

Grade 4 Mathematics ISAT Proficiency Level Descriptors

Advanced

In the area of mathematics, fourth grade students typically performing at the Advanced level consistently demonstrate a **thorough understanding** of grade-level skills. These students

- demonstrate excellent understanding of place value, the numeration system, and money.
- perform challenging calculations.
- demonstrate a thorough understanding of measurement concepts and estimation.
- demonstrate advanced understanding of conversions and equivalencies of time and measurement in the U.S. Customary System.
- translate complex number sentences and expressions to show mathematical relationships.
- solve challenging grade-level equations involving factors.
- identify and extend challenging patterns.
- apply advanced geometric concepts related to shape and spatial relationships.
- demonstrate an excellent understanding of locating points in the first quadrant of a coordinate grid.
- demonstrate excellent understanding of reading and interpreting tables, charts, bar graphs, and line graphs.
- demonstrate in-depth understanding of simple probability.

Proficient

In the area of mathematics, fourth grade students typically performing at the Proficient level demonstrate a **general understanding** of grade-level skills. These students

- demonstrate an understanding of place value, the numeration system, and money.
- perform grade-level calculations.
- demonstrate an understanding of measurement concepts and estimation.
- demonstrate an understanding of common conversions and equivalencies of time and measurement in the U.S. Customary System.
- translate number sentences and expressions to show mathematical relationships.
- solve grade-level equations involving factors.
- identify and extend patterns.
- apply geometric concepts related to shape and spatial relationships.
- locate points in the first quadrant of a coordinate grid.
- read and interpret tables, charts, bar graphs, and line graphs.
- determine mode using simple sets of data.
- demonstrate fundamental understanding of simple probability.

Basic

In the area of mathematics, fourth grade students typically performing at the Basic level demonstrate a **limited understanding** of grade-level skills. These students

- demonstrate limited understanding of place value, the numeration system, and money.
- perform some basic calculations.
- demonstrate a narrow understanding of measurement concepts and estimation.
- demonstrate basic understanding of common conversions and equivalencies of time and measurement in the U.S. Customary System.
- translate simple number sentences and expressions.
- solve basic equations involving factors.
- extend simple patterns.
- apply some geometric concepts.
- demonstrate limited understanding of locating points in the first quadrant of a coordinate grid.
- read basic displays of data.
- demonstrate limited understanding of mode.
- recognize basic concepts of simple probability.