



State of Texas Assessments of Academic Readiness (STAAR™) Performance Level Descriptors Grade 7 Mathematics

Performance Level Descriptors

Mathematical process skills are not assessed in isolation but are incorporated into questions that assess grade 7 content. These process skills focus on applying mathematics to solve problems, communicating about mathematics, and using logical reasoning.

Students achieving Level III: Advanced Academic Performance can

- Evaluate the reasonableness of solutions to application problems involving operations with fractions, decimals, whole numbers, and percents and justify the solutions
- Extend and apply ratios to solve application problems including percents, proportions, and other relationships with a constant rate of change
- Extend and apply geometry and measurement concepts to solve application problems including area and volume
- Evaluate the reasonableness of given inferences based on data sets

Students achieving Level II: Satisfactory Academic Performance can

- Generate equivalent forms of fractions, decimals, whole numbers, and percents
- Solve application problems involving addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals
- Solve application problems involving percents and proportional relationships
- Formulate linear equations from problem situations and problem situations from linear equations
- Use critical attributes to define similarity
- Graph reflections and translations on a coordinate plane
- Solve application problems involving area (polygons and other shapes) and volume (triangular prisms and cylinders)
- Make inferences based on analysis of given data
- Choose among mean, median, mode, and range to describe a set of data and justify the choice for a particular situation

Students achieving Level I: Unsatisfactory Academic Performance can

- Use models to solve multiplication and division problems with fractions and decimals
- Recognize linear equations from problem situations
- Solve application problems involving length (perimeter and circumference), area (triangles and rectangles), and volume (rectangular prisms)
- Find mean, median, mode, and range for a set of data