

**TCAP Achievement, Grade 4, Mathematics**  
**Criterion Referenced Test (CRT) Reporting Categories with State Performance Indicators**

<b>Mathematical Processes</b>	
<b>SPI#</b>	<b>State Performance Indicator</b>
0406.1.1	Verify a conclusion using the commutative, associative and distributive properties.
0406.1.2	Compare decimals using concrete and pictorial representations.
0406.1.3	Determine the correct change from a transaction.
0406.1.4	Compare objects with respect to a given geometric or physical attribute and select appropriate measurement instrument.
<b>Number and Operations</b>	
<b>SPI#</b>	<b>State Performance Indicator</b>
0406.2.1	Read and write numbers from hundredths to hundred-thousands in numerals and in words.
0406.2.2	Locate and place mixed numbers on the number line.
0406.2.3	Identify the place value of a specified digit in a number and the quantity it represents.
0406.2.4	Find factors, common factors, multiples, and common multiples of two numbers.
0406.2.5	Generate equivalent forms of common fractions and decimals and use them to compare size.
0406.2.6	Use the symbols $<$ , $>$ and $=$ to compare common fractions and decimals in both increasing and decreasing order.
0406.2.7	Convert improper fractions into mixed numbers and/or decimals.
0406.2.8	Add and subtract proper fractions with like and unlike denominators and simplify the answer.
0406.2.9	Add and subtract decimals through hundredths.
0406.2.10	Solve contextual problems using whole numbers, fractions, and decimals.
0406.2.11	Solve problems using whole number multi-digit multiplication.
0406.2.12	Solve problems using whole number division with one- or two-digit divisors.
<b>Algebra</b>	
<b>SPI#</b>	<b>State Performance Indicator</b>
0406.3.1	Use letters and symbols to represent an unknown quantity and write a simple mathematical expression.
0406.3.2	Make generalizations about geometric and numeric patterns.
0406.3.3	Represent and analyze patterns using words, function tables, and graphs.
<b>Geometry and Measurement</b>	
<b>SPI#</b>	<b>State Performance Indicator</b>
0406.4.1	Classify lines and line segments as parallel, perpendicular, or intersecting.
0406.4.2	Graph and interpret points with whole number or letter coordinates on grids or in the first quadrant of the coordinate plane.
0406.4.3	Construct geometric figures with vertices at points on a coordinate grid.
0406.4.4	Identify acute, obtuse, and right angles in 2-dimensional shapes.
0406.4.5	Identify attributes of simple and compound figures composed of 2- and 3- dimensional shapes.
0406.4.6	Determine situations in which a highly accurate measurement is important.
0406.4.7	Determine appropriate size of unit of measurement in problem situations involving length, capacity or weight.
0406.4.8	Convert measurements within a single system that are common in daily life (e.g., hours and minutes, inches and feet, centimeters and meters, quarts and gallons, liters and milliliters).
0406.4.9	Solve problems involving area and/or perimeter of rectangular figures.
0406.4.10	Identify images resulting from reflections, translations, or rotations.
<b>Data Analysis, Statistics, and Probability</b>	
<b>SPI#</b>	<b>State Performance Indicator</b>
0406.5.1	Depict data using various representations (e.g., tables, pictographs, line graphs, bar graphs).
0406.5.2	Solve problems using estimation and comparison within a single set of data.
0406.5.3	Given a set of data or a graph, describe the distribution of the data using median, range, or mode.
0406.5.4	List all possible outcomes of a given situation or event.