

Mathematics Curriculum

Grade: 4

Standards	Month	Vocabulary	Operations
M (G&M) 4:7, 4:8	September	Polygons	Points, line segments, lines, rays
M (G&M) 4:1		Grids	Angles, triangles, quadrangles
M (G&M) 4:1		Plotting points	Parallelograms
M (G&M) 4:6, 4:10		Octagons	Polygons
M (G&M) 4:4, 4:5		Triangles	Drawing circles with a compass
M (G&M) 4:4, 4:5		Squares	Circle constructions
M (G&M) 4:3		Rectangles	Hexagon and triangle constructions
		Trapezoids	
		Hexagons	
		Circles	
	Parallelograms		
	Perpendicular		
M (N&O) 4:1	October	Maximum	Many names for numbers
M (N&O) 4:2		Minimum	Place value and whole numbers
M (F&A) 4:1		Median	Place value with a calculator
M (N&O) 4:8 (G&M) 4:9		Mode	Organizing and displaying data
M (DSP) 4:2, 4:6		Mean	The median
M (N&O) 4:1		Bar graph	Addition of multidigit numbers
M (G&M) 4:9 (DSP) 4:1, 2, 3		Digit	Displaying data with a bar graph
M (N&O) 4:3, 4:4, 4:6		Picture graphs	Subtraction of multidigit numbers
		Justify	
		Circle Graphs	
	Range		
M (N&O) 4:3	November	Factors	Multiplication facts
M (N&O) 4:3, 4:4		Product	Multiplication facts practice
M (N&O) 4:3, 4:4 (DSP) 4:1		Divisor	More multiplication facts practice
M (N&O) 4:3, 4:4		Quotient	Multiplication and division
M (DSP) 4:5		Dividend	Guide for solving number stories
M (F&A) 4:2		Sum	True or false number sentences
M (DSP) 4:5, 4:6		Difference	Parentheses in number sentences
M (F&A) 4:2, 4:3		Multiples	Open sentences
		Parentheses	
		Linear equations	
	Total		
	Symbol		
	Orders of operation		
M (N&O) 4:1, 4:2, 4:4	December	Compare	Decimal place value

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M (N&O) 4:1, 4:2, 4:4		Order	Comparing and ordering decimals
M (N&O) 4:1, 4:2, 4:4		Place Value	Estimating decimals
M (N&O) 4:1, 4:2, 4:4		Equivalent	Decimals addition and subtraction
M (N&O) 4:1, 4:2, 4:4		Unit of measure	Decimals in money
M (N&O) 4:1, 4:2, 4:4		Decimal	Thousandths
M (G&M) 4:7		Meter	Metric units of length
M (G&M) 4:7		Greater than	Personal reference metric units of length
M (G&M) 4:7		Less than	Measuring in millimeters
		Equal to	
		Length	
M (N&O) 4:1, 4:2	January	Repeated addition	Extended multiplication facts
M (N&O) 4:7		Estimate	Estimating sums
M (N&O) 4:7		Round	Estimating products
M (N&O) 4:3		Line plot	Partial product multiplication
M (N&O) 4:3		Picture graph	Lattice multiplication
M (N&O) 4:1		Exponents	Big numbers
M (F&A) 4:3			Powers of ten
M (N&O) 4:1, 4:2			Rounding and reporting large numbers
M (DSP) 4:3			Comparing data
M (DSP) 4:1 M (N&O) 4:3	February	Remainder	Multiplication and division number stories
M (N&O) 4:3		Coordinate	Strategies for division
M (N&O) 4:3		Grid	Partial quotients division
M (N&O) 4:3		Ordered pairs	Expressing and interpreting remainders
M (G&M) 4:1, 4:4		Degree	Rotations and angles
M (G&M) 4:1, 4:4		Rotation	Using full circle protractor
M (G&M) 4:1, 4:4		Angle	Using half circle protractor
M (G&M) 4:5 (DSP) 4:1		Flips	Coordinate grid maps
M (G&M) 4:5 (DSP) 4:1		Slides	Global coordinate grid system
M (N&O) 4:3		Turns	Partial quotient division algorithm
		Congruence	
		Faces	
		Edges	
		Vertices	
		Sides	
M (N&O) 4:1, 4:2, 4:3	March	Whole numbers	Basic fraction concepts
M (F&A) 4:2, 4:4		Probability	Fraction of sets
M (DSP) 4:4, 4:5, 4:6		Outcome	Probabilities when outcomes are equally likely
M (N&O) 4:1, 4:3		Numerator	Pattern block fractions
M (N&O) 4:1, 4:3, 4:6		Denominator	Fraction addition and subtraction
M (F&A) 4:4		Simplest Form	Names for fractions

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M (F&A) 4:4		Probability	Equivalent fractions
M (N&O) 4:2, 4:3 (F&A) 4:2, 4:4		Likely, Equally Likely	Fractions and decimals
M (N&O) 4:2, 4:3 (F&A) 4:1		Unlikely, 50-50, More than likely	Comparing fractions
M (N&O) 4:1		Draw conclusion	The “one” for fractions
M (DSP) 4:4, 4:5, 4:6		Analyze	Probability, fractions, and spinners
		List	
		Tables	
		Diagrams	
		Proper, improper fractions	
M (G&M) 4:1, 4:3, 4:4, 4:5, 4:6, 4:7, 4:9, 4:10, (DSP) 4:3	April	Area	Kitchen layouts and perimeter
M (DSP) 4:2 (G&M) 4:7, 4:9, 4:10		Formula	Scale Drawings
M (G&M) 4:1, 4:3, 4:6, 4:7, 4:9		Scale	Area
M (N&O) 4:7, (G&M) 4:7		Perimeter	Finding the area of my skin
M (G&M) 4:5, 4:6		Square Units	Formula for the area of a rectangle
M (N&O) 4:2, 4:4 (G&M) 4:1, 4:6		Conversions	Formula for the area of a parallelogram
M (G&M) 4:1, 4:4, 4:5, 4:7 M (N&O) 4:4		Similar	Area of a triangle
M (F&A) 4:3 (N&O) 4:2		Simplify	Geographical area measurements
M (N&O) 4:1, 4:2, 4:3, 4:4	May	Percent	Fractions, decimals, and percents
M (N&O) 4:2 (F&A) 4:2, 4:3, 4:4		Convert	Converting fractions to decimals and percents
M (N&O) 4:2 (F&A) 4:1, 4:2, 4:4		Result	Using a calculator to convert fractions to decimals
M (N&O) 4:1, 4:2, 4:4		Model	Using a calculator to rename fractions as percents
M (N&O) 4:2		Predict	Conversions among fractions, decimals, and percents
M (N&O) 4:2 (F&A) 4:2 (DSP) 4:1			Comparing the results of a survey
M (DSP) 4:1, 4:2, 4:3 (F&A) 4:1			Comparing population data
M (N&O) 4:2, 4:3, 4:4 (F&A) 4:3			Multiplication of decimals
M (N&O) 4:2, 4:3, 4:7			Division of decimals
M (G&M) 4:3, 4:4, 4:9, 4:10	June	Solid	Explorations with a transparent mirror
M (G&M) 4:1, 4:3, 4:4, 4:9		Transparent	Finding lines of reflection

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M (G&M) 4:3, 4:4, 4:7		Volume	Properties of reflections
M (G&M) 4:1, 4:5, 4:9, 4:10		Prism	Line symmetry
M (G&M) 4:3, 4:4		Weight	Frieze Patterns
M (G&M) 4:3, 4:5, 4:9, 4:10 (F&A) 4:2		Mass, Grams, Ounce	Positive and negative numbers
M (G&M) 4:3, 4:7 (F&A) 4:7		Capacity, Liter	Weight
M (G&M) 4:1, 4:4, 4:5, 4:10		Rate	Geometric solids
M (G&M) 4:1, 4:3, 4:4, 4:5		Table	Constructing geometric solids
M (N&O) 4:3, 4:4 (G&M) 4:7		Credits	Volume explorations
M (N&O) 4:3, 4:4 (G&M) 4:7 (F&A) 4:2		Debts	Formula for volume of rectangular prisms
M (F&A) 4:3			Subtraction of positive and negative numbers
M (N&O) 4:1, 4:3 (G&M) 4:7, 4:9			Capacity and weight
M (N&O) 4:3 (DSP) 4:2, 4:3, 4:4			Introducing rates
M (N&O) 4:3 (DSP) 4:2, 4:3, 4:4			Solving rate problems
M (N&O) 4:3 (DSP) 4:2, 4:3, 4:4			Converting rates
M (N&O) 4:3 (DSP) 4:2, 4:3, 4:4			Comparison shopping