

Idaho and the Northwestern States

NAEP 2009 Mathematics, Grade 8

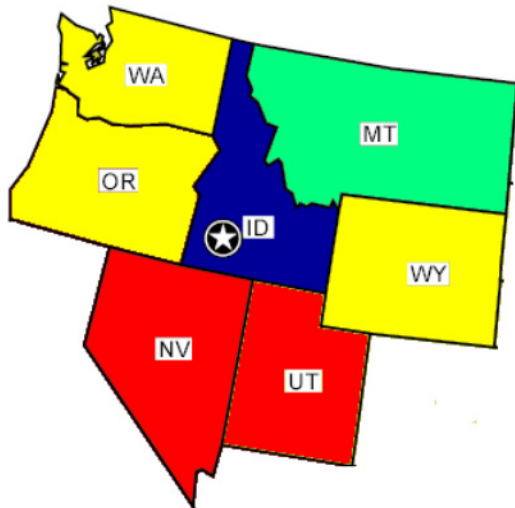
Idaho Snapshot 2009-02



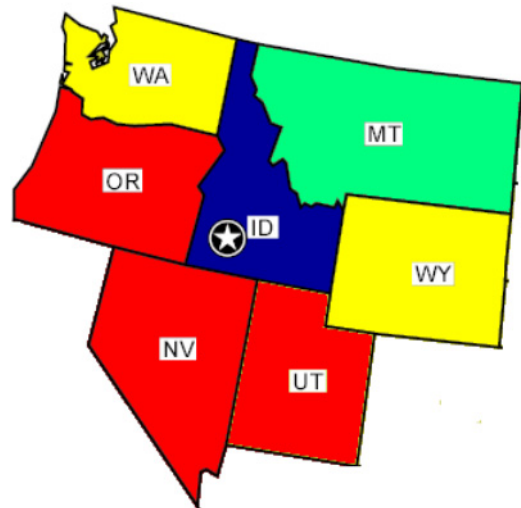
The Mathematics assessment of the National Assessment of Educational Progress (NAEP) used multiple-choice and constructed-response questions to examine student skills in number properties & operations, measurement, geometry, algebra & functions, and data analysis & probability. Mathematics scores range from 0 to 500, where 262 is *Basic* (meets grade 8 expectations), 299 is *Proficient*, and 333 is *Advanced*.

NAEP reports several different scores for each assessment including average scale scores and achievement level scores. While each of these scores report the identical level of student knowledge and skills, it must be recognized that the different scores often portray apparently different levels of student ability. This statistical phenomenon is illustrated here by using two different NAEP scores from the NAEP 2009 assessment to compare the mathematics achievement of Idaho eighth grade students with their peers in the other northwestern states.

NAEP Average Scale Score



NAEP At or Above Basic



Legend: Idaho (blue); Higher than Idaho (green); Lower than Idaho (red); and No statistical difference (yellow).

Idaho eighth graders had an **average scale score** (287) on the NAEP 2009 mathematics assessment that was:

- ▶ Higher than Nevada (284) and Utah (284);
- ▶ Lower than Montana (292); and
- ▶ Not statistically different from Washington (289), Oregon (285), and Wyoming (286).

The percentage of Idaho eighth graders scoring **At or Above NAEP Basic** (78) on the NAEP 2009 mathematics assessment was:

- ▶ Higher than Oregon (75), Nevada (63), and Utah (75);
- ▶ Lower than Montana (83); and
- ▶ Not statistically different from Washington (78) and Wyoming (78).

Note: Comparisons based on statistical tests (.05 level) using unrounded numbers that considered the magnitude of difference and standard errors. Source: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 Mathematics Assessment. Visit Idaho NAEP on the web at <http://www.sde.idaho.gov/site/naep/>