

TCAP Achievement, Grade 3, Mathematics
Criterion Referenced Test (CRT) Reporting Categories with State Performance Indicators

Mathematical Processes	
SPI#	State Performance Indicator
0306.1.1	Solve problems using a calendar.
0306.1.2	Solve problems involving elapsed time.
0306.1.3	Determine the correct change from a transaction less than a dollar.
0306.1.4	Match the spoken, written, concrete, and pictorial representations of fractions with denominators up to ten.
0306.1.5	Represent problem mathematically using diagrams, numbers, and symbolic expressions.
0306.1.6	Identify and use vocabulary to describe attributes of two- and three-dimensional shapes.
0306.1.7	Select appropriate units and tools to solve problems involving measures.
0306.1.8	Express answers clearly in verbal, numerical, or graphical (bar and picture) form, using units when appropriate.
Number and Operations	
SPI#	State Performance Indicator
0306.2.1	Read and write numbers up to 10,000 in numerals and up to 1,000 in words.
0306.2.2	Identify the place value of numbers in the ten-thousands, thousands, hundreds, tens, and ones positions.
0306.2.3	Convert between expanded and standard form with whole numbers to 10,000.
0306.2.4	Compare and order numbers up to 10,000 using the words less than, greater than, and equal to, and the symbols $<$, $>$, $=$.
0306.2.5	Identify various representations of multiplication and division.
0306.2.6	Recall basic multiplication facts through 10 times 10 and the related division facts.
0306.2.7	Compute multiplication problems that involve multiples of ten using basic number facts.
0306.2.8	Solve problems that involve the inverse relationship between multiplication and division.
0306.2.9	Solve contextual problems involving the addition (with and without regrouping) and subtraction (without regrouping) of two- and three-digit whole numbers.
0306.2.10	Identify equivalent fractions given by various representations.
0306.2.11	Recognize and use different interpretations of fractions.
0306.2.12	Name fractions in various contexts that are less than, equal to, or greater than one.
0306.2.13	Recognize, compare, and order fractions (benchmark fractions, common numerators, or common denominators).
0306.2.14	Add and subtract fractions with like denominators.
Algebra	
SPI#	State Performance Indicator
0306.3.1	Verify a conclusion using algebraic properties.
0306.3.2	Express mathematical relationships using number sentences/equations.
0306.3.3	Find the missing values in simple multiplication and division equations.
0306.3.4	Describe or extend (including finding missing terms) geometric and numeric patterns.
Geometry and Measurement	
SPI#	State Performance Indicator
0306.4.1	Recognize polygons and be able to identify examples based on geometric definitions.
0306.4.2	Determine if two figures are congruent based on size and shape.
0306.4.3	Identify the line of symmetry in a two-dimensional design or shape.
0306.4.4	Calculate the perimeter of shapes made from polygons.
0306.4.5	Choose reasonable units of measure, estimate common measurements using benchmarks, and use appropriate tools to make measurements.
0306.4.6	Measure length to the nearest centimeter or half inch.
0306.4.7	Solve problems requiring the addition and subtraction of lengths.
Data Analysis, Statistics, and Probability	
SPI#	State Performance Indicator
0306.5.1	Interpret a frequency table, bar graph, pictograph, or line plot.
0306.5.2	Solve problems in which data is represented in tables or graphs.
0306.5.3	Make predictions based on various representations of data.