

# Subject

Month	Content	Skills	Assessment	Essential Questions
<b>September</b>	Number Properties	<p>Read and write whole numbers to trillions (1 day)</p> <p>Justify the reasonable-ness of estimates</p> <p>Define and identify the commutative and associate properties of addition over multiplication, the distributive property of multiplication over addition, the identity and inverse properties of addition and multiplication, and the zero property of multiplication (2 days)</p>		
	Order of Operations	Evaluate numerical expressions using order of operations (may include exponents of two and three-cover after reviewing exponents) (2 days)		
	Exponents	<p>Represent repeated multiplication in exponential form</p> <p>Represent exponential form as repeated multiplication</p> <p>Evaluate expressions having exponents where the power is and exponent of one, two, or three (1 days)</p>		
<b>October</b>	Measure of Central Tendency	<p>Determine the mean, median, mode for a given set of data</p> <p>Determine the range for a given set of data (2 day)</p>		

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	Analyzing Graphs	Read and interpret graphs (1 day)		
<b>November</b>	Algebraic Expressions	Use substitution to evaluate algebraic expressions with only one variable in expressions (may include exponents of one, two, and three) (1 day)  Solve one step equations		
	Algebraic Expressions and Equations	Solve two-step equations  Translate two-step verbal expressions into algebraic expressions		
	Fractions and other equivalent representations	Represent fractions as terminating or repeating decimals (1 day)  Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100) (1 day)		
<b>December</b>	Fractions	Identify the multiplicative inverse (reciprocal) of a number  Multiply and divide fractions with unlike denominators  Multiply and divide mixed numbers with unlike denominators Solving one step equations with fractions		
	Customary Units of Capacity	Identify customary units of capacity (cups, pints, quarts, and gallons)		

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	Customary Units of Capacity	<p>Identify customary units of capacity (cups, pints, quarts, and gallons)</p> <p>Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons) (2 days)</p>		
January	Fractions	<p>Add and subtract fractions with unlike denominators</p> <p>Add and subtract mixed numbers with unlike denominators (2 days)</p>		
	Ratios, Rates, Proportions, and Percents	<p>Distinguish the difference between rate and ratio</p> <p>Understand the concept of rate</p> <p>Express equivalent ratios as a proportion</p> <p>Solve proportions using equivalent fractions</p> <p>Verify the proportionality using the product of the means equals the product of the extremes (4 days)</p> <p>Changing percents, fractions, and decimals to each other</p> <p>Finding percents of a number</p>		

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<b>February</b>	Similar Triangles	Calculate the length of corresponding sides of similar triangles using proportional reasoning		
	Metric Units of Capacity	Identify metric units of capacity (liter and milliliter)  Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter) (2 days)  Determine the tool and technique to measure with appropriate level of precision		
	Area	Estimate and determine the area of triangles and quadrilaterals (squares, rectangles, rhombi and trapezoids) and develop formulas  Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)  Use a variety of strategies to find the area of regular and irregular polygons		
<b>March</b>	Circles	Identify radius, diameter, chords, and central angles of a circle  Understand the relationship between the diameter and radius of a circle  Estimate and determine the area and circumference of a circle using the appropriate formula  Calculate the area of a sector of a circle, given the measure of a central angle and the radius of a circle		

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<b>March</b>	Circles	<p>Identify radius, diameter, chords, and central angles of a circle</p> <p>Understand the relationship between the diameter and radius of a circle</p> <p>Estimate and determine the area and circumference of a circle using the appropriate formula</p> <p>Calculate the area of a sector of a circle, given the measure of a central angle and the radius of a circle</p> <p>Understand the relationship between the circumference and the diameter of a circle</p>		
	Volume and Capacity	<p>Determine the volume of rectangular prisms by counting cubes and develop the formula</p> <p>Estimate and measure capacity and volume of a rectangular prism (2 days)</p>		
	Integers	<p>Define absolute value and determine the absolute value of rational numbers (including positive and negative)</p> <p>Locate rational numbers on a number line (including positive and negative)</p> <p>Order rational numbers (including positive and negative) (2 days)</p>		
<b>April</b>	Coordinate Geometry	<p>Identify and plot points in all four quadrants (2 days)</p> <p>Calculate the area of basic polygons drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths) (2 days)</p>		

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	Review for State Test			
<b>May</b>	Sampling	Develop the concept of sampling when collecting data from a population and decide the best method to collect data for a particular question (1 day)		
	Organization and display of data	Record and construct a frequency table  Determine and justify the most appropriate graph to display the given set of data (pictograph, bar, graph, line graph, histogram or circle graph)  Construct venn diagrams		
<b>June</b>				