Everyday Mathematics



3rd Edition

Content Strand: Number and Numeration			
Program Goal	Content Thread	Grade-Level Goals	
Understand the Meanings, Uses, and Representations of Numbers	Place value and notation	Goal 1	Read and write whole numbers and decimals; identify places in such numbers and the values of the digits in those places; use expanded notation, number-and-word notation, exponential notation, and scientific notation to represent whole numbers and decimals.
	Meanings and uses of fractions	Goal 2	Solve problems involving percents and discounts; explain strategies used; identify the unit whole in situations involving fractions, decimals, and percents.
	Number theory	Goal 3	Use GCFs, LCMs, and divisibility rules to manipulate fractions.
Understand Equivalent Names for Numbers	Equivalent names for whole numbers	Goal 4	Apply the order of operations to numerical expressions to give equivalent names for rational numbers.
	Equivalent names for fractions, decimals, and percents	Goal 5	Find equivalent fractions and fractions in simplest form by applying multiplication and division rules and concepts from number theory; convert between fractions, mixed numbers, decimals, and percents.
Understand Common Numerical Relations	Comparing and ordering numbers	Goal 6	Choose and apply strategies for comparing and ordering rational numbers; explain those choices and strategies.



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Content Strand: Operations and Computation			
Program Goal	Content Thread	Grade-Level Goals	
Computes Accurately	Addition and subtraction procedures	Goal 1	Use mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the addition and subtraction of whole numbers, decimals, and signed numbers; describe the strategies used and explain how they work.
	Multiplication and division procedures	Goal 2	Use mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the multiplication and division of whole numbers, decimals, and signed numbers; describe the strategies used and explain how they work.
	Procedures for addition and subtraction of fractions	Goal 3	Use mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the addition and subtraction of fractions and mixed numbers; describe the strategies used and explain how they work.
	Procedures for multiplication and division of fractions	Goal 4	Use mental arithmetic, paper-and-pencil algorithms, and calculators to solve problems involving the multiplication and division of fractions and mixed numbers; describe the strategies used and explain how they work.
Make Reasonable Estimates	Computational estimation	Goal 5	Make reasonable estimates for whole number, decimal, fraction, and mixed number addition, subtraction, multiplication, and division problems; explain how the estimates were obtained.



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Content Strand: Operations and Computation (continued)			
Program Goal	Content Thread	Grade-Level Goals	
Understand Meanings of Operations	Models for the operations	Goal 6 Use ratios and scaling to model size changes and to solve size-change problems; represent ratios as fractions, percents, and decimals, and using a colon; model and solve problems involving part-to-whole and part-to-part ratios; model rate and ratio number stories with proportions; use and explain cross multiplication and other strategies to solve proportions.	

Content Strand: Data and Chance			
Program Goal	Content Thread	Grade-Level Goals	
Select and Create Appropriate Graphical Representations of Collected or Given Data	Data collection and representation	Goal 1 Collect and organize data or use given data to create bar, line, circle, and stem-and-leaf graphs with reasonable titles, labels, keys, and intervals.	
Analyze and Interpret Data	Data analysis	Goal 2 Use the minimum, range, median, mode, and mean and graphs to ask and answer questions, draw conclusions, and make predictions; compare and contrast the median and mean of a data set.	
Understand and Apply Basic Concepts of Probability	Quantitative probability	Goal 3 Use the Multiplication Counting Principle, tree diagrams, and other counting strategies to identify all possible outcomes for a situation; predict results of experiments, test the predictions using manipulatives, and summarize the findings; compare predictions based theoretical probability with experimental results; calculate probabilities and express them as fractions, decimals, and percents; explain how sample size affects results; use the results to predict future events.	



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Content Strand: Measurement and Reference Frames			
Program Goal	Content Thread	Grade-Level Goals	
Understand the Systems and Processes of Measurement; Use Appropriate Techniques, Tools, Units, and Formulas in Making	Length, weight, and angles	Goal 1	Estimate length with and without tools; measure length with tools to the nearest 1/16 inch and millimeter; estimate the measure of angles with and without tools; use tools to draw angles with given measures.
Formulas in Making Measurements	Area, perimeter, volume, and capacity	Goal 2	Choose and use appropriate formulas to calculate the circumference of circles and to solve area, perimeter, and volume problems.
Use and Understand Reference Frames	Coordinate systems	Goal 3	Use ordered pairs of numbers to name, locate, and plot points in all four quadrants of a coordinate grid.

Content Strand: Geometry			
Program Goal	Content Thread	Grade	e-Level Goals
Investigate Characteristics and Properties of Two- and Three-Dimensional Geometric Shapes	Lines and angles	Goal 1	Identify, describe, classify, name and draw angles; determine angle measures by applying properties of orientations of angles and of sums of angle measures in triangles and quadrangles.
	Plane and solid figures	Goal 2	Identify and describe similar and congruent figures and describe their properties; construct a figure that is congruent to another figure using a compass and straightedge.
Apply Transformations and Symmetry in Geometric Situations	Transformations and symmetry	Goal 3	Identify, describe, and sketch (including plotting on the coordinate plane) instances of reflections, translations, and rotations.



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Content Strand: Patterns, Functions, and Algebra			
Program Goal	Content Thread	Grade-Level Goals	
Understand Patterns and Functions	Patterns and functions	Goal 1 Extend, describe, and create numeric patterns; describe rules for patterns and use them to solve problems; represent patterns and rules using algebraic notation; represent functions using words, algebraic notation, tables, and graphs; translate from one representation to another and use representations to solve problems involving functions.	
Use Algebraic Notation to Represent and Analyze Situations and Structures	Algebraic notation and solving number sentences	Goal 2 Determine whether equalities and inequalities are true or false; solve open number sentences and explain the solutions; use a pan-balance model to solve linear equations in one or two unknowns; use trial-and-error and equivalent equation strategies to solve linear equations in one unknown.	
	Order of operations	Goal 3 Describe and apply the conventional order of operations.	
	Properties of the arithmetic operations	Goal 4 Describe and apply properties of arithmetic and multiplicative and additive inverses.	



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