

SCOPE AND SEQUENCE GRADE 5

Chapter		Lesson	Objective	
Ch1	Multiplying Whole Numbers	Lesson 1	Understanding Place Value	read and write multi-digit numbers in different forms
		Lesson 2	Place Value Through Millions	multiply and divide a multi-digit number by 10, 100 and 1000
		Lesson 3	Multiplying by Powers of 10	explain patterns in the number of zeros of the product when multiplying a number by powers of 10
		Lesson 4	Estimate Products	estimate product using rounding and compatible numbers
		Lesson 5	Multiply Using the Distributive Property	multiply using distributive property
		Lesson 6	Multiply Using Partial Products	multiply by using partial products
		Lesson 7	Multiply by 1-Digit Numbers	fluently multiply multi-digit whole numbers by 1-digit numbers using the standard algorithm
		Lesson 8	Multiply by 2-Digit Numbers	fluently multiply multi-digit whole numbers by 2-digit numbers using the standard algorithm
		Lesson 9	Problem-Solving Strategies	use the problem solving strategy to solve word problem concerning multiplying whole numbers
Ch2	Dividing Whole Numbers	Lesson 1	Dividing by Multiples of 10	divide whole numbers with up to four-digit dividends by multiples of 10
		Lesson 2	Estimate Quotient	estimate the quotient of two whole numbers
		Lesson 3	Divide Using the Distributive Property	divide two whole numbers using distributive property
		Lesson 4	Divide Using Partial Quotients	divide two whole numbers using partial quotients and area model
		Lesson 5	Divide by a 1-Digit Number	divide whole numbers with up to four digits by 1-digit numbers
		Lesson 6	Divide by a 2-Digit Number	divide whole numbers with up to four digits by 2-digit numbers
		Lesson 7	Problem-Solving Strategies	use the problem solving strategy to solve word problems concerning dividing whole numbers with up to four digits by 2-digit numbers
Ch3	Decimals	Lesson 1	Reading and Writing Decimals	students will read and write decimals in different forms
		Lesson 2	Relate Decimals to Fractions	convert the decimals into fractions
		Lesson 3	Place Value to Decimals	recall the place values after multiplying and dividing by 10, 100 and 1000
		Lesson 4	Compare Decimals	compare two decimals to thousandths using symbols

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Vocabulary	CCSS	Mathematical Practice
place value chart, million, standard form, expanded form, word form	5.NBT.1	MP.1, MP.2, MP.7, MP.8
	5.NBT.1	MP.1, MP.2, MP.7, MP.8
repeated multiplication, exponential form, powers of 10, base, exponent	5.NBT.2	MP.1, MP.2, MP.7, MP.8
estimate products, compatible numbers, rounding	5.NBT.5	MP.1, MP.2, MP.7, MP.8
distributive property, area model	5.NBT.5	MP.1, MP.2, MP.7, MP.8
partial products	5.NBT.5	MP.1, MP.2, MP.7, MP.8
algorithm	5.NBT.5	MP.1, MP.2, MP.7, MP.8
	5.NBT.5	MP.1, MP.2, MP.7, MP.8
	5.NBT.5	MP.1, MP.2, MP.7, MP.8
	5.NBT.6	MP.1, MP.2, MP.7, MP.8
estimate quotients, compatible numbers	5.NBT.6	MP.1, MP.2, MP.7, MP.8
distributive property, area model	5.NBT.6	MP.1, MP.2, MP.7, MP.8
partial quotients	5.NBT.6	MP.1, MP.2, MP.7, MP.8
	5.NBT.6	MP.1, MP.2, MP.7, MP.8
	5.NBT.6	MP.1, MP.2, MP.7, MP.8
	5.NBT.6	MP.1, MP.2, MP.7, MP.8
decimal, decimal point, hundredth, tenth, thousandth, equivalent decimals	5.NBT.3	MP.6, MP.7, MP.8
decimal, fraction	5.NBT.3a	MP.6, MP.7, MP.8
	5.NBT.1, 5.NBT.3a	MP.6, MP.7, MP.8
compare	5.NBT.3b	MP.6, MP.7, MP.8

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Chapter		Lesson		Objective
Ch3	Decimals	Lesson 5	Order Decimals	compare decimals to thousandths using symbols
		Lesson 6	Rounding Decimals	round to the nearest whole, tenth and hundredths
		Lesson 7	Problem-Solving Strategies	use the problem solving strategy to solve word problem concerning decimals
Ch4	Add and Subtract Decimals	Lesson 1	Estimate Sums	estimate sum using rounding or front-end estimation
		Lesson 2	Add Decimals Using Models	adding decimals using models and estimate to check addition
		Lesson 3	Add Decimals Using Base-Ten Blocks	adding decimals using base ten blocks
		Lesson 4	Add Decimals Using Algorithms	adding decimals using algorithms
		Lesson 5	Estimate Differences	estimate differences using front-end and rounding
		Lesson 6	Subtract Decimals Using Models	subtract decimals using models
		Lesson 7	Subtract Decimals Using Base-Ten Blocks	subtract decimals using base-ten blocks
		Lesson 8	Subtract Decimals Using Algorithms	subtract decimals using algorithms
		Lesson 9	Problem-Solving Strategies	use the problem solving strategy to solve word problem concerning adding and subtracting decimals to hundredths
Ch5	Multiply and Divide Decimals	Lesson 1	Estimate Products	estimate products
		Lesson 2	Multiply Decimals by Whole Numbers	multiply and divide decimals to hundredths by whole numbers
		Lesson 3	Multiplying Decimals by Decimals	multiply and divide decimals to hundredths by a decimal
		Lesson 4	Multiply Decimals Using Algorithms	multiply decimals to hundredths using algorithm
		Lesson 5	Multiplying Decimals by Power of Ten	explain patterns in the placement of the decimal point when a decimal is multiplied by a power of 10
		Lesson 6	Estimate Quotients	estimate quotients
		Lesson 7	Dividing Decimals by Whole Numbers	divide decimals to hundredths by whole numbers
		Lesson 8	Divide Decimals Using models	divide decimals to hundredths by decimals

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	Vocabulary	CCSS	Mathematical Practice
	order	5.NBT.3b	MP.6, MP.7, MP.8
	rounding	5.NBT.4	MP.6, MP.7, MP.8
		5.NBT.3, 5.NBT.4	MP.6, MP.7, MP.8
	estimate ums, rounding, front- end estimation	5.NBT.7	MP.6, MP.7, MP.8
		5.NBT.7	MP.6, MP.7, MP.8
	place value, base-ten blocks	5.NBT.7	MP.6, MP.7, MP.8
	algorithms	5.NBT.7	MP.6, MP.7, MP.8
	estimate differences, front- end estimation	5.NBT.7	MP.6, MP.7, MP.8
		5.NBT.7	MP.6, MP.7, MP.8
		5.NBT.7	MP.6, MP.7, MP.8
		5.NBT.7	MP.6, MP.7, MP.8
	estimate products, rounding, compatible numbers	5.NBT.7	MP.6, MP.7, MP.8
		5.NBT.7	MP.6, MP.7, MP.8
	area model	5.NBT.7	MP.6, MP.7, MP.8
	algorithm	5.NBT.7	MP.6, MP.7, MP.8
		5.NBT.2, 5.NBT.7	MP.6, MP.7, MP.8
	estimate quotients	5.NBT.7	MP.6, MP.7, MP.8
	base ten blocks	5.NBT.7	MP.6, MP.7, MP.8
		5.NBT.7	MP.6, MP.7, MP.8

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Chapter		Lesson		Objective
Ch5	Multiply and Divide Decimals	Lesson 9	Divide Decimals Using Algorithms	divide decimals to hundredths by decimals using algorithms
		Lesson 10	Dividing Decimals by Powers of 10	explain patterns in the placement of the decimal point when a decimal is divided by a power of 10
		Lesson 11	Problem-Solving Strategies	use the problem solving strategy to solve word problems concerning multiply and divide decimals to hundredths
Ch6	Add and Subtract Fractions	Lesson 1	Equivalent Fractions	replacing given fractions with equivalent fractions
		Lesson 2	Add Like Fractions	add fractions with like denominators then simplify the sum
		Lesson 3	Adding Unlike Fractions Using Models	add fractions with different denominators using models
		Lesson 4	Adding Unlike Fractions	add fractions with unlike denominators then simplify the sum
		Lesson 5	Adding Mixed Numbers Using Models	adding mixed numbers using models
		Lesson 6	Adding Mixed Numbers	add mixed numbers then simplify the sum
		Lesson 7	Subtracting Like Fractions	subtract fractions with equal denominators then simplify the sum
		Lesson 8	Subtracting Unlike Fractions Using Models	subtract fractions with different denominators using models
		Lesson 9	Subtracting Unlike Fractions	subtract fractions with different denominators then simplify the sum
		Lesson 10	Subtracting Mixed Numbers Using Models	subtracting mixed numbers using models
		Lesson 11	Subtracting Mixed Numbers	subtract mixed numbers then simplify the difference
		Lesson 12	Estimate Sums and Differences	estimate the sum and difference of fractions by rounding the fractions to a benchmark
		Lesson 13	Problem-Solving Strategies	use the problem solving strategy to solve word problem concerning addition and subtraction of fractions referring to the same whole including cases of unlike denominators
Ch7	Multiply and Divide Fractions	Lesson 1	Parts of a Whole	interpret multiplication using repeated addition
		Lesson 2	Interpreting Multiplication as Resizing	interpret multiplication as resizing
		Lesson 3	Multiplying a Whole Number by a Fraction	multiply a whole number by a fraction
		Lesson 4	Multiplying a Fraction by a Fraction	multiply a fraction by a fraction

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Vocabulary	CCSS	Mathematical Practice
	5.NBT.7	MP.6, MP.7, MP.8
	5.NBT.2, 5.NBT.7	MP.6, MP.7, MP.8
	5.NBT.7	MP.6, MP.7, MP.8
equivalent fractions, simplify, greatest common factors	5.NF.1	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
like fractions, numerator, denominator, simplify.	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
unlike fractions	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
mixed numbers	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
improper fractions	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
bench mark fractions	5.NF.1, 5.NF.2	MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.1, 5.NF.2	5.NF.1, 5.NF.2MP.2, MP.3, MP.4, MP5, Mp6, MP.7
	5.NF.4	MP.2, MP.3, MP.4, MP.5
scaling factor	5.NF.4a, 5.NF.4b	MP.2, MP.3, MP.4, MP.5
	5.NF.4, 5.NF.5	MP.2, MP.3, MP.4, MP.5
area model	5.NF.4, 5.NF.6	MP.2, MP.3, MP.4, MP.5

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Chapter		Lesson	Objective	
Ch7	Multiply and Divide Fractions	Lesson 5	Multiplying a Fraction by a Mixed Number	multiply a fraction by a mixed number
		Lesson 6	Multiplying Mixed Numbers	multiply mixed numbers using area model and algorithm
		Lesson 7	Relating Area to Fractions	apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction in finding the area of rectangles
		Lesson 8	Multiplying Decimals and Fractions	multiply two decimals relating to fraction
		Lesson 9	Relating Fractions and Division	interpret a fraction as division of the numerator by the denominator
		Lesson 10	Dividing Unit Fractions by a Whole Number	apply and extend previous understandings of division to divide unit fractions by whole numbers
		Lesson 11	Dividing a Whole Number by a Unit Fraction	apply and extend previous understandings of division to divide whole numbers by unit fractions
		Lesson 12	Relating Decimals to Fraction Division	divide two decimals to hundredths relating to fractions division
		Lesson 13	Problem-Solving Strategies	use the problem-solving strategy to solve word problems concerning multiplying and dividing two fractions
Ch8	Expression, Patterns and Coordinates	Lesson 1	Evaluating Numerical Expressions	evaluating numerical expressions using rules of order of operation
		Lesson 2	Writing Expressions	writing simple expressions that record calculations with numbers and interpret numerical expressions without evaluating
		Lesson 3	Coordinate Planes	define the coordinate system then graph and label certain ordered pairs
		Lesson 4	Graphing Ordered Pairs	represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane
		Lesson 5	Numerical Patterns	generate two numerical patterns using two given rules
		Lesson 6	Graphing Patterns	identify relationships between corresponding terms of a pattern graph the ordered pairs in coordinate plane
		Lesson 7	Problem-Solving Strategies	use the problem solving strategy to solve word problem concerning expression, patterns, and coordinates
Ch9	Measurement and Data	Lesson 1	Converting Customary Units of Length	convert customary units of length
		Lesson 2	Converting Customary Units of Weight	convert customary units of weight
		Lesson 3	Converting Customary Units of Capacity	convert customary units of capacity
		Lesson 4	Converting Metric Units of Length	convert the metric units of measuring length

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Vocabulary	CCSS	Mathematical Practice
	5.NF.4, 5.NF.6	MP.2, MP.3, MP.4, MP.5
	5.NF.4, 5.NF.6	MP.2, MP.3, MP.4, MP.5
	5.NF.4, 5.NF.6	MP.2, MP.3, MP.4, MP.5
	5.NF.4, 5.NF.7	MP.2, MP.3, MP.4, MP.5
dividend, divisor, quotient	5.NF.3	MP.2, MP.3, MP.4, MP.5
unit fraction	5.NF.7a, 5.NF.7c	MP.2, MP.3, MP.4, MP.5
	5.NF.7a, 5.NF.7c	MP.2, MP.3, MP.4, MP.5
	5.NF.7, 5.NBT.7	MP.2, MP.3, MP.4, MP.5
	5.NF.3, 5.NF.4, 5.NF.5, 5.NF.6, 5.NF.7	MP.2, MP.3, MP.4, MP.5
expression, parentheses, brackets, braces, evaluate, order of operations	5.OA.1	MP.1, MP.2, MP.3, MP.6, MP.7
	5.OA.2	MP.1, MP.2, MP.3, MP.6, MP.7
coordinate plane, origin, x-axis, y-axis, ordered pair, coordinate pair	5.G.1	MP.1, MP.2, MP.3, MP.6, MP.7
	5.G.2	MP.1, MP.2, MP.3, MP.6, MP.7
numerical pattern	5.OA.3	MP.1, MP.2, MP.3, MP.6, MP.7
line graph	5.OA.3, 5.G.2	MP.1, MP.2, MP.3, MP.6, MP.7
	5.OA, 5G	MP.1, MP.2, MP.3, MP.6, MP.7
customary units, convert, inch, foot, yard mile	5.MD.1	MP.1, MP.2, MP.3, MP.7, MP.8
convert customary units of weight	5.MD.1	MP.1, MP.2, MP.3, MP.7, MP.8
capacity, fluid, cup, pint, quart, gallon	5.MD.1	MP.1, MP.2, MP.3, MP.7, MP.8
metric system, kilometer, meter, centimeter, millimeter	5.MD.1	MP.1, MP.2, MP.3, MP.7, MP.8

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Chapter		Lesson		Objective
Ch9	Measurement and Data	Lesson 5	Converting Metric Units of Mass	convert metric units of mass
		Lesson 6	Converting Metric Units of Capacity	convert metric units of capacity
		Lesson 7	Converting Units of Time	convert units of time
		Lesson 8	Representing Data in a Line Plot	make a line plot to display a data set of measurements in fractions of a unit use operations on fractions to solve problems involving information presented in line plots
		Lesson 9	Problem-Solving Strategies	use the problem solving strategy to solve word problem concerning converting among different sized standard measurement units within a given measurement system and operations on fractions involving information presented in line plots
Ch10	Geometry	Lesson 1	Classifying Triangles	classify triangles according to side lengths and to the angles
		Lesson 2	Classifying Quadrilaterals	classify the quadrilaterals according to their attributes
		Lesson 3	Classifying Polygons	classify the polygons according to their number of sides, differentiate between regular and irregular polygons
		Lesson 4	3-D Figures	classify 3-D figures
		Lesson 5	Finding Volume Using Models	recognize volume as an attribute of solid figures and understand concepts of volume measurement
		Lesson 6	Volume of Prisms	apply the formulas $v = l \times w \times h$ and $v = b \times h$ for rectangular prisms to find volumes of right rectangular prisms
		Lesson 7	Volume of Composite Figures	apply the formulas $v = l \times w \times h$ and $v = b \times h$ for rectangular prisms to find volumes of composite figures
		Lesson 8	Problem-Solving Strategies	use the problem solving strategy to solve word problem concerning classifying 2-D figures into categories based on their properties, 3-D figures, understanding concepts of volume, and relate volume to multiplication and addition

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Vocabulary	CCSS	Mathematical Practice
mass, milligram, gram, kilogram	5.MD.1	MP.1, MP.2, MP.3, MP.7, MP.8
capacity, milliliter, liter	5.MD.1	MP.1, MP.2, MP.3, MP.7, MP.8
time, hour, minute, second, week, day, month, year, leap year	5.MD.1	MP.1, MP.2, MP.3, MP.7, MP.8
line plot, average	5.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
	5.MD.1, 5.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
right triangle, acute triangle, obtuse triangle, equilateral triangle, isosceles triangle, scalene triangle.	5.G.3	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8
quadrilateral, kite trapezoid, parallelogram, rectangle, rhombus, square, venn diagram	5.G.3, 5.G.4	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8
polygon, pentagon, hexagon, regular polygon, irregular polygon	5.G.3, 5.G.4	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8
polyhedron, face, edge, vertex, base, prism, pyramid, cylinder, cone, sphere, congruent, dimension	5.MD.3	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8
volume, cubic unit, cubic cm	5.MD.3, 5.MD.4	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8
length, width, height, dimensions	5.MD.5a, 5.MD.5b	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8
composite figures	5.MD.5b, 5.MD.5c	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8
	5.G.3, 5.G.4, 5.MD.3, 5.MD.4, 5.MD.5	MP.1, MP.2, MP.3, MP.4, MP.6, MP.7, MP.8