

		Student Book	Skill Builders
d.	Identify equivalences between fractions and decimals by connecting models to symbols.		
e.	Generate equivalent fractions and simplify fractions using models, pictures, and symbols.	BIII: 22	
	Objective 3: Model and illustrate meanings of multiplication and division of whole numbers and the addition and subtraction of fractions.		
a.	Model multiplication (e.g., equal-sized groups, rectangular arrays, area models, equal intervals on the number line), place value, and properties of operations to represent multiplication of a one- or two-digit factor by a two-digit factor and connect the representation to an algorithm.	Bll: 19-26, 38, 39	21-1, 21-6
b.	Use rectangular arrays to interpret factoring (e.g., find all rectangular arrays of 36 tiles and relate the dimensions of the arrays to factors of 36).		
c.	Demonstrate the mathematical relationship between multiplication and division and use that relationship to explain that division by zero is not possible.	BII: 44, 48	25-2, 25-4
d.	Represent division of a three-digit dividend by a one-digit divisor, including whole number remainders, using a variety of methods (e.g., rectangular arrays, manipulatives, pictures), and connect he representation to an algorithm.	BII: 66-71	27-1, 27-2
e.	Use models to add and subtract simple fractions where one single-digit denominator is 1, 2, or 3 times the other (e.g., $2/4 + 1/4$; $3/4 - 1/8$).	BIII: 19-22	33-1, 33-3
	Objective 4: Solve problems involving multiplication and division of whole numbers and addition and subtraction of simple fractions and decimals.		
а.	Use estimation, mental math, paper and pencil, and calculators to perform mathematical calculations and identify when to use each one appropriately.	Bll: 9, 12, 59, 79	10-6, 28-1
b.	Select appropriate methods to solve a single operation problem and estimate computational results or calculate them directly, depending on the context and numbers involved in a problem.	Bil: 70, 76	
C.	Write a story problem that relates to a given multiplication or division equation, and select and write a number sentence to solve a problem related to the environment.	Bll: 31, 57, 71	
d.	Solve problems involving simple fractions and interpret the meaning of the solution (e.g., A pie has been divided into six pieces and one piece is already gone. How much of the whole i.e. is there when Mary comes in? If Mary takes two pieces, how much of the whole pie has she taken? How much of the pie is left?).	BIII: 19-21	33-3

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	Objective 5: Compute problems involving multiplication and division of whole numbers and addition and subtraction of simple fractions and decimals.		
а.	Demonstrate quick recall of basic multiplication and division facts.	Bll: 18, 56	20-4, 20-6, 20-7, 25-5, 25-7, 25-9
b.	Multiply up to a three-digit factor by a two-digit factor with fluency, using efficient procedures.	BII: 30-39	21-7, 23-1
C.	Divide up to a three-digit dividend by a one-digit divisor with fluency, using efficient procedures.	BII: 62-69	27-2, 27-3
d.	Add and subtract decimals and simple fractions where one single-digit denominator is 1, 2, or 3 times the other (e.g., $2/4 + 1/4 = 3/4$; $1/3 - 1/6 = 1/6$).	Bill: 19-21, 25, 68	33-1, 33-3, 47-1
	STANDARD 2: STUDENTS WILL USE PATTERNS AND RELATIONS TO REPRESENT MATHEMATICAL PROBLEMS AND NUMBER RELATIONSHIPS.		
	Objective 1: Identify, analyze, and determine rules for describing numerical patterns involving operations and nonnumerical growing patterns.		
a.	Analyze growing patterns using objects, pictures, numbers, and tables to determine a rule for the pattern.	BI: 14, 16	
b.	Recognize, represent, and extend simple patterns involving multiples and other number patterns (e.g., square numbers) using objects, pictures, numbers, and tables.	BI: 16 BII: 13	3-1
C.	Identify simple relationships in real-life contexts and use mathematical operations to describe the pattern (e.g., the number of legs on a given number of chairs may be determined by counting by fours or by multiplying the number of chairs by 4).		
	Objective 2: use algebraic expressions, symbols, and properties of the operations to represent, simplify, and solve mathematical equations and inequalities.		
a.	Use the order of operations to evaluate, simplify, and compare mathematical expressions involving the four operations, parentheses, and the symbols <, >, and =(e.g., $2x (4 - 1) + 3$; of the two quantities 7 - (3 - 2) or (7 - 3) - 2, which is greater?).		
b.	Express single-operation problem situations as equations and solve the equation.	BI: 17	
C.	Recognize that a symbol represents the same number throughout an equation or expression.	BI: 39, 40 BII: 6, 8	9-1, 9-2
d.	Describe and use the commutative, associative, distributive, and identity properties of addition and multiplication, and the zero property of multiplication.		

		Student Book	Skill Builders
	STANDARD 3: STUDENTS WILL UNDERSTAND ATTRIBUTES AND PROPERTIES OF PLANE GEOMETRIC OBJECTS AND SPATIAL RELATIONSHIPS.		
	Objective 1: Identify and describe attributes of two-dimensional geometric shapes.		
a.	Name and describe lines that are parallel, perpendicular, and intersecting.	Bill: 36, 37	37-1
b.	Identify and describe right, acute, obtuse, and straight angles,		
c.	Identify and describe the radius and diameter of a circle.		
d.	Identify and describe figures that have line symmetry and rotational symmetry.	Bill: 38	38-1, 38-2
	Objective 2: Specify locations using grids and maps.		
a.	Locate coordinates in the first quadrant of a coordinate grid.	BII: 14	
b.	Give the coordinates in the first quadrant of a coordinate grid.	BII: 14	
c.	Locate regions on a map of Utah.		
d.	Give the regions of a position on a map of Utah.		
	Objective 3: Visualize and identify geometric shapes after applying transformations.		
a.	Identify a translation, rotation, or a reflection of a geometric shape.		
b.	Recognize that 90° , 180° , 270° , and 360° are associated, respectively, with $1/4$, $1/2$, $3/4$, and full turns.		
	STANDARD 4: STUDENTS WILL DESCRIBE RELATIONSHIPS AMONG UNITS OF MEASURE, USE APPROPRIATE MEASUREMENT TOOLS, AND USE FORMULAS TO FIND AREA MEASUREMENTS.		
	Objective 1: Describe relationships among units of measure for length, capacity, weight, and determine measurements of angles using appropriate tools.		
a.	Describe the relative size among metric units of length (I.e., millimeter, centimeter, meter), between metric units of capacity (I.e., milliliter, liter), and between metric units of weight (I.e., gram, kilogram).	Bill: 48, 55, 58, 59	45-1
b.	Describe the relative size among customary units of capacity (I.e., cup, pint, quart, gallon).	Bill: 53	44-2

		Student Book	Skill Builders
с.	Estimate and measure capacity using milliliters, liters, cups, pints, quarts, and gallons, and measure weight using grams and kilograms.	Bill: 53, 58, 59	45-2
d.	Recognize that angles are measured in degrees and develop		
	benchmark angles (e.g., 45° , 60° , 120°) using 90° angles to estimate angle measurement.		
e.	Measure angles using a protractor or angle ruler.		
	Objective 2: Recognize and describe area as a measurable attribute of two-dimensional shapes and calculate area measurements.		
a.	Quantify area by finding the total number of same-sized units of area needed to fill the region without gaps or overlaps.	BIII: 65, 67	46-3
b.	Recognize that a square that is 1 unit on a side is the standard unit for measuring area.	Bill: 65	
c.	Develop the area formula for a rectangle and connect it with the area model for multiplication.		
d.	Develop and use the area formula for a right triangle by comparing with the formula for a rectangle (e.g., two of the same right triangles make a rectangle).		
e.	Develop, use, and justify the relationships among area formulas of triangles and parallelograms by decomposing and comparing with areas of right triangles and rectangles.		
f.	Determine possible perimeters, in whole units, for a rectangle with a fixed area, and determine possible areas when given a rectangle with a fixed perimeter.		
	STANDARD 5: STUDENTS WILL INTERPRET AND ORGANIZE COLLECTED DATA TO MAKE PREDICTIONS, ANSWER QUESTIONS, AND DESCRIBE BASIC CONCEPTS OF PROBABILITY.		
	Objective 1: Collect, organize, and display data to answer questions.		
a.	Identify a question that can be answered by collecting data.	BIII: 74	
b.	Collect, read, and interpret data from tables, graphs, charts, surveys and observations.	BIII: 72-75	50-1, 50-2
C.	Represent data using frequency tables, bar graphs, line plots, and stem and leaf plots.	BIII: 74	
d.	Identify and distinguish between clusters and outliers of a data set.		
	Objective 2: Describe and predict simple random outcomes.		

		Student Book	Skill Builders
a.	Describe the results of experiments involving random outcomes as simple ratios (e.g., 4 out of 9, $4/9$).		50-4
b.	Conduct simple probability experiments, with and without replacement, record possible outcomes systematically, and display results in an organized way.	Bill: 79	50-4
C.	Use the results of simple probability experiments, with and without replacement, to describe the likelihood of a specific outcome in the future.	Bill: 76	