

TCAP Achievement, Grade 6, Mathematics
Criterion Referenced Test (CRT) Reporting Categories with State Performance Indicators

Mathematical Processes	
SPI#	State Performance Indicator
0606.1.1	Make conjectures and predictions based on data.
0606.1.2	Judge the reasonableness of the results of rational number estimates and/or computations.
0606.1.3	Use concrete, pictorial, and symbolic representation for integers.
0606.1.4	Select the representation that models one of the arithmetic properties (commutative, associative, or distributive).
0606.1.5	Model algebraic expressions using algebra tiles.
Number and Operations	
SPI#	State Performance Indicator
0606.2.1	Solve problems involving the multiplication and division of fractions.
0606.2.2	Solve problems involving the addition, subtraction, multiplication, and division of mixed numbers.
0606.2.3	Solve problems involving the addition, subtraction, multiplication, and division of decimals.
0606.2.4	Solve multi-step arithmetic problems using fractions, mixed numbers, and decimals.
0606.2.5	Transform numbers from one form to another (fractions, decimals, percents, and mixed numbers).
0606.2.6	Solve problems involving ratios, rates and percents.
0606.2.7	Locate positive rational numbers on the number line.
0606.2.8	Locate integers on the number line.
Algebra	
SPI#	State Performance Indicator
0606.3.1	Represent on a number line the solution of a linear inequality.
0606.3.2	Use order of operations and parentheses to simplify expressions and solve problems.
0606.3.3	Write equations that correspond to given situations or represent a given mathematical relationship.
0606.3.4	Rewrite expressions to represent quantities in different ways.
0606.3.5	Translate between verbal expressions/sentences and algebraic expressions/equations.
0606.3.6	Solve two-step linear equations using number sense, properties, and inverse operations.
0606.3.7	Use algebraic expressions and properties to analyze numeric and geometric patterns.
0606.3.8	Select the qualitative graph that models a contextual situation (e.g., water filling then draining from a bathtub).
0606.3.9	Graph ordered pairs of integers in all four quadrants of the Cartesian coordinate system.
Geometry and Measurement	
SPI#	State Performance Indicator
0606.4.1	Identify, define or describe geometric shapes given a visual representation or a written description of its properties.
0606.4.2	Find a missing angle measure in problems involving interior/exterior angles and/or their sums.
0606.4.3	Solve problems using the Triangle Inequality Theorem.
0606.4.4	Calculate with circumferences and areas of circles.
0606.4.5	Determine the surface area and volume of prisms, pyramids and cylinders.
0606.4.6	Given the volume of a cone/pyramid, find the volume of the related cylinder/prism or vice versa.
Data Analysis, Statistics, and Probability	
SPI#	State Performance Indicator
0606.5.1	Determine the theoretical probability of simple and compound events in familiar contexts.
0606.5.2	Identify features of graphs that may be misleading.
0606.5.3	Determine whether or not a sample is biased.