

State of Texas Assessments of Academic Readiness (STAAR™) Performance Level Descriptors Grade 6 Mathematics

Performance Level Descriptors

Mathematical process skills are not assessed in isolation but are incorporated into questions that assess grade 6 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, and whole numbers
- Extend and apply ratios to solve application problems including relationships with a constant rate of change
- Extend and apply geometry and measurement concepts to solve application problems including circumference
- Make predictions and inferences from data

Students achieving Level II: Satisfactory Academic Performance can

- Identify equivalent forms of whole numbers, fractions, and decimals
- Solve application problems involving addition and subtraction of whole numbers, fractions, and decimals
- Solve application problems involving multiplication and division of whole numbers including equivalent ratios and rates
- Use order of operations to simplify whole number expressions in problem-solving situations
- Use ratios to represent proportional relationships and solve problems
- Formulate linear equations from problem situations
- Use geometric relationships to solve application problems involving the angles in triangles and quadrilaterals and the radius, diameter, and circumference of circles
- Select and use appropriate units, tools, and formulas to measure and solve application problems involving length, perimeter, area, time, temperature, volume, and weight
- Solve problems by collecting, organizing, displaying, and interpreting data

Students achieving Level I: Unsatisfactory Academic Performance can

- Use models to solve addition and subtraction problems with fractions
- Represent ratios using models, fractions, and decimals
- Classify and measure angles
- Select an appropriate representation for displaying data