

GRADE 6

Expressions & Equations

TimeFrame/ First Trimester

	Common Core State Standard	Assessment	Resources	Vocabulary
	<p>Apply and extend previous understandings of arithmetic to algebraic expressions.</p> <p>CCSS.Math.Content.6.EE.A.1 Write and evaluate numerical expressions involving whole-number exponents.</p>	<p>Digits 1-5 Expressions with Exponents Topic 1 Review Topic 1 Assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>power, base, exponent</p>
	<p>CCSS.Math.Content.6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.</p>	<p>Digits 1-3: Writing Algebraic Expressions 1-4: Evaluating Algebraic Expressions</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons</p>	<p>numerical expression, algebraic expression, evaluating, variable, term, constant, coefficient, sum, product, quotient, difference, factors</p>

			Math Aids	
	CCSS.Math.Content.6.EE.A.2.a Write expressions that record operations with numbers and with letters standing for numbers. <i>For example, express the calculation "Subtract y from 5" as $5 - y$.</i>	Digits 1-2: Algebraic Expressions 1-3: Writing Algebraic Expression 1-6: Problem Solving Topic 1 Review Topic 1 Assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	numerical expression, algebraic expression, variable, term, constant, coefficient, sum, product, quotient, difference, factors bar diagram
	CCSS. Math.Content.A2b Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. <i>For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.</i>	Digits 1-2: Algebraic Expressions Topic 1 Review Topic 1 Assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	Numerical expression, algebraic expression, variable expression
	CCSS.Math.Content.6.EE.A.2.c Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). <i>For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = \frac{1}{2}$.</i>	Digits 1-2: Algebraic Expressions 1-4: Evaluating Algebraic Expressions 1-5: Expressions with Exponents 2-1 Identity and Zero Properties 2-4: Greatest Common Factor	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	numerical expression, evaluate, equivalent expressions, sum, difference, product, quotient algebraic expression, evaluating, variable, term, constant, coefficient, sum, product, quotient, difference, factors

	<p>CCSS.Math.Content.6.EE.A.3</p> <p>Apply the properties of operations to generate equivalent expressions. <i>For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y + y$ to produce the equivalent expression $3y$.</i></p>	<p>Lesson 2-1: The Identity and Zero Properties</p> <p>Lesson 2-2: The Commutative Properties</p> <p>Lesson 2-3: The Associative Properties</p> <p>Lesson 2-5: The Distributive Property</p> <p>Lesson 2-7: Problem Solving</p> <p>Topic 2 Assessment</p>	<p>Digits Online</p> <p>Digits Student Companion</p> <p>Common Core Worksheets</p> <p>Share My Lessons</p> <p>Math Aids</p>	<p>identity property of addition. identity property of multiplication, zero property of multiplication distributive property</p>

	<p>CCSS.Math.Content.6.EE.A.4</p> <p>Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). <i>For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for..</i></p>	<p>Lesson 1-1: Numerical Expressions Lesson 2-1: The Identity and Zero Properties Lesson 2-2: The Commutative Properties Lesson 2-3: The Associative Properties Lesson 2-5: The Distributive Property Topic 2 Assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>numerical expression, evaluate, equivalent expressions, sum, difference, product, quotient identity property of addition. identity property of multiplication, zero property of multiplication commutative property of addition. commutative property of multiplication, addends, factors associative property of addition, associative property of multiplication</p>
	<p>Reason about and solve one-variable equations and inequalities.</p> <p>CCSS.Math.Content.6.EE.B.5</p> <p>Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true</p>	<p>Lesson 3-1: Expressions to Equations Lesson 3-6: Solving Inequalities Lesson 3-6: Solving Inequalities Lesson 3-7: Problem Solving Topic 3 Assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>equation, equivalent expressions, true equation, false equation, open sentence, solution of an equation inequality, solution of an inequality</p>
	<p>CCSS.Math.Content.6.EE.B.6</p> <p>Use variables to represent numbers and write expressions when solving a real-world or mathematical problem;</p>	<p>Lesson 1-2: Algebraic Expressions Lesson 1-3: Writing Algebraic Expressions</p>	<p>Digits Online Digits Student Companion Common Core</p>	<p>numerical expression, algebraic expression, variable, term, constant, coefficient, sum,</p>

	understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	Lesson 1-5: Expressions with Exponents Topic 1 assessment	Worksheets Share My Lessons Math Aids	product, quotient, difference, factors power, base, exponent
	CCSS.Math.Content.6.EE.B.7 Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p , q and x are all nonnegative rational numbers.	Lesson 3-3: Solving Addition and Subtraction Equations Lesson 3-4: Solving Multiplication and Division Equations Lesson 3-7: Problem Solving Lesson 6-5: Problem Solving Lesson 7-7: Problem Solving Topic 3 assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	inverse operations inequality, solution of an inequality
	CCSS.Math.Content.6.EE.B.8 Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	Lesson 3-5: Equations to Inequalities Lesson 3-6: Solving Inequalities Topic 3 assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	inequality, solution of an inequality

The Number System

TimeFrame/ Second Trimester

	Common Core State Standard	Assessment	Resources	Vocabulary
	<p>Apply and extend previous understandings of multiplication and division to divide fractions by fractions.</p> <p>CCSS.Math.Content.6.NS.A.1</p> <p>Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. <i>For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$-cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?.</i></p>	<p>Lesson 5-1: Multiplying Fractions and Whole Numbers</p> <p>Lesson 5-3: Multiplying Fractions and Mixed Numbers</p> <p>Lesson 5-3: Multiplying Fractions and Mixed Numbers</p> <p>Lesson 5-5: Problem Solving</p> <p>Lesson 6-1: Dividing Fractions and Whole Numbers</p> <p>Lesson 6-2: Dividing Unit Fractions by Unit Fractions</p> <p>Lesson 6-4: Dividing Mixed Numbers</p> <p>Lesson 6-5: Problem Solving</p> <p>Topic 6 assessment</p>	<p>Digits Online</p> <p>Digits Student Companion</p> <p>Common Core Worksheets</p> <p>Share My Lessons</p> <p>Math Aids</p>	<p>reciprocals, quotient, divisor, dividend, inverse operation</p> <p>unit fraction</p>

	<p>Compute fluently with multi-digit numbers and find common factors and multiples.</p> <p>CCSS.Math.Content.6.NS.B.2 Fluently divide multi-digit numbers using the standard algorithm.</p>	<p>Lesson 7-3: Dividing Multi-Digit Numbers Topic 7 assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>compatible numbers divisor, dividend, quotient</p>
	<p>CCSS.Math.Content.6.NS.B.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.</p>	<p>Lesson 7-1: Adding and Subtracting Decimals Lesson 7-2: Multiplying Decimals Lesson 7-4: Dividing Decimals Topic 7 assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>Addends, difference, Factor, product, Dividend, divisor, quotient, sum</p>
	<p>CCSS.Math.Content.6.NS.B.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. <i>For example, express $36 + 8$ as $4(9 + 2)$.</i></p>	<p>Lesson 2-4: Greatest Common Factor Lesson 2-5: The Distributive Property Lesson 2-6: Least Common Multiple Lesson 2-7: Problem Solving Topic 2 assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>factor, common factor, greatest common factor, prime number, composite number, prime factorization distributive property, least common multiple, common multiple, multiple</p>
	<p>Apply and extend previous understandings of numbers to the system of rational numbers.</p>			

	CCSS.Math.Content.6.NS.C.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation	Lesson 8-1: Integers and the Number Line Lesson 9-1: Rational Numbers and the Number Line Topic 8 & 9 assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	opposites, integers rational numbers
	CCSS.Math.Content.6.NS.C.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.	Lesson 15-2: Dot Plots Lesson 15-3: Histograms Lesson 15-4: Box Plots Lesson 15-5: Choosing an Appropriate Display Lesson 15-6: Problem Solving Lesson 8-1: Integers and the Number Line Lesson 8-4: Integers and the Coordinate Plane Lesson 9-1: Rational Numbers and the Number Line Lesson 9-4: Rational Numbers and the Coordinate Plane Lesson 9-5: Polygons in the Coordinate Plane Topic 8,9,15 assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	dot plot, frequency, distribution histogram box plot, minimum, maximum opposites, integers coordinate plane, origin, x-axis, y-axis, quadrant, ordered pair, x-coordinate, y-coordinate, transformation, reflection, line of reflection, image rational numbers polygon, vertex of a polygon
	CCSS.Math.Content.6.NS.C.6.a Recognize opposite signs of numbers as indicating locations on opposite sides of 0	Lesson 15-2: Dot Plot Lesson 15-3: Histograms Lesson 15-4: Box Plots	Digits Online Digits Student Companion	dot plot, frequency, distribution, histogram box plot, minimum,

	<p>on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.</p>	<p>Lesson 15-5: Choosing an Appropriate Display Lesson 15-6: Problem Solving Lesson 8-1: Integers and the Number Line Lesson 8-4: Integers and the Coordinate Plane Lesson 9-1: Rational Numbers and the Number Line Lesson 9-4: Rational Numbers and the Coordinate Plane Lesson 9-5: Polygons in the Coordinate Plane Topic 8,9,15 assessments</p>	<p>Common Core Worksheets Share My Lessons Math Aids</p>	<p>maximum coordinate plane, origin, x-axis, y-axis, quadrant, ordered pair, x-coordinate, y-coordinate, transformation, reflection, line of reflection, image opposites, integers rational numbers polygon, vertex of a polygon</p>
	<p>CCSS.Math.Content.6.NS.C.6.b Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.</p>	<p>Lesson 8-6: Problem Solving Lesson 9-4: Rational Numbers and the Coordinate Plane Lesson 9-6: Problem Solving Topic 8,9 assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>Quadrants,reflection Axes,origin Coordinate plane</p>
	<p>CCSS.Math.Content.6.NS.C.6.c Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.</p>	<p>Lesson 15-2: Dot Plots Lesson 15-3: Histograms Lesson 15-4: Box Plots Lesson 15-5: Choosing an Appropriate Display Lesson 15-6: Problem Solving</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons</p>	<p>dot plot, frequency, distribution,histograms box plot, minimum, maximum opposites, integers coordinate plane, origin, x-axis, y-axis, quadrant,</p>

		Lesson 8-1: Integers and the Number Line Lesson 8-4: Integers and the Coordinate Plane Lesson 9-1: Rational Numbers and the Number Line Lesson 9-4: Rational Numbers and the Coordinate Plane Lesson 9-5: Polygons in the Coordinate Plane Topic 8,9,15 assessment	Math Aids	ordered pair, x-coordinate, y-coordinate, transformation, reflection, line of reflection, image rational numbers polygon, vertex of a polygon
	CCSS.Math.Content.6.NS.C.7 Understand ordering and absolute value of rational numbers.	Lesson 7-5: Decimals and Fractions Lesson 7-6: Comparing and Ordering Decimals and Fractions Lesson 7-7: Problem Solving Lesson 8-2: Comparing and Ordering Integers Lesson 8-3: Absolute Value Lesson 9-2: Comparing Rational Numbers Lesson 9-3: Ordering Rational Numbers Lesson 9-6: Problem Solving Topic 7,8,9 assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	absolute value
	CCSS.Math.Content.6.NS.C.7.a Interpret statements of inequality as statements about the relative position of	Lesson 8-2: Comparing and Ordering Integers Lesson 9-2: Comparing	Digits Online Digits Student Companion	Number line, inequality

	two numbers on a number line diagram. <i>For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.</i>	Rational Numbers Lesson 9-3: Ordering Rational Numbers Topic 8.9 assessments	Common Core Worksheets Share My Lessons Math Aids	
	CCSS.Math.Content.6.NS.C.7.b Write, interpret, and explain statements of order for rational numbers in real-world contexts. <i>For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C.</i>	Lesson 8-2: Comparing and Ordering Integers Lesson 9-2: Comparing Rational Numbers Lesson 9-3: Ordering Rational Numbers Lesson 9-6: Problem Solving Topic 8, 9 assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	
	CCSS.Math.Content.6.NS.C.7.c Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. <i>For example, for an account balance of -30 dollars, write $-30 = 30$ to describe the size of the debt in dollars</i>	Lesson 8-3: Absolute Value Lesson 8-6: Problem Solving Lesson 9-2: Comparing Rational Numbers Topic 8.9 assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	absolute value
	CCSS.Math.Content.6.NS.C.7.d Distinguish comparisons of absolute value from statements about order. <i>For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars</i>	Lesson 8-3: Absolute Value Topic 8 assessment Lesson 4-2: Analyzing	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	absolute value

	6. NS.C.8: Solve real world mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distance between points with the same first coordinate or the same second coordinate.	Patterns Using Tables and Graphs Lesson 8-4: Integers and the Coordinate Plane Lesson 8-5: Distance Lesson 9-5: Polygons in the Coordinate Plane	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	coordinate plane, origin, x-axis, y-axis, quadrant, ordered pair, x-coordinate, y-coordinate, transformation, reflection, line of reflection, image polygon, vertex of a polygon
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Ratios & Proportional Relationships

TimeFrame/Third Trimester

	Common Core State Standard	Assessment	Resources	Vocabulary
	Understand ratio concepts and use ratio reasoning to solve problems. CCSS.Math.Content.6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. <i>For example, "The ratio of wings to beaks in the</i>	10-1: Ratios 10-4: Ratios as Fractions 10-5: Ratios as Decimals 10-6: Problem Solving Unit 10 Assessment	DIGITS Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	ratios, fractions, equivalent, problems, quantitative, relationships, represents, analyzes ratios, terms, part-to-part, part-to-whole, whole-to-part, relationships, problems, quantitative

	<i>bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."</i>			
	<p>CCSS.Math.Content.6.RP.A.2</p> <p>Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. <i>For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger."</i></p>	<p>11-1: Unit Rates 12-2: Recognizing Proportionality Unit 11,12 Assessment</p>	<p>DIGITS UNIT Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>rates, units, ratios, equivalent, reasoning, relationships ratios, rates, per, fractions, equivalents, proportional, graphs, tables, equations, independent, dependent, variables, proportional, relationships, constant, speeds</p>
	<p>CCSS.Math.Content.6.RP.A.3</p> <p>Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.</p>	<p>10-2: Exploring Equivalent Ratios 10-3: Equivalent Ratios 10-4: Ratios as Fractions 10-5: Ratios as Decimals 10-6: Problem Solving 11-1: Unit Rates 11-5: Choosing the Appropriate 11-6: Problem Solving Rate 12-5: Problem Solving Unit 10,11,12 Assessments</p>	<p>DIGITS UNIT Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>ratios, equivalent, tables, double, number, lines, diagrams, language, reasoning, problems, compares rates, units, ratios, equivalent, reasoning, relationships Time, , per, fractions, equivalents, proportional, graphs, tables, equations, independent, dependent, variables, proportional, relationships, constant, speeds</p>
	<p>CCSS.Math.Content.6.RP.A.3.a</p> <p>Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare</p>	<p>12-1: Plotting Ratios and Rates 12-2: Recognizing Proportionality Unit 12 Assessment</p>	<p>DIGITS UNIT Digits Online Digits Student Companion Common Core Worksheets Share My Lessons</p>	<p>ratios, rates, per, fractions, equivalents, proportional, graphs, tables, equations, independent, dependent, variables, speeds</p>

	ratios.		Math Aids	
	<p>CCSS.Math.Content.6.RP.A.3.b Solve unit rate problems including those involving unit pricing and constant speed. <i>For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?</i></p>	<p>11-2: Unit Prices 11-3: Constant Speed 11-5: Choosing the Appropriate Rate 7-2: Multiplying Decimals 7-3: Dividing Multi-Digit Numbers 7-4: Dividing Decimals Unit 7,11 Assessment</p>	<p>DIGITS UNIT Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>units, prices, rates, equivalent, ratios, reasoning, tape diagrams, double number lines, pricing, constant, speed units, rates, reasoning, reciprocals, prices, pricing, wages products, factors, decimal places, rounding, multiplying, placeholder, multiplication dividing, division, decimals, powers of 10, power of 10, placeholders, quotients, long division, remainders</p>
	<p>CCSS.Math.Content.6.RP.A.3.c Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.</p>	<p>12-3: Introducing Percents 12-4: Using Percents 12-5 Problem Solving Unit 12 Assessment</p>	<p>DIGITS UNIT Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>percents, ratios, wholes, parts, ratios, rates, fractions, grids, per, hundreds, circles, graphs, parts, wholes, ratios, per, equivalents, proportional, proportions, reasoning</p>
	<p>CCSS.Math.Content.6.RP.A.3.d Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.</p>	<p>11-4: Measurements and Ratios Unit 11 Assessment</p>	<p>DIGITS UNIT Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>ratios, reasoning, measurements, units, customary, metric, convert, conversions</p>

Geometry

TimeFrame/Third Trimester

	Common Core State Standard	Assessment	Resources	Vocabulary
	<p>Solve real-world and mathematical problems involving area, surface area, and volume.</p> <p><u>CCSS.Math.Content.6.G.A.1</u></p> <p>Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems</p>	<p>13-1: Rectangles and Squares Lesson 14-1: Analyzing Three-Dimensional Figure</p> <p>13-2: Right Triangles 13-3: Parallelograms 13-4: Other Triangle 13-5: Polygons 14-3: Surface Areas of Prisms 14-4: Surface Area of Pyramids 14-5: Volumes of Rectangular Prisms</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>three-dimensional figure, face of a three-dimensional figure, edge of a three-dimensional figure, vertex of a three-dimensional figure, prism, base of a prism, height of a prism, lateral face of a prism, pyramid, base of a pyramid, height of a pyramid, lateral face of a pyramid</p>

		Unit 13, Unit 14 Assessment		
	<p>CCSS.Math.Content.6.G.A.2</p> <p>Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.</p>	<p>14-5 Volume of Rectangles and Prisms</p> <p>14-6: Problem Solving</p> <p>Unit 14 Assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>volume of a prism Volume,prisms ,rectangles, rectangular, bases Heights,surfaces, Areas,cubes, units</p>
	<p>CCSS.Math.Content.6.G.A.3</p> <p>Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.</p>	<p>8-5: Distance 8-6: Problem Solving 9-5: Polygons in the Coordinate Plane 9-6: Problem Solving</p> <p>Unit 8, 9 Assessments</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>polygon, vertex of a polygon, vertices distance, grid, coordinates, negative, absolute values, quadrants, reflection, reflected segments,</p>

Statistics & Probability

TimeFrame/ Third Trimester

	Common Core State Standard	Assessment	Resources	Vocabulary
	<p>Develop understanding of statistical variability. CCSS.Math.Content.6.SP.A.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. <i>For example, "How old am I?" is not a statistical question, but "How old are the students in my school?" is a statistical question because one anticipates variability in students' ages.</i></p>	<p>15-1: Statistical Questions Unit 15 Assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>statistical, questions, statistics, data, variability, variation, variety, scales, middle</p>

	CCSS.Math.Content.6.SP.A.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.	16-3: Variability Unit 16 Assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	measure, variability, variations, range, center, mean, median, data, sets, horizontal, scales, differences, values, high, low, vary
	CCSS.Math.Content.6.SP.A.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.	16-1: Median 16-2: Mean 16-3: Variability 16-4: Interquartile Range 16-5: Mean Absolute Deviation 16-6: Problem Solving Unit 16 Assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	measure, center, median, averages, box, plots, data, sets, numerical, middle, add, adding, divide, dividing, odd, even, values, upper, lower, half

	<p>Summarize and describe distributions.</p> <p>CCSS.Math.Content.6.SP.B.4</p> <p>Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</p>	<p>15-2: Dot Plots 15-3: Histograms 15-4: Box Plots 15-5: Choosing an Appropriate Display 15-6: Problem Solving 16-1: Median Unit 15,16 Assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>dots, plots, frequency, frequencies, distributions, clusters, gaps, data, stray, outlier, statistics, statistical, questions, spread, center, shape, values, middle</p>
	<p>CCSS.Math.Content.6.SP.B.5</p> <p>Summarize numerical data sets in relation to their context, such as by:</p>	<p>15-1: Statistical Questions 15-2 Dot Plots 15-3: Histograms 15-4: Box Plots 16-2: Mean 16-4: Interquartile Range 16-5: Mean Absolute Deviation Unit 15, 16 Assessment</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>dots, plots, frequency, frequencies, distributions, clusters, gaps, data, stray, outlier, statistics, statistical, questions, spread, center, shape, values, middle interquartile, range, iqr, first, quartile, third, box, plots, mean, median, data, sets, values, measures, variability, numerical, distance, middle, upper, half, lower, minimum, maximum deviates, mean, absolute, deviations, mad, data, values, positive, negative, measure, variability, average, distance, range, median, interquartile, first, quartile, third, reference, point</p>

	CCSS.Math.Content.6.SP.B.5.a Reporting the number of observations.	15-1: Statistical Questions 15-2 Dot Plots 15-3: Histograms 15-4: Box Plots 16-2: Mean 16-4: Interquartile Range 16-5: Mean Absolute Deviation Unit 15, 16 Assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	dots, plots, frequency, frequencies, distributions, clusters, gaps, data, stray, outlier, statistics, statistical, questions, spread, center, shape, values, middle interquartile, range, iqr, first, quartile, third, box, plots, mean, median, data, sets, values, measures, variability, numerical, distance, middle, upper, half, lower, minimum, maximum deviates, mean, absolute, deviations, mad, data, values, positive, negative, measure, variability, average, distance, range, median, interquartile, first, quartile, third, reference, point
	CCSS.Math.Content.6.SP.B.5.b Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.	15-1: Statistical Questions Unit 15 Assessment	Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids	statistical, questions, statistics, data, variability, variation, variety, scales, middle

	<p>CCSS.Math.Content.6.SP.B.5.c Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.</p> <p>CCSS.Math.Content.6.SP.B.5.d Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p>	<p>15-2: Dot Plots 15-3: Histograms 15-4: Box Plots 16-2: Mean 16-4: Interquartile Range 16-5: Mean Absolute Deviation Unit 15,16 Assessment</p> <hr/> <p>16-6: Problem Solving</p>	<p>Digits Online Digits Student Companion Common Core Worksheets Share My Lessons Math Aids</p>	<p>dots, plots, frequency, frequencies, distributions, clusters, gaps, data, stray, outlier, statistics, statistical, questions, spread, center, shape, values, middle interquartile, range, iqr, first, quartile, third, box, plots, mean, median, data, sets, values, measures, variability, numerical, distance, middle, upper, half, lower, minimum, maximum deviates, mean, absolute, deviations, mad, data, values, positive, negative, measure, variability, average, distance, range, median, interquartile, first, quartile, third, reference, point</p>
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