SADLIER

Common Core Progress Mathematics

SADLIER

Progress in Mathematics

Common Core State Standards for Mathematics

Crosswalk

Grade 6

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	Focus on Ratios and ional Relationships			
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		Instruction *11-2B Ratios and Unit Rates—Online 11-3 Rates (unit rate, unit price)—pp. 380–381	6.RP.2 6.RP.A.2	 Inderstand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the 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." Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship. 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."¹ ¹Expectations for unit rates in this grade are limited to non-complex fractions. a 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 ratios. b Solve unit rate problems including those
				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
				vote candidate A received, candidate C received nearly three votes." 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. 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." ¹ ¹ Expectations for unit rates in this grade are limited to non-complex fractions. 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
Lesson 2	Use Ratio Tables to Find Equivalent Ratios—pp. 18–25	Instruction *11-2B Ratios and Unit Rates—Online - *11-3A Compare Ratios—Online	6.RP.3a 6.RP.A.3a	quantities with whole-number
Lesson 3	Use Ratio Tables to Compare Ratios— pp. 26–33	*14-7A Model Rates—Online		tables, and plot the pairs of values on the coordinate plane. Use tables to compare
Lesson 4	Solve Unit Rate Problems—pp. 34–41	bblems—pp. 34–41 11-3 Rates (unit rate, unit price)—pp. 380–381	6.RP.3b 6.RP.A.3b	
		11-4 Proportions—pp. 382–383 *11-4A Model Proportions with Double Number Lines—Online		ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the 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." Understand the concept of a unit rate <i>a/b</i> associated with a ratio <i>a:b</i> with <i>b</i> ≠ 0, and use rate language in the context of a ratio relationship. 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." ¹ 'Expectations for unit rates in this grade are limited to non-complex fractions. 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 ratios. Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns
				– continued on next page –

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		*11-4B Model Proportions with Tape Diagrams—Online 11-5 Solve Proportions—pp. 384–385 11-6 Write Proportions—pp. 386–387 11-7 Proportions and Similar Figures—pp. 388–389 11-8 Use Proportions—pp. 390–391		– continued from previous page – mowed in 35 hours? At what rate were lawns being mowed?
		12-9 Better Buy—pp. 430–431		
		Application 11-16 Problem Solving Applications: Mixed Review— pp. 406–407		
Lesson 5	Calculate a Percent of a Quantity—pp. 42–49	Instruction 12-1 Mental Math: Percent—pp. 414–415 12-3 Percentage of a Number—pp. 418–419	6.RP.3c 6.RP.A.3c	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
Lesson 6	Find the Whole Given a Part and the Percent—pp. 50–57	12-4 Find the Rate—pp. 420–421 12-5 Find the Original Number—pp. 422–423 12-6 Percent Problems—pp. 424–425 12-13 Problem Solving Strategy: Write an Equation— pp. 438–439		finding the whole, given a part and the percent.
Lesson 7	Convert Measurement Units —pp. 58– 65	Instruction 13-1 Measure Metric Length—pp. 448–449 13-2 Measure Metric Capacity and Mass—pp. 450–451 13-3 Measure Customary Length—pp. 452–453 13-4 Measure Customary Capacity and Weight—pp. 454–455 13-5 Compute Customary Units—pp. 456–457 13-7 Relate Customary and Metric Units—pp. 460–461 *13-7A Use Proportions to Convert Units—Online	6.RP.3d 6.RP.A.3d	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
Lesson 8	Problem Solving: Ratios and Rates— pp. 66–73	Instruction *11-2B Ratios and Unit Rates—Online *11-3A Compare Ratios—Online	6.RP.3a 6.RP.A.3a	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
		*14-7A Model Rates—Online		coordinate plane. Use tables to compare ratios.

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COMMON COR	RE PROGRESS MATHEMATICS, GRADE 6	PROGRESS IN MATHEMATICS, GRADE 6	COMMON CO	RE STATE STANDARDS FOR MATHEMATICS, GRADE 6
		 Instruction 11-3 Rates (unit rate, unit price)—pp. 380–381 11-4 Proportions—pp. 382–383 *11-4A Model Proportions with Double Number Lines—Online *11-4B Model Proportions with Tape Diagrams—Online 11-5 Solve Proportions—pp. 384–385 11-6 Write Proportions—pp. 386–387 11-7 Proportions and Similar Figures—pp. 388–389 11-8 Use Proportions—pp. 390–391 12-9 Better Buy—pp. 430–431 Application 11-16 Problem Solving Applications: Mixed Review— pp. 406–407 	6.RP.3b 6.RP.A.3b	Solve unit rate problems including those involving unit pricing and constant speed.
Unit 2: F	ocus on the Number System			
Lesson 9 Lesson 10	Divide a Fraction by a Fraction —pp. 80–87 Problem Solving: Fraction Division — pp. 88–95	Instruction 8-5 Meaning of Division—pp. 258–259 *8-5A Dividing with Fractions—Online 8-6 Divide Fractions by Fractions—pp. 260–261 8-8 Divide with Whole and Mixed Numbers—pp. 264–	6.NS.1 6.NS.A.1	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.
		265 Application 8-18 Problem Solving Applications: Mixed Review— pp. 284–285		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) ÷ (3/4) = 8/9 because 3/4 of 8/9 is 2/3. (In general, (a/b) ÷ (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?
Lesson 11	Divide Multi-digit Numbers —pp. 96– 103	Readiness Skills Update: Trial Quotients—p. 10 Skills Update: Divide Whole Numbers—p. 11 Instruction 3-1 Short Division—pp. 88–89	6.NS.2 6.NS.B.2	Fluently divide multi-digit numbers using the standard algorithm.

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		 3-3 Divide Whole Numbers—pp. 92–93 Application 3-14 Problem Solving Applications: Mixed Review— pp. 114–115 		
Lesson 12	2 Add and Subtract Multi-digit Decimals—pp. 104–111	Readiness Skills Update: Add Whole Numbers and Decimals—p. 5 Skills Update: Subtract Whole Numbers and	6.NS.3 6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.
Lesson 13	Multiply and Divide Multi-digit Decimals—pp. 112–119	 Skills Opdate: Subtract whole Numbers and Decimals—p. 6 Instruction 7 Addition of Whole Numbers and Decimals—pp. 46-47 8 Subtraction of Whole Numbers and Decimals—pp. 48-49 9 Addition and Subtraction of Decimals—pp. 50-51 2-1 Multiplication Patterns—pp. 66-67 2-4 Multiply with Decimals—pp. 72-73 3-4 Divide Decimals by 10, 100, and 1,000—pp. 94-95 3-5 Divide Decimals by Whole Numbers—pp. 96-97 3-6 Patterns with Tenths, Hundredths, and Thousandths—pp. 98-99 3-8 Decimal Divisors—pp. 102-103 3-9 Zeros in Division—pp. 104-105 Application 1-13 Problem Solving Applications: Mixed Review—pp. 58-59 2-8 Problem Solving Applications: Mixed Review—pp. 80-81 3-14 Problem Solving Applications: Mixed Review—pp. 114-115 		agont in for each operation.

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Lesson 14	Find the Greatest Common Factor and Least Common Multiple—pp. 120–127	 Readiness Skills Update: Factors, Multiples, and Divisibility—p. 3 Instruction 6-5 Greatest Common Factor—pp. 186–187 *6-5A The Distributive Property and Common Factors— Online 6-6 Fractions in Simplest Form—pp. 188–189 6-9 Least Common Multiple—pp. 194–195 	6.NS.4 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. For example, express $36 + 8$ as 4 ($9 + 2$).
Lesson 15	Understand Positive and Negative Numbers and Opposites—pp. 128–135	Instruction 5-1 Integers—pp. 150–151 *5-1A Integers in the Real World—Online 5-2 Compare and Order Integers—pp. 152–153	6.NS.5 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.
		Instruction 5-1 Integers—pp. 150–151 5-2 Compare and Order Integers—pp. 152–153	6.NS.6a 6.NS.C.6a	Recognize opposite signs of numbers as indicating locations on opposite sides of 0 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.
Lesson 16	Locate Points with Rational Coordinates—pp. 136–143	Instruction 14-5 Graph Ordered Pairs—pp. 504–505 14-6 Graph Reflections and Translations—pp. 506–507	6.NS.6b 6.NS.C.6b	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 both axes.
		Instruction 5-1 Integers—pp. 150–151 5-2 Compare and Order Integers—pp. 152–153	6.NS.6c 6.NS.C.6c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of
		6-8 Fraction Sense—pp. 192–193 6-10 Compare Fractions—pp. 196–197		

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		 6-11 Order Fractions—pp. 198–199 6-12 Relate Fractions to Decimals—pp. 200–201 6-14 Rename Decimals as Fractions—pp. 204–205 6-16 Rational Numbers—pp. 208–209 6-17 Compare and Order Rational Numbers—pp. 210–211 		
		14-5 Graph Ordered Pairs—pp. 504–505		
Lesson 17	Numberspp. 144–1515-2 Compare and Order Integerspp. 152–1536-10 Compare Fractionspp. 196–197	6.NS.7a 6.NS.C.7a	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram.	
		6-10 Compare Fractions—pp. 196–197 6-11 Order Fractions—pp. 198–199 6-12 Relate Fractions to Decimals—pp. 200–201 6-16 Rational Numbers—pp. 208–209 6-17 Compare and Order Rational Numbers—pp. 210– 211		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.
		Instruction 5-1 Integers—pp. 150–151 5-2 Compare and Order Integers—pp. 152–153	6.NS.7b 6.NS.C.7b	Write, interpret, and explain statements of order for rational numbers in real-world contexts.
		*5-2A Use Reasoning to Compare and Order Rational Numbers—Online 5-9 Temperature—pp. 166–167		For example, write -3° C > -7° C to express the fact that -3° C is warmer than -7° C.
		6-10 Compare Fractions—pp. 196–197 6-11 Order Fractions—pp. 198–199 6-17 Compare and Order Rational Numbers—pp. 210– 211		
Lesson 18	Understand Absolute Value —pp. 152– 159	Instruction 5-1 Integers (absolute value)—pp. 150–151 5-2 Compare and Order Integers—pp. 152–153 *5-2A Use Reasoning to Compare and Order Rational Numbers—Online	6.NS.7c 6.NS.C.7c	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
		5-5 Multiply Integers—pp. 158–159 5-10 Problem Solving Strategy: Make a Table—pp. 168–169		For example, for an account balance of −30 dollars, write −30 = 30 to describe the size of the debt in dollars.

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		 Instruction 5-2 Compare and Order Integers—pp. 152–153 *5-2A Use Reasoning to Compare and Order Rational Numbers—Online 5-10 Problem Solving Strategy: Make a Table—pp. 168–169 	6.NS.7d 6.NS.C.7d	Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than –30 dollars represents a debt greater than 30 dollars.
Lesson 19	Problem Solving: The Coordinate Plane —pp. 160–167	Readiness 5-1 Integers (absolute value)—pp. 150–151 Instruction 14-5 Graph Ordered Pairs—pp. 504–505 *14-5A Distances and the Coordinate Plane—Online *14-5B Graphing Polygons—Online 14-10 Problem Solving Strategy: Use More Than One Strategy—pp. 514–515	6.NS.8 6.NS.C.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.
Unit 3: F Equation	ocus on Expressions and ns			
Lesson 20	Write and Evaluate Numerical Expressions with Exponents —pp. 174– 181	Instruction 1-3 Place Value and Exponents—pp. 38–39 2-5 Exponents—pp. 74–75 4-1 Order of Operations—pp. 122–123 *4-2A Expressions Involving Exponents—Online 4-3 Evaluate Algebraic Expressions—pp. 126–127 8-9 Order of Operations with Fractions—pp. 266–267	6.EE.1 6.EE.A.1	Write and evaluate numerical expressions involving whole-number exponents.
Lesson 21	Write Algebraic Expressions to Record Operations—pp. 182–189	 Instruction 1-10 Addition and Subtraction Expressions—pp. 52–53 3-10 Multiplication and Division Expressions—pp. 106–107 4-2 Translate Expressions—pp. 124–125 4-8 Use Formulas—pp. 136–137 	6.EE.2a 6.EE.A.2a	Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation "Subtract y from 5" as 5 – y.

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Lesson 22	Identify Parts of an Expression —pp. 190–197	Instruction 1-10 Addition and Subtraction Expressions—pp. 52–53 3-10 Multiplication and Division Expressions—pp. 106–107 *4-1A Expressions—Online	6.EE.2b 6.EE.A.2b	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. For example, describe the expression 2 (8 + 7) as a product of two factors; view (8 + 7) as
Lesson 23	Evaluate Algebraic Expressions—pp. 198–205	4-2 Translate Expressions—pp. 124–125 Instruction 1-11 Evaluate Addition and Subtraction Expressions—	6.EE.2c 6.EE.A.2c	Evaluate expressions at specific values of their variables. Include expressions that arise
	190 205	pp. 54–55 2-5 Exponents—pp. 74–75 3-11 Evaluate Multiplication and Division	0.EL.M.ZC	from formulas used in real-world probler Perform arithmetic operations, including those involving whole-number exponent in the conventional order when there are parentheses to specify a particular order
		Expressions—pp. 108–109 4-1 Order of Operations—pp. 122–123 *4-1A Expressions—Online 4-2 Translate Expressions—pp. 124–125		(Order of Operations). For example, use the formulas $V = s^3$ and $A = 6$ s^2 to find the volume and surface area of a cube with sides of length $s = 1/2$.
Lesson 24	Generate and Identify Equivalent Expressions—pp. 206–213	Readiness Skills Update: Properties of Addition and	6.EE.3 6.EE.A.3	Apply the properties of operations to generate equivalent expressions.
		Multiplication—p. 8 Instruction 4-2 Translate Expressions—pp. 124–125 *4-3B Simplify Expressions—Online 7-1 Addition Properties: Fractions—pp. 222–223		For example, apply the distributive property to the expression 3 (2 + x) to produce the equivalent expression 6 + 3 x ; apply the distributive property to the expression 24 x + 18 y to produce the equivalent expression 6 (4 y + 3 y); apply properties of operations to y + y + y to produce the equivalent expression 3 y .
		8-3 Properties of Multiplication—pp. 254–25		
		Instruction *4-3A Equivalent Expressions—Online	6.EE.4 6.EE.A.4	Apply the properties of operations to generate equivalent expressions.
				For example, apply the distributive property to the expression $3(2 + x)$ to produce the

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equivalent expression 6 + 3x; apply the

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				- continued from previous page – 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.
Lesson 25	Identify Solutions to Equations and Inequalities—pp. 214–221	Instruction 4-4 Equations and Inequalities—pp. 128–129 *4-4A Inequalities—Online Application Ch. 5 Enrichment: Inequalities in One Variable—p. 173	6.EE.5 6.EE.B.5	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.
Lesson 26	Write Algebraic Expressions to Represent Problems—pp. 222–229	 Instruction 1-10 Addition and Subtraction Expressions—pp. 52–53 1-11 Evaluate Addition and Subtraction Expressions—pp. 54–55 1-12 Problem Solving Strategy: Write an Equation—pp. 56–57 3-10 Multiplication and Division Expressions—pp. 106–107 3-11 Evaluate Multiplication and Division Expressions—pp. 108–109 4-2 Translate Expressions—pp. 124–125 4-3 Evaluate Algebraic Expressions—pp. 126–127 4-5 Addition Equations—pp. 130–131 4-6 Subtraction Equations—pp. 132–133 4-7 Multiplication and Division Equations—pp. 134–135 4-10 Problem Solving Strategy: Use More Than One Step—pp. 140–141 7-9 Addition and Subtraction Equations with Fractions—pp. 238–239 8-11 Multiplication and Division Expressions with Fractions—pp. 270–271 	6.EE.6 6.EE.B.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.

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		 8-12 Multiplication and Division Equations with Fractions—pp. 272–273 12-13 Problem Solving Strategy: Write an Equation— pp. 438–439 Application 4-11 Problem Solving Applications: Mixed Review— pp. 142–143 12-14 Problem Solving Applications: Mixed Review— pp. 440–441 		
Lesson 27 Lesson 28	Solve Equations of the Form <u>x</u> + p = q—pp. 230–237 Solve Equations of the Form px = q— pp. 238–245	 Instruction 1-12 Problem Solving Strategy: Write an Equation—pp. 56–57 4-2 Translate Expressions—pp. 124–125 4-3 Evaluate Algebraic Expressions—pp. 126–127 4-5 Addition Equations—pp. 130–131 4-6 Subtraction Equations—pp. 132–133 4-7 Multiplication and Division Equations—pp. 134– 135 *4-7A Write an Equation—Online 4-10 Problem Solving Strategy: Use More Than One Step—pp. 140–141 7-9 Addition and Subtraction Equations with Fractions—pp. 238–239 8-12 Multiplication and Division Equations with Fractions—pp. 272–273 Application 4-11 Problem Solving Applications: Mixed Review— pp. 142–143 	6.EE.7 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 29	Graph Solutions to Inequalities —pp. 246–253	Instruction *4-4A Inequalities—Online *4-4B Write Inequalities—Online	6.EE.8 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.

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	e Progress Mathematics, Grade 6	PROGRESS IN MATHEMATICS, GRADE 6		ORE STATE STANDARDS FOR MATHEMATICS, GRADE 6
				- continued from previous page – 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 30	Represent Relationships Between Variables—pp. 254–261	 Instruction 14-4 Functions and Ordered Pairs—pp. 502–503 *14-4A Independent and Dependent Variables—Online 14-8 Graph Functions—pp. 510–511 *14-8A Related Variables—Online 14-9 Algebraic Patterns—pp. 512–513 14-10 Problem Solving Strategy: Use More Than One Strategy—pp. 514–515 	6.EE.9 6.EE.C.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation d = 65t to represent the relationship between distance and time.
Unit 4: F	ocus on Geometry			
Lesson 31	Find Areas of Parallelograms and Triangles—pp. 268–275	Readiness Skills Update: Perimeter and Area of Rectangles—p. 25	6.G.1 6.G.A.1	Find the area of right triangles, other triangles, special quadrilaterals, and
Lesson 32	Find Areas of Polygons—pp. 276–283	Instruction 13-9 Area of Rectangles and Squares—pp. 464–465 13-10 Area of Triangles and Parallelograms—pp. 466– 467 13-11 Area of Trapezoids—pp. 468–469 *13-11A Plane Figures and Area—Online		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.

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Lesson 33	Find Volumes of Rectangular Prisms— pp. 284–291	Instruction 13-16 Volume of Prisms—pp. 478–479 *13-16A Use Partial Cubes to Find Volume—Online *13-16B Volume of a Prism—Online	6.G.2 6.G.A.2	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 $V = I w h$ and $V = b h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.
Lesson 34	Plot and Analyze Polygons in the Coordinate Plane—pp. 292–299	Instruction 14-5 Graph Ordered Pairs—pp. 504–505 *14-5B Graphing Polygons—Online 14-6 Graph Reflections and Translations—pp. 506–507 14-7 Graph Rotations—pp. 508–509	6.G.3 6.G.A.3	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.
Lesson 35	Use Nets to Find Surface Area—pp. 300–307	 Instruction 10-17 Solid Figures—pp. 362–363 *13-13A Use Nets to Find Surface Area—Online 13-14 Surface Area of Cubes, Rectangular Prisms, and Cylinders—pp. 474–475 13-15 Surface Area of Pyramids and Triangular Prisms—pp. 476–477 Blackline Masters: Nets—TE p. T54 	6.G.4 6.G.B.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
Unit 5: F Probabi	ocus on Statistics and lity			
Lesson 36	Understand Statistical Questions and Describe Data—pp. 314–321	Instruction *9-6A Statistical Characteristics of a Data Set—Online	6.SP.1 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.

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				For example, "How old am !?" 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.	
		 Instruction 9-5 Apply Measures of Central Tendency and Range— pp. 300–301 9-6 Analyze Data—pp. 302–303 *9-7A Describe Data—Online 9-8 Stem–and–Leaf Plots—pp. 306–307 	6.SP.2 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.	
Lesson 37	Find the Median and Interquartile Range—pp. 322–329	Instruction 9-5 Apply Measures of Central Tendency and Range— pp. 300–301 9-6 Analyze Data—pp. 302–303 *9-7A Describe Data—Online 9-8 Stem–and–Leaf Plots—pp. 306–307	6.SP.2 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.	
		 Instruction 9-5 Apply Measures of Central Tendency and Range— pp. 300–301 9-6 Analyze Data—pp. 302–303 *9-7A Describe Data—Online 	6.SP.3 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.	
Lesson 38	Find the Mean and Mean Absolute Deviation—pp. 330–337	 Instruction 9-5 Apply Measures of Central Tendency and Range— pp. 300–301 9-6 Analyze Data—pp. 302–303 *9-7A Describe Data—Online 	6.SP.3 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.	
Lesson 39	Display Numerical Data—pp. 338–345	 Instruction 9-5 Apply Measures of Central Tendency and Range— pp. 300–301 9-6 Analyze Data—pp. 302–303 9-7 Box–and–Whisker Plots—pp. 304–305 *9-7A Describe Data—Online 9-8 Stem–and–Leaf Plots—pp. 306–307 	6.SP.4 6.SP.B.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.	

COMMON CORE PROGRESS MATHEMATICS, GRADE 6		PROGRESS IN MATHEMATICS, GRADE 6	COMMON CORE STATE STANDARDS FOR MATHEMATICS, GRADE 6	
			6.SP.5 6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
Lesson 40	Summarize Numerical Data—pp. 346- 353	Instruction *9-3A Summarize the Data—Online 9-4 Record and Interpret Data—pp. 298–299 *9-7A Describe Data—Online 9-8 Stem–and–Leaf Plots—pp. 306–307 9-13 Histograms—pp. 316–317	6.SP.5a 6.SP.B.5a	Reporting the number of observations.
		Instruction *9-3A Summarize the Data—Online *9-7A Describe Data—Online	6.SP.5b 6.SP.B.5b	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.
		 Instruction 9-5 Apply Measures of Central Tendency and Range— pp. 300–301 9-6 Analyze Data—pp. 302–303 *9-6B Choosing the Best Measures to Describe Data— Online 9-7 Box–and–Whisker Plots—pp. 304–305 *9-7A Describe Data—Online 9-8 Stem–and–Leaf Plots—pp. 306–307 9-9 Line Graphs—pp. 308–309 	6.SP.5c 6.SP.B.5c	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.
		Application 9-16 Problem Solving Applications: Mixed Review— pp. 322–323		
		Instruction *9-6B Choosing the Best Measures to Describe Data— Online	6.SP.5d 6.SP.B.5d	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.