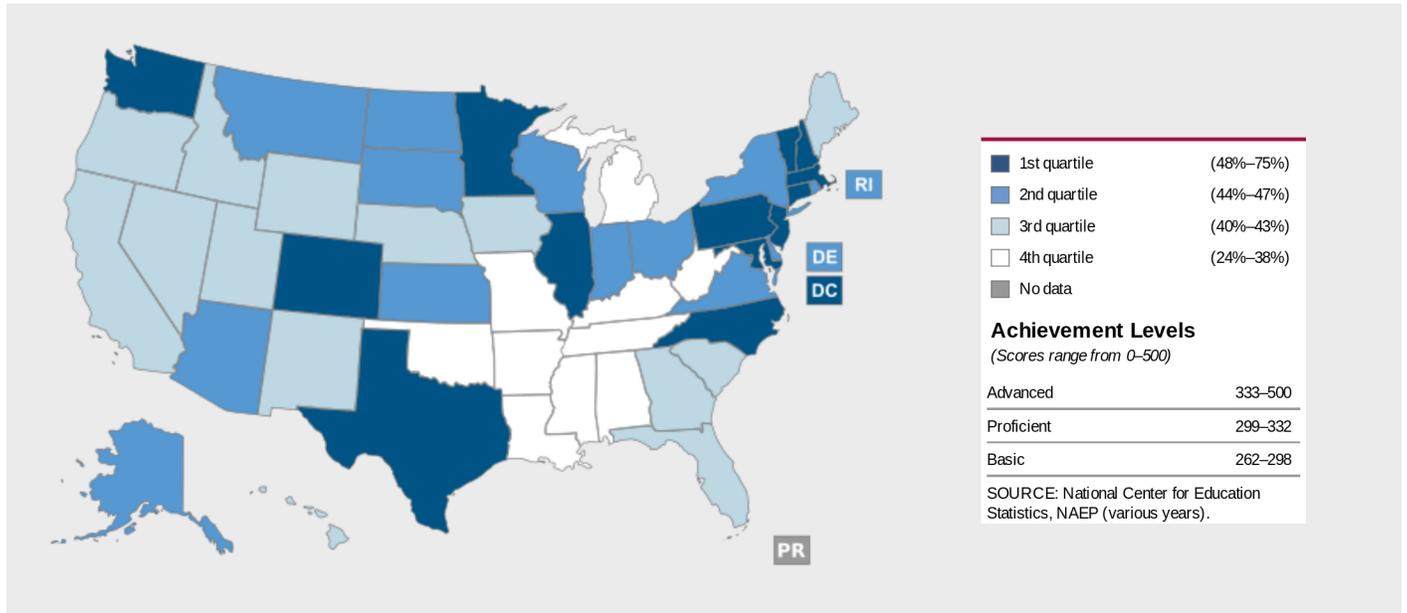
#### Findings

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- Percentages of white test takers in 2013 varied on a state level from 13% to 92%. Nationally, in 2013, 53% of eighth grade mathematics test takers were white students compared with 62% in 2003.
- In 2013, 44% of white eighth grade students nationwide performed at or above the proficient level in mathematics, an increase from 36% in 2003. In 2013, 34% of eighth grade students nationwide performed at or above the proficient level.
- Proficiency varied significantly across states, ranging from 24% to 63%.
- None of the statewide averages were lower in 2013 than in 2003. Almost all statewide averages were higher in 2013 than in 2003, except for the statewide average scores for Alabama, Connecticut, Louisiana, Michigan, New York, North Carolina, and South Carolina, which were virtually the same in 2013 as in 2003.

## 8-6A Eighth Grade Mathematics Proficiency, White Students

Year: 2013

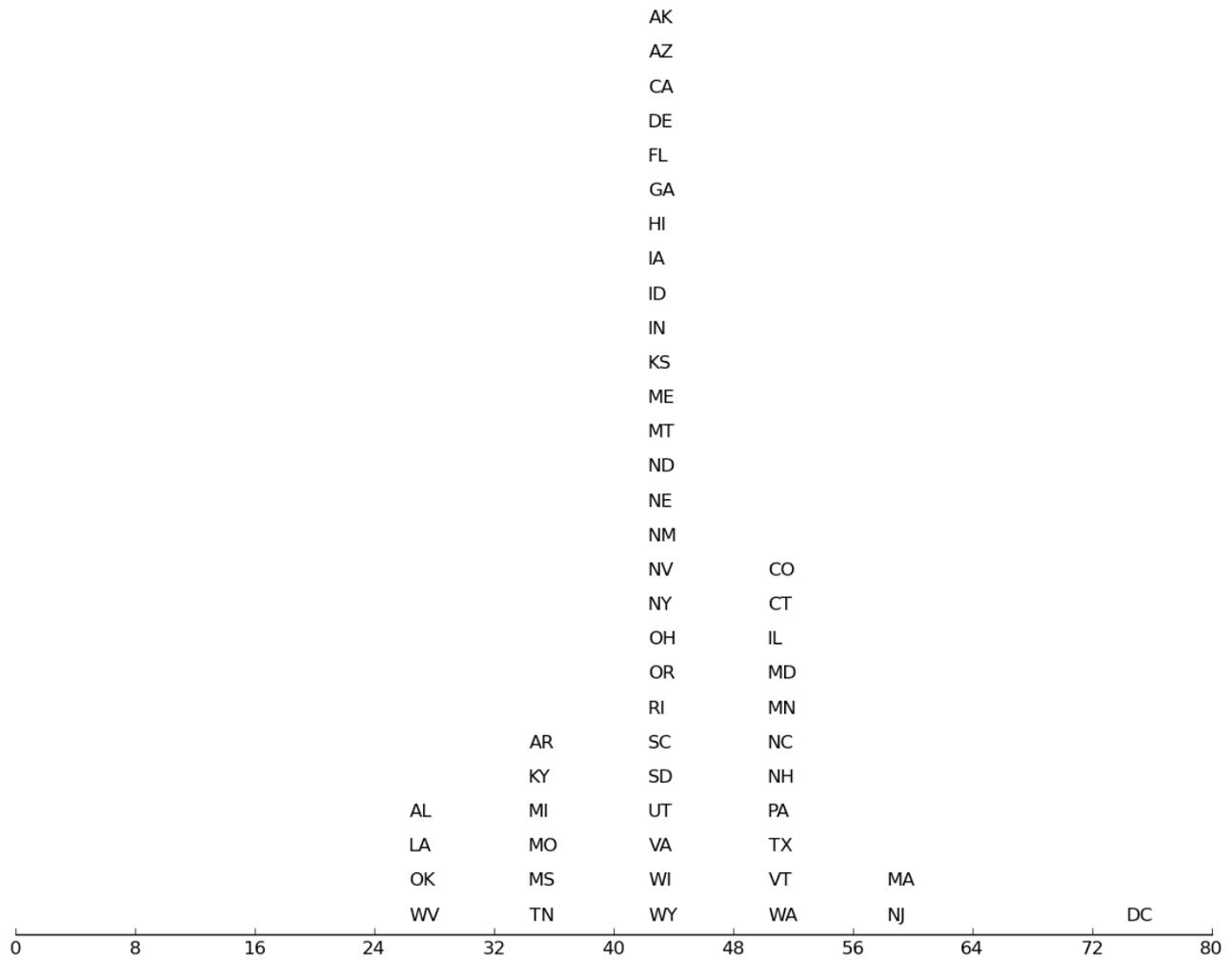


## 8-6A Eighth Grade Mathematics Proficiency, White Students

Year: 2013

Distribution of states across indicator values

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## Chapter 8. State Indicators

**Table 8-6A** Eighth Grade Mathematics Proficiency, White Students

State	8th grade math proficiency, white students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
United States	33	36	37	41	43	43	44
Alabama	23	23	22	27	29	28	28
Alaska	NA	41	38	44	44	47	46
Arizona	28	32	38	40	42	46	45
Arkansas	18	24	28	31	34	37	34
California	26	34	34	39	39	41	42
Colorado	NA	43	43	48	51	55	53
Connecticut	42	44	46	44	49	48	48
Delaware	NA	35	40	43	43	43	45
District of Columbia	56	S	69	S	S	76	75
Florida	NA	34	36	37	39	37	40
Georgia	27	32	34	37	39	40	42
Hawaii	22	25	25	28	31	41	41
Idaho	28	31	33	38	43	41	41
Illinois	35	40	39	41	44	44	48
Indiana	32	35	34	40	41	40	44
Iowa	NA	35	36	38	37	37	40
Kansas	36	39	39	46	45	47	47
Kentucky	22	25	24	29	29	33	33
Louisiana	18	28	25	28	29	31	31
Maine	31	30	30	35	36	40	40
Maryland	38	40	43	53	56	56	51
Massachusetts	34	44	49	58	59	58	63
Michigan	34	35	36	35	37	35	36
Minnesota	41	49	49	48	53	55	54

8th grade math proficiency, white students (Percent)							
State	2000	2003	2005	2007	2009	2011	2013
Mississippi	14	22	24	24	25	30	33
Missouri	25	32	32	36	39	36	38
Montana	39	37	39	41	47	49	44
Nebraska	33	36	40	41	41	39	42
Nevada	24	27	29	32	36	43	40
New Hampshire	NA	35	35	39	44	45	48
New Jersey	NA	42	47	51	54	59	58
New Mexico	23	31	26	33	39	40	40
New York	33	44	41	39	44	40	44
North Carolina	37	44	42	46	49	48	48
North Dakota	33	39	37	44	46	47	44
Ohio	34	35	38	42	41	46	45
Oklahoma	22	25	26	25	29	34	29
Oregon	34	35	38	39	41	37	40
Pennsylvania	NA	35	36	44	45	47	49
Rhode Island	26	29	30	35	35	42	45
South Carolina	27	39	44	44	43	43	43
South Dakota	NA	37	40	43	46	47	45
Tennessee	20	26	26	30	30	28	33
Texas	35	38	46	53	54	58	53
Utah	27	34	33	36	40	41	42
Vermont	31	35	39	42	44	47	48
Virginia	32	40	43	47	44	48	47
Washington	NA	36	39	42	46	46	48
West Virginia	18	20	18	19	20	22	24
Wisconsin	NA	40	42	42	45	47	47
Wyoming	25	35	32	39	38	41	40
Puerto Rico	NA						

8th grade math proficiency, white students (Percent)

State	2000	2003	2005	2007	2009	2011	2013
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NA = not available; S = data are suppressed because reporting standards were not met.

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

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.

*Science and Engineering Indicators 2016*