

# SCOPE AND SEQUENCE GRADE 4

Chapter		Lesson	Objective	
Ch1	Multi-Digit Numbers	Lesson 1	Place Value	recognize the place value of each digit, multiplying by 10 move the number place to the left, dividing by 10 move the number place to the right
		Lesson 2	Read and Write Multi- Digit Numbers	read and write multi-digit numbers
		Lesson 3	Compare Two Multi-Digit Numbers	compare two multi-digit numbers, order set of numbers from least to greatest and vice versa
		Lesson 4	Rounding Multi-Digit Numbers	rounding multi-digit whole numbers to any place
		Lesson 5	Add Mentally	add mentally using different strategies
		Lesson 6	Subtract Mentally	subtract mentally using different strategies
		Lesson 7	Estimate Sums and Differences of Whole Numbers	estimate the sum or differences using different strategies
		Lesson 8	Add Whole Numbers	add whole numbers up to 5-digit numbers
		Lesson 9	Subtract Whole Numbers	subtract whole numbers up to 5-digit numbers
		Lesson 10	Problem-Solving Strategies	solve multistep word problems posed with whole numbers and having whole-number answers using the four operations
Ch2	Numbers and Patterns	Lesson 1	Multiples	finding the multiples for the numbers from 1 to 10, finding the lowest common multiple of any two numbers
		Lesson 2	Factors	finding the factor for a whole number in the range 1-100, finding the highest common multiple of any two numbers
		Lesson 3	Prime and Composite Numbers	determine whether a given whole number in the range 1-100 is prime or composite
		Lesson 4	Geometric Patterns	generate a shape pattern that follows a given rule
		Lesson 5	Numerical Patterns	generate a number pattern that follows a given rule
		Lesson 6	Finding a Sequence	writing sequence from rule
		Lesson 7	Finding the Rule	identify apparent features of the pattern that were not explicit in the rule itself
		Lesson 8	Problem-Solving Strategies	solve word problem concerning generating a number or shape pattern that follows a given rule identify apparent features of the pattern that were not explicit in the rule itself
Ch3	Multiplication	Lesson 1	Multiplicative Comparison	interpret a multiplication equation as a comparison
		Lesson 2	Multiplying by Multiples of 10, 100 And 1,000	Multiplying by Multiples of 10, 100 And 1,000

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Vocabulary	CCSS	Mathematical Practice
ten thousand, hundred thousand, millions, place value	4.NBT.1	MP.1, MP.2, MP.3, MP.5, MP.6
multi-digit number, standard form, expanded form, word form	4.NBT.2	MP.1, MP.2, MP.3, MP.5, MP.6
	4.NBT.2	MP.1, MP.2, MP.3, MP.5, MP.6
rounding, nearest	4.NBT.3	MP.1, MP.2, MP.3, MP.5, MP.6
add mentally, front-end addition, break up and bridge, compensation for adding	4.NBT.4	MP.1, MP.2, MP.3, MP.5, MP.6
subtract mentally, compensation for subtraction	4.NBT.4	MP.1, MP.2, MP.3, MP.5, MP.6
estimate	4.OA.3	MP.1, MP.2, MP.3, MP.5, MP.6
regroup	4.NBT.4, 4.OA.3	MP.1, MP.2, MP.3, MP.5, MP.6
	4.NBT.4, 4.OA.3	MP.1, MP.2, MP.3, MP.5, MP.6
	4.OA.3	MP.1, MP.2, MP.3, MP.5, MP.6
multiple, common multiple, skip count, even numbers	4.OA.4	MP.2, MP.4, MP.5, MP.8
factors, factor pair, common factor, highest common factor	4.OA.4	MP.2, MP.4, MP.5, MP.8
prime number, composite number	4.OA.4	MP.2, MP.4, MP.5, MP.8
pattern, geometric pattern	4.OA.5	MP.2, MP.4, MP.5, MP.8
numerical pattern, sequence	4.OA.5	MP.2, MP.4, MP.5, MP.8
term, feature	4.OA.5	MP.2, MP.4, MP.5, MP.8
rule	4.OA.5	MP.2, MP.4, MP.5, MP.8
	4.OA.5	MP.2, MP.4, MP.5, MP.8
multiplicative comparison, additive comparison	4.OA.1	MP.1, MP.2, MP.3, MP.4, MP.7
multiples	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7

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Chapter		Lesson	Objective			
Ch3	Multiplication	Lesson 3	Estimate Products	estimate products using rounding, compatible numbers and front-end estimation		
		Lesson 4	Multiply Using Distributive Property	multiply using distributive property and expanded form		
		Lesson 5	Multiply a 2-Digit Number by a 1-digit Number with Regrouping	multiply 2-digit number by a 1-digit number using algorithm		
		Lesson 6	Multiply a Multi-Digit Number by a 1-Digit Number with Regrouping	multiply multi-digit number by a 1-digit number using algorithm		
		Lesson 7	Problem-Solving Strategies	use the problem-solving strategies to solve word problems concerning multiplication		
		Lesson 8	Multiplying by Whole Tens	multiply 2-digit numbers by whole tens		
		Lesson 9	Multiply Two 2-Digit Numbers Using Distributive Property	multiply two 2-digit numbers using the distributive property		
		Lesson 10	Multiply Using Distributive Property and Area Models	multiply 2-digit by 2-digit numbers using the distributive property and area models		
		Lesson 11	Multiply Using Partial Products and Area Models	multiply 2-digit by 2-digit numbers using partial products and area models		
		Lesson 12	Multiply Two 2-Digit Numbers with Regrouping	multiply 2-digit by 2-digit numbers using algorithm		
		Lesson 13	Problem-Solving Strategies	use the problem-solving strategies to solve word problems concerning multiplying whole numbers		
		Ch4	Division	Lesson 1	Divisibility Rules	apply the divisibility rules
				Lesson 2	Divide Multiples of 10, 100, and 1,000	divide multiples of 10, 100 and 1,000 by a 1-digit whole number
Lesson 3	Estimate Quotients			estimate the quotient and see if answer is reasonable		
Lesson 4	Divide with Remainders			find whole number quotients and remainders with 2-digit dividends and one-digit divisors		
Lesson 5	Interpreting Remainders			interpret the remainders in different ways		
Lesson 6	Divide Using Distributive Property and Area Models			find whole number quotients with up to 3-digit dividends and 1-digit divisors using distributive property and area models		
Lesson 7	Divide Using Partial Quotients			find whole number quotients with up to 3-digit dividends and 1-digit divisors using partial quotients		
Lesson 8	Digit-by-Digit Division			find whole number quotients with up to 3-digit dividends and 1-digit divisors using algorithm		
Lesson 9	Divide Large Numbers			find whole number quotients with 4-digit dividends and 1-digit divisors using algorithm		

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Vocabulary	CCSS	Mathematical Practice
	4.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
distributive property	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
regrouping	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
	4.OA.3	MP.1, MP.2, MP.3, MP.4, MP.7
whole tens	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
area model	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
partial products	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
algorithm	4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
	4.OA.3, 4.NBT.5	MP.1, MP.2, MP.3, MP.4, MP.7
divisibility, remainder	4.NBT.6	MP.2, MP.4, MP.5, MP.8
	4.NBT.6	MP.2, MP.4, MP.5, MP.8
	4.OA.3	MP.2, MP.4, MP.5, MP.8
remainder	4.NBT.6	MP.2, MP.4, MP.5, MP.8
	4.OA.3	MP.2, MP.4, MP.5, MP.8
	4.NBT.6	MP.2, MP.4, MP.5, MP.8
partial quotients	4.NBT.6	MP.2, MP.4, MP.5, MP.8
	4.NBT.6	MP.2, MP.4, MP.5, MP.8
	4.NBT.6	MP.2, MP.4, MP.5, MP.8

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Chapter		Lesson		Objective
Ch4	Division	Lesson 10	Order of Operations	find the value of any set of operation using the order of operation
		Lesson 11	Problem-Solving Strategies	use the problem-solving strategies to solve word problems concerning whole numbers and having whole-number answers using the four operations
Ch5	Fractions	Lesson 1	Factions of Shapes	explore the meaning of fractions and recognizing f actions of shape
		Lesson 2	Equivalent Fractions	identify and generate equivalent fractions
		Lesson 3	Simplest Form	understand fractions and find simplest form
		Lesson 4	Comparing Fractions	compare two fractions, with different numerators and different denominators
		Lesson 5	Comparing Fractions Using Benchmarks	compare two fractions, with different numerators and different denominators using bench mark
		Lesson 6	Ordering Fractions	order fractions, with different numerators and different denominators
		Lesson 7	Problem-Solving Strategies	use the problem-solving strategies to solve word problem concerning comparing and ordering fractions
Ch6	Operations with Fractions	Lesson 1	Models for Solving Fraction Equations	write the fraction as a sum of unit fractions
		Lesson 2	Add Like Fractions	understand that addition of fractions is like joining parts of the same whole
		Lesson 3	Improper Fractions and Mixed Numbers	understand that the mixed number can be replaced with an equivalent fraction
		Lesson 4	Add Mixed Numbers	add mixed numbers with like denominators
		Lesson 5	Subtract Like Fractions	understand that subtraction of fractions is like separating parts of the same whole
		Lesson 6	Subtract Mixed Numbers	subtract mixed numbers with like denominators
		Lesson 7	Models to Show Multiplying Fractions	multiply a fraction by a whole number
		Lesson 8	Multiply a Fraction by a Whole Number	multiply whole number with a fraction and writing the improper fraction in simplest form
		Lesson 9	Problem-Solving Strategies	use the problem-solving strategies to solve word problem concerning whole numbers and having whole number answers using the four operations
Ch7	Decimals	Lesson 1	Models to Show Decimals and Fractions	write fractions with denominators 10 or 100 as decimals
		Lesson 2	Place Value Through Tenths and Hundredths	write decimals in different forms

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Vocabulary	CCSS	Mathematical Practice
order of operations, parentheses	4.OA.3	MP.2, MP.4, MP.5, MP.8
	4.OA.3	MP.2, MP.4, MP.5, MP.8
fractions, numerator, denominator	4.NF.1	MP.2, MP.3, MP.4, MP.7
equivalent fractions	4.NF.1	MP.2, MP.3, MP.4, MP.7
simplest form, reduce	4.NF.1	MP.2, MP.3, MP.4, MP.7
comparing fractions, like fractions, unlike fractions	4.NF.2	MP.2, MP.3, MP.4, MP.7
benchmark	4.NF.2	MP.2, MP.3, MP.4, MP.7
ordering fractions, least common multiple	4.NF.2	MP.2, MP.3, MP.4, MP.7
	4.NF.1, 4.NF.2	MP.2, MP.3, MP.4, MP.7
unit fraction	4.NF.3	MP.2, MP.3, MP.4, MP.7
	4.NF.3	MP.2, MP.3, MP.4, MP.7
proper fractions, improper fractions, mixed numbers	4.NF.3	MP.2, MP.3, MP.4, MP.7
	4.NF.3	MP.2, MP.3, MP.4, MP.7
	4.NF.3	MP.2, MP.3, MP.4, MP.7
	4.NF.3	MP.2, MP.3, MP.6, MP.7
	4.NF.4	MP.2, MP.3, MP.4, MP.7
	4.NF.4	MP.2, MP.3, MP.4, MP.7
	4.NF.3, 4.NF.4	MP.2, MP.3, MP.4, MP.7
decimal, decimal point, whole part, decimal part	4.NF.6	MP.2, MP.4, MP.6, MP.8
tenths, hundredths	4.NF.6	MP.2, MP.4, MP.6, MP.8

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Chapter		Lesson	Objective	
Ch7	Decimals	Lesson 3	Decimals and Fractions	write equivalent fractions whose denominators are 10 and 100 and change fractions into decimals and decimals into fractions
		Lesson 4	Add Fractional Parts of 10 and 100	add two fractions with respective denominators 10 and 100 and equivalent decimals
		Lesson 5	Compare Decimals	compare two decimals to hundredths by reasoning about their size
		Lesson 6	Order Decimals	order sets of decimals
		Lesson 7	Problem-Solving Strategies	use the problem-solving strategies to solve word problems concerning decimals
Ch8	Measurements	Lesson 1	Customary Units of Length	know the customary units of length and how to convert to smaller unit
		Lesson 2	Customary Units of Weight	know the customary units of weight and how to convert to smaller unit
		Lesson 3	Customary Units of Capacity	know the customary units of capacity and how to convert to smaller unit
		Lesson 4	Metric Units of Length	know the metric units of length and how to convert to smaller unit
		Lesson 5	Metric Units of Mass	know the metric units of mass and how to convert to smaller unit
		Lesson 6	Metric Units of Capacity	know the metric units of capacity and how to convert to smaller unit
		Lesson 7	Units of Time	know the measuring units of time and how to convert to smaller unit
		Lesson 8	Units of Money	know units of money and how to convert to smaller units
		Lesson 9	Measurements Data in a Line Plot	create a line plot from data and interpret data on a line plot add and subtract fraction using data on a line plot
		Lesson 10	Problem-Solving Strategies	use the problem-solving strategies to solve word problems concerning distances, intervals of time, liquid volumes, masses of objects, and money
Ch9	Perimeter and Area	Lesson 1	Perimeter of Rectangles	recognizing perimeter formula and finding the perimeter of rectangle given its length and width
		Lesson 2	Area of Rectangles	recognizing area formula and finding area of rectangle given its length and width
		Lesson 3	Area and Perimeter	finding both area and perimeter and recognizing that rectangles that have the same areas may have different perimeter and vice versa
		Lesson 4	Problem-Solving Strategies	use the problem-solving strategies to solve word problems concerning area and perimeter formulas for rectangles
Ch10		Lesson 1	Points, Lines, Rays and Line Segments	recognize and drawing points, lines, rays and line segment

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Vocabulary	CCSS	Mathematical Practice
	4.NF.5	MP.2, MP.4, MP.6, MP.8
	4.NF.5	MP.2, MP.4, MP.6, MP.8
	4.NF.6, 4.NF.7	MP.2, MP.4, MP.6, MP.8
order decimals	4.NF.6, 4.NF.7	MP.2, MP.4, MP.6, MP.8
	4.NF.5, 4.NF.6, 4.NF.7	MP.2, MP.4, MP.6, MP.8
customary units of length are inch, foot, yard, mile	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
ounce, pound, ton	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
fluid ounce, cup, pint, quart, gallon	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
millimeter, centimeter, meter, kilometer	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
milligram, gram, kilogram	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
milliliter, liter	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
hours, minute, second, week, day, month, year, leap year	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
money, currency, penny, nickel, dime, quarter, dollar, half-dollar, cent	4.MD.1, 4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
line plot	4.MD.4	MP.1, MP.2, MP.3, MP.7, MP.8
	4.MD.2	MP.1, MP.2, MP.3, MP.7, MP.8
perimeter	4.MD.3	MP.2, MP.3, MP.6, MP.7, MP.8
area	4.MD.3	MP.2, MP.3, MP.6, MP.7, MP.8
	4.MD.3	MP.2, MP.3, MP.6, MP.7, MP.8
	4.MD.3	MP.2, MP.3, MP.6, MP.7, MP.8
point, line, ray, line segment	4.G.1	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8



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Chapter	Lesson		Objective	
Ch10	Geometry	Lesson 2	Line Relationships	recognize line relationship, such as parallel, perpendicular and intersecting lines
		Lesson 3	Angles	an angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle
		Lesson 4	Classifying Angles	classify and recognize types of angles
		Lesson 5	Measuring Angles	measure angles in whole-number degrees using a protractor
		Lesson 6	Drawing Angles	sketch angles of specified measure
		Lesson 7	Adding Angles	recognize combined angles and find the missing angle
		Lesson 8	Types of Triangles	classify triangles according to their angles
		Lesson 9	Quadrilaterals	describe quadrilaterals, classify parallelograms according to their angles and their sides
		Lesson 10	Classifying Quadrilaterals	classify quadrilaterals
		Lesson 11	Line of Symmetry	identify symmetric figures, draw lines of symmetry
		Lesson 12	Problem-Solving Strategies	use the problem-solving strategies to solve word problems concerning angle measurements and types of lines

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Vocabulary	CCSS	Mathematical Practice
parallel lines, intersecting lines, perpendicular lines	4.G.1	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
angle, rotation, turn, vertex, side, right angle, straight angle	4.MD.5	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
classifying angles, acute angle, right-angle, obtuse angle, reflex angle	4.MD.5	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
protractor	4.MD.6	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	4.MD.6	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	4.MD.7	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
right triangle, acute triangle, obtuse triangle	4.G.1, 4.G.2	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
quadrilateral, trapezoid, parallelogram, rectangle, square, rhombus, kite	4.G.1, 4.G.2	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	4.G.2	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
symmetry, line of symmetry	4.G.3	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8
	4.G.1, 4.G.2, 4.G.3, 4.MD.7	MP.2, MP.3, MP.5, MP.6, MP.7, MP.8