

Chapter 8. State Indicators

8-6D Eighth Grade Mathematics Proficiency, Asian and Pacific Islander 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.

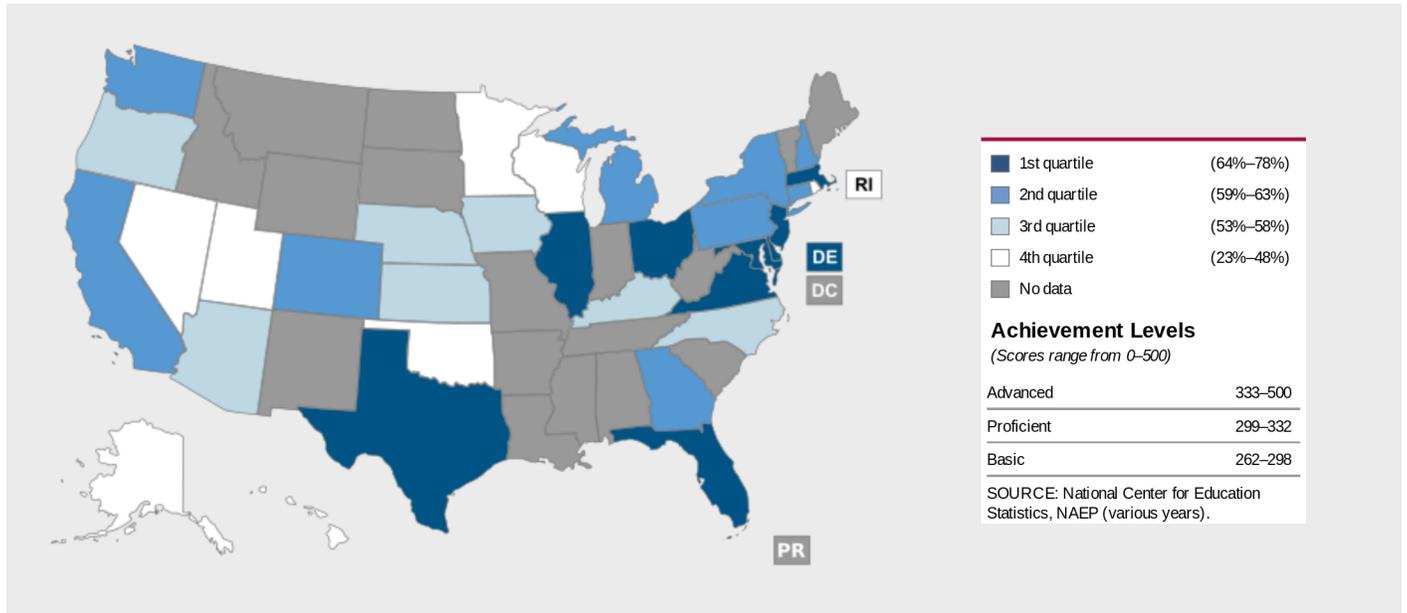
The National Center for Education Statistics has determined that achievement levels are to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for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

Approximately 164,600 eighth grade students, of whom 8,000 were Asian and Pacific Islander, 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

- Percentages of Asian and Pacific Islander test takers in 2013 varied on a state level from 1% to 71%. Nationally, in 2013, 5% of eighth grade mathematics test takers were Asian and Pacific Islander students compared with 4% in 2003.
- In 2013, 60% of Asian and Pacific Islander eighth grade students nationwide performed at or above the proficient level in mathematics, an increase from 42% in 2003. In 2013, 34% of eighth grade students nationwide performed at or above the proficient level.
- Proficiency varied significantly across states, ranging from 23% to 78%.
- None of the reported statewide averages were lower in 2013 than in 2003. Almost all the rest of the reported statewide averages were higher in 2013 than in 2003, except for the statewide average scores for Alaska, Connecticut, Illinois, North Carolina, Oregon, and Utah, which were virtually the same in 2013 as in 2003.

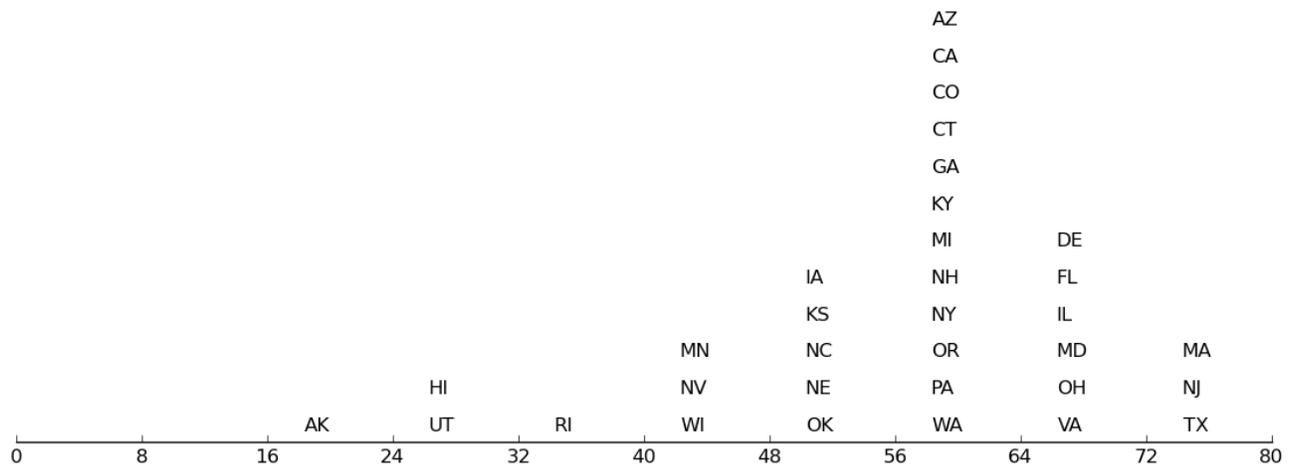
8-6D Eighth Grade Mathematics Proficiency, Asian and Pacific Islander Students
 Year: 2013



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Distribution of states across indicator values



Chapter 8. State Indicators


Table 8-6D Eighth Grade Mathematics Proficiency, Asian and Pacific Islander Students

State	8th grade math proficiency, Asian and Pacific Islander students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
United States	40	42	46	49	53	55	60
Alabama	S	S	S	S	S	S	S
Alaska	NA	29	19	33	31	32	23
Arizona	S	S	S	52	52	58	57
Arkansas	S	S	S	S	S	S	S
California	34	39	45	46	46	50	59
Colorado	NA	38	S	48	55	67	59
Connecticut	S	51	46	61	61	60	61
Delaware	NA	S	59	65	69	67	69
District of Columbia	S	S	S	S	S	S	S
Florida	NA	41	51	48	55	65	65
Georgia	S	40	52	S	49	52	62
Hawaii	15	15	17	20	25	29	31
Idaho	S	S	S	S	S	S	S
Illinois	S	58	50	55	60	67	69
Indiana	S	S	S	S	S	S	S
Iowa	NA	S	S	S	S	45	53
Kansas	S	34	S	52	S	53	55
Kentucky	S	S	S	S	S	S	58
Louisiana	S	S	S	S	S	S	S
Maine	S	S	S	S	S	S	S
Maryland	49	56	55	66	76	65	68
Massachusetts	44	57	68	74	66	72	78
Michigan	S	S	S	S	59	63	60
Minnesota	S	32	34	34	35	35	43

8th grade math proficiency, Asian and Pacific Islander students (Percent)

State	2000	2003	2005	2007	2009	2011	2013
Mississippi	S	S	S	S	S	S	S
Missouri	S	S	S	S	S	S	S
Montana	S	S	S	S	S	S	S
Nebraska	S	S	S	S	S	S	55
Nevada	25	31	30	36	33	41	45
New Hampshire	NA	S	S	S	62	60	63
New Jersey	NA	61	63	69	77	73	78
New Mexico	S	S	S	S	S	S	S
New York	37	41	50	53	63	55	59
North Carolina	S	48	53	50	65	71	54
North Dakota	S	S	S	S	S	S	S
Ohio	S	S	S	S	S	S	64
Oklahoma	S	S	S	S	38	60	48
Oregon	38	41	50	53	50	49	57
Pennsylvania	NA	S	49	66	60	62	61
Rhode Island	20	20	26	31	40	41	34
South Carolina	S	S	S	S	S	S	S
South Dakota	NA	S	S	S	S	S	S
Tennessee	S	S	S	S	S	S	S
Texas	44	58	61	67	67	69	74
Utah	20	25	26	32	27	35	31
Vermont	S	S	S	S	S	S	S
Virginia	44	48	53	53	55	65	64
Washington	NA	37	45	41	53	55	62
West Virginia	S	S	S	S	S	S	S
Wisconsin	NA	17	32	40	40	43	40
Wyoming	S	S	S	S	S	S	S
Puerto Rico	NA						

8th grade math proficiency, Asian and Pacific Islander 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. Asian and Pacific Islander includes Native Hawaiian.

Science and Engineering Indicators 2016