

## Chapter 8. State Indicators

### 8-6E Eighth Grade Mathematics Proficiency, Female 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 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.

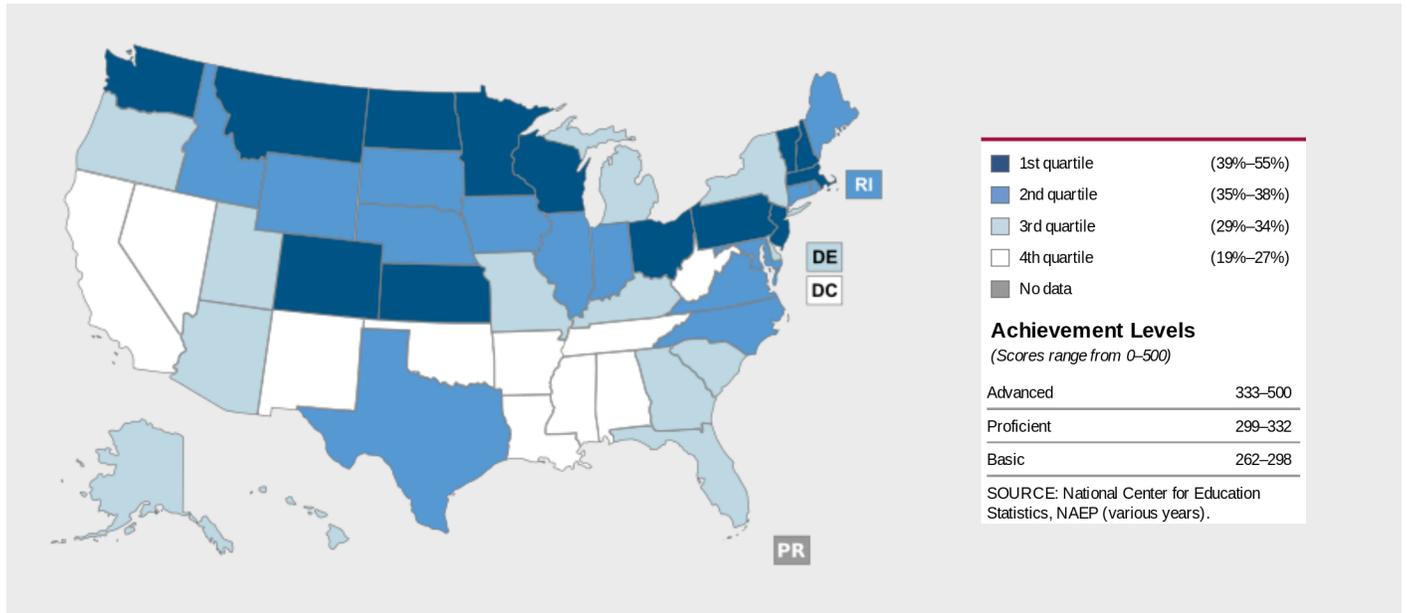
#### Findings

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- In 2013, 34% of female eighth grade students nationwide performed at or above the proficient level in mathematics, an increase from 26% in 2003. For comparison, this was the same as the national average value for all students.
- Proficiency varied significantly across states, ranging from 19% to 55%.
- 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 Connecticut, Iowa, Michigan, Minnesota, New York, Oregon, and South Dakota, which were virtually the same in 2013 as in 2003.

## 8-6E Eighth Grade Mathematics Proficiency, Female Students

Year: 2013

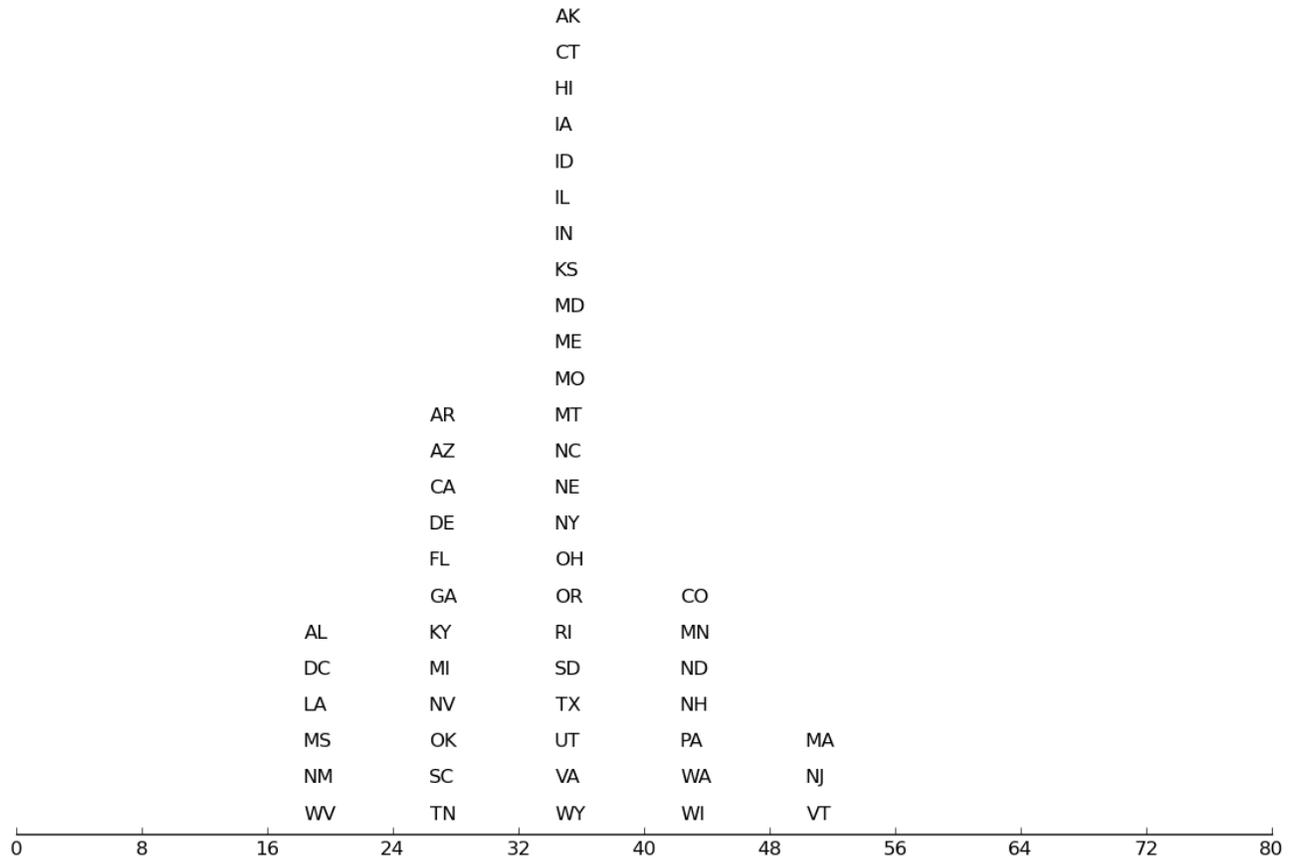


## 8-6E Eighth Grade Mathematics Proficiency, Female Students

Year: 2013

Distribution of states across indicator values

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## Chapter 8. State Indicators


**Table 8-6E** Eighth Grade Mathematics Proficiency, Female Students

State	8th grade math proficiency, female students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
United States	23	26	27	29	31	33	34
Alabama	15	14	15	15	20	19	19
Alaska	NA	28	27	32	33	35	33
Arizona	18	21	25	23	27	29	29
Arkansas	13	18	22	22	27	28	27
California	16	21	20	23	21	25	26
Colorado	NA	34	31	37	38	43	41
Connecticut	30	33	34	34	41	37	37
Delaware	NA	25	27	29	31	33	31
District of Columbia	5	5	6	8	11	17	20
Florida	NA	21	23	26	27	27	30
Georgia	18	20	23	23	27	27	29
Hawaii	16	16	18	22	27	30	34
Idaho	25	27	30	32	37	36	35
Illinois	28	28	27	29	31	32	36
Indiana	26	29	28	33	34	34	38
Iowa	NA	31	33	33	33	33	35
Kansas	32	34	33	39	36	40	39
Kentucky	18	23	21	24	25	29	29
Louisiana	10	15	16	18	20	22	21
Maine	29	28	29	32	32	39	37
Maryland	27	27	28	35	38	38	38
Massachusetts	29	35	43	48	50	51	55
Michigan	28	26	27	27	29	29	30
Minnesota	38	44	41	43	45	48	46

State	8th grade math proficiency, female students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
Mississippi	7	11	12	12	15	20	20
Missouri	19	26	24	28	34	30	32
Montana	36	34	36	36	42	45	39
Nebraska	27	30	33	32	32	31	36
Nevada	17	19	20	22	24	28	27
New Hampshire	NA	33	33	38	42	44	47
New Jersey	NA	33	33	38	42	46	50
New Mexico	12	15	13	16	19	24	22
New York	22	31	30	29	32	30	33
North Carolina	26	32	32	33	34	37	36
North Dakota	30	36	33	39	42	40	40
Ohio	29	29	32	33	34	37	39
Oklahoma	17	18	19	18	21	26	25
Oregon	28	30	32	33	33	30	32
Pennsylvania	NA	27	29	35	37	38	41
Rhode Island	22	22	23	27	26	33	35
South Carolina	17	23	29	31	29	32	29
South Dakota	NA	34	37	37	39	41	38
Tennessee	14	20	20	20	25	22	27
Texas	25	23	28	32	35	39	37
Utah	23	29	27	30	33	33	34
Vermont	30	35	38	40	42	46	48
Virginia	22	30	32	34	33	40	38
Washington	NA	31	35	35	38	40	41
West Virginia	17	18	18	16	18	21	22
Wisconsin	NA	34	36	34	38	39	40
Wyoming	23	30	27	34	31	34	36
Puerto Rico	NA	NA	NA	NA	NA	NA	NA

8th grade math proficiency, female 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*