



Heinemann Publishing
Math in Practice – Teaching Fourth-Grade Math

A crosswalk with My Math, Grade 4



Chapter	Lesson	My Math Descriptor	Math in Practice Module
Chapter 1: Place Value			
1	Lesson 1	Identify the place value of digits in multi-digit numbers	Grade 4, Module 3: Understanding the Place Value System
1	Lesson 2	Read and write multi-digit whole numbers	Grade 4, Module 3: Understanding the Place Value System
1	Lesson 3	Compare numbers using a number line and place value chart	Grade 4, Module 3: Understanding the Place Value System
1	Lesson 4	Order numbers by using a place value chart and comparing the digit values	Grade 4, Module 3: Understanding the Place Value System
1	Lesson 5	Estimate numbers by rounding	Grade 4, Module 3: Understanding the Place Value System
1	Lesson 6	Use the four step plan to solve problems	Grade 4, Module 15: Solving Complex Problems
Chapter 2: Add and Subtract Whole Numbers			
2	Lesson 1	Use addition properties and subtraction rules to add and subtract	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers
2	Lesson 2	Use patterns to solve addition and subtraction problems	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers
2	Lesson 3	Use mental math to add and subtract	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers
2	Lesson 4	Estimate sums and differences of multi-digit numbers	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers

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2	Lesson 5	Add multi-digit whole numbers	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers
2	Lesson 6	Subtract multi-digit whole numbers	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers
2	Lesson 7	Subtract multi-digit numbers, when some digits are zero	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers
2	Lesson 8	Solve problems by drawing a diagram	Grade 4, Module 15: Solving Complex Problems
2	Lesson 9	Solve multi-step word problems using addition or subtraction	Grade 4, Module 4: Fluently Adding and Subtracting Multi Digit Numbers Grade 4, Module 15: Solving Complex Problems
Chapter 3: Understand Multiplication and Division			
3	Lesson 1	Understand how multiplication and division are related	Grade 3, Module 1: Understanding Multiplication and Division
3	Lesson 2	Relate division and subtraction	Grade 3, Module 1: Understanding Multiplication and Division
3	Lesson 3	Recognize the comparison of two groups as another strategy to use when multiplying	Grade 4, Module 1: Understanding and Solving Problems with Multiplicative Comparison
3	Lesson 4	Use comparison to solve problems	Grade 4, Module 1: Understanding and Solving Problems with Multiplicative Comparison
3	Lesson 5	Use multiplication properties and division rules	Grade 3, Module 2: Understanding Properties of Multiplication and Division
3	Lesson 6	Use the Associative Property of Multiplication to solve problems	Grade 3, Module 2: Understanding Properties of Multiplication and Division
3	Lesson 7	Find factors and multiples of whole numbers	Grade 4, Module 2: Exploring Factors, Multiples and Prime Numbers

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3	Lesson 8	Check answers for reasonableness	Grade 4, Module 15: Solving Complex Problems
Chapter 4: Multiplying with One-Digit Numbers			
4	Lesson 1	Multiplying multiples of 10, 100, and 1000 using basic facts and patterns	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 2	Estimate products by rounding	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 3	Explore multiplication using models	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 4	Explore multiplication using area models and partial products	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 5	Multiply a two-digit number by a one digit number	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 6	Explore multiplication with regrouping using models	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 7	Use the distributive property to make multiplication easier	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 8	Multiply a two-digit number by a one-digit number	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 9	Multiply a multidigit number by a one-digit number	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
4	Lesson 10	Determine if a problem needs an estimate or an exact answer	Grade 4, Module 15: Solving Complex Problems
4	Lesson 11	Multiply multi-digit numbers with zeros by a one-digit number	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication

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Chapter 5: Multiply with Two-Digit Numbers			
5	Lesson 1	Use properties and algorithms to multiply by tens	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
5	Lesson 2	Estimate products by rounding	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
5	Lesson 3	Explore multiplication by two-digit numbers	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
5	Lesson 4	Multiply two, two-digit numbers	Grade 4, Module 5: Using Place Value to Perform Multi Digit Multiplication
5	Lesson 5	Use multiplication to solve multi-step word problems	Grade 4, Module 15: Solving Complex Problems
5	Lesson 6	Solve problems by making a table	Grade 4, Module 15: Solving Complex Problems
Chapter 6: Divide by a One-Digit Number			
6	Lesson 1	Use basic facts and patterns to divide mentally	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 2	Estimate quotients using compatible numbers, basic facts, and place value	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 3	Use place value and models to explore dividing by one-digit numbers	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 4	Solve problems by making a model	Grade 4, Module 15: Solving Complex Problems
6	Lesson 5	Divide with remainders and check using multiplication and addition	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division

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6	Lesson 6	Interpret what the remainder means in the context of a division problem	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 7	Determine where to place the first digit when dividing	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 8	Use the distributive property and partial quotients to divide	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 9	Solve division problems with greater numbers	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 10	Solve division problems that result in quotients that have zeros	Grade 4, Module 6: Using Place Value to Perform Multi Digit Division
6	Lesson 11	Solve multi-step word problems using more than one operation	Grade 4, Module 15: Solving Complex Problems
Chapter 7: Patterns and Sequences			
7	Lesson 1	Describe nonnumeric growing and repeating patterns	Grade 4, Module 15: Solving Complex Problems
7	Lesson 2	Identify describe and extend numeric patterns	Grade 4, Module 15: Solving Complex Problems
7	Lesson 3	Extend patterns and write observations about the pattern	Grade 4, Module 15: Solving Complex Problems
7	Lesson 4	Look for a pattern to solve a problem	Grade 4, Module 15: Solving Complex Problems
7	Lesson 5	Find and use rules to write addition and subtraction equations	
7	Lesson 6	Find and use rules to write multiplication and division equations	Grade 3, Module 2: Understanding Properties of Multiplication and Division
7	Lesson 7	Use the order of operations to solve problems	Grade 3, Module 4: Solve One and Two Step Problems with all Four Operations

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7	Lesson 8	Explore equations with two operations	Grade 3, Module 4: Solve One and Two Step Problems with all Four Operations
7	Lesson 9	Use tables to recognize and write equations with two or more operations	Grade 3, Module 4: Solve One and Two Step Problems with all Four Operations
Chapter 8: Fractions			
8	Lesson 1	Find factors and multiples of a whole number	Grade 4, Module 2: Exploring Factors, Multiples, and Prime Numbers
8	Lesson 2	Determine if a number is prime or composite	Grade 4, Module 2: Exploring Factors, Multiples, and Prime Numbers
8	Lesson 3	Explore equivalent fractions	Grade 4, Module 7: Exploring Equivalence and Ordering of Fractions
8	Lesson 4	Find equivalent fractions	Grade 4, Module 7: Exploring Equivalence and Ordering of Fractions
8	Lesson 5	Write a fraction in simplest form	Grade 4, Module 7: Exploring Equivalence and Ordering of Fractions
8	Lesson 6	Compare and order fractions	Grade 4, Module 7: Exploring Equivalence and Ordering of Fractions
8	Lesson 7	Use benchmark fractions to compare and order numbers	Grade 4, Module 7: Exploring Equivalence and Ordering of Fractions
8	Lesson 8	Use logical reasoning to solve problems	Grade 4, Module 15: Solving Complex Problems
8	Lesson 9	Represent mixed numbers by decomposing them into a sum of whole numbers and unit fractions	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators
8	Lesson 10	Write mixed numbers and improper fractions	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators

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Chapter 9: Operations with Fractions			
9	Lesson 1	Use models to add like fractions	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators
9	Lesson 2	Add like fractions	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators
9	Lesson 3	Use models to subtract like fractions	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators
9	Lesson 4	Subtract like fractions	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators
9	Lesson 5	Work backward to solve problems	Grade 4, Module 15: Solving Complex Problems
9	Lesson 6	Add mixed numbers	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators
9	Lesson 7	Subtract mixed numbers	Grade 4, Module 8: Adding and Subtracting Fractions with Like Denominators
9	Lesson 8	Use models to multiply fractions	Grade 4, Module 9: Multiplying Fractions by Whole Numbers
9	Lesson 9	Multiply fractions by whole numbers	Grade 4, Module 9: Multiplying Fractions by Whole Numbers
Chapter 10: Fractions and Decimals			
10	Lesson 1	Explore using place value charts and grids to model decimals	Grade 4, Module 10: Understanding Decimal Notation for Fractions
10	Lesson 2	Model and describe tenths as part of the base ten system	Grade 4, Module 10: Understanding Decimal Notation for Fractions

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10	Lesson 3	Model and describe hundredths as part of the base ten system	Grade 4, Module 10: Understanding Decimal Notation for Fractions
10	Lesson 4	Explore using grids and number lines to model the relationship between decimals and fractions	Grade 4, Module 10: Understanding Decimal Notation for Fractions
10	Lesson 5	Identify, read, and write tenths and hundredths as decimals and fractions	Grade 4, Module 10: Understanding Decimal Notation for Fractions
10	Lesson 6	Use place value and equivalent fractions to add two fractions with respective denominators 10 and 100	Grade 4, Module 10: Understanding Decimal Notation for Fractions
10	Lesson 7	Compare and order decimals to hundredths by reasoning about their size	Grade 4, Module 10: Understanding Decimal Notation for Fractions
10	Lesson 8	Find extra or missing information when solving problems	Grade 4, Module 10: Understanding Decimal Notation for Fractions
Chapter 11: Customary Measurement			
11	Lesson 1	Estimate and measure length using customary units	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
11	Lesson 2	Convert customary units of length	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
11	Lesson 3	Estimate and measure customary capacities	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
11	Lesson 4	Convert customary units of capacity	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
11	Lesson 5	Estimate and measure customary units of weight	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
11	Lesson 6	Convert customary units of weight	Grade 4, Module 11: Exploring Measurement and Measurement Conversions

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11	Lesson 7	Convert units of time	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
11	Lesson 8	Display measurement data in a line plot	Grade 4, Module 13: Representing and Interpreting Data
11	Lesson 9	Solve problems involving measurement	Grade 4, Module 11: Exploring Measurement and Measurement Conversions Grade 4, Module 15: Solving Complex Problems
11	Lesson 10	Solve problems using the guess, check and revise strategy	Grade 4, Module 15: Solving Complex Problems
Chapter 12: Metric Measurement			
12	Lesson 1	Estimate and measure lengths within the metric system	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
12	Lesson 2	Estimate and measure metric capacities	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
12	Lesson 3	Estimate and measure mass and learn the difference between weight and mass	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
12	Lesson 4	Make an organized list to solve problems	Grade 4, Module 15: Solving Complex Problems
12	Lesson 5	Convert metric units	Grade 4, Module 11: Exploring Measurement and Measurement Conversions
12	Lesson 6	Solve problems involving measurements	Grade 4, Module 11: Exploring Measurement and Measurement Conversions Grade 4, Module 15: Solving Complex Problems
Chapter 13: Perimeter and Area			
13	Lesson 1	Find the perimeter of a figure	Grade 4, Module 12: Understanding Area and Perimeter

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13	Lesson 2	Solve a simpler problem to solve problems	Grade 4, Module 15: Solving Complex Problems
13	Lesson 3	Explore the area of a figure	Grade 4, Module 12: Understanding Area and Perimeter
13	Lesson 4	Find the area of rectangles and squares	Grade 4, Module 12: Understanding Area and Perimeter
13	Lesson 5	Relate area to perimeter	Grade 4, Module 12: Understanding Area and Perimeter
Chapter 14: Geometry			
14	Lesson 1	Draw points, lines, line segments, and rays and identify these in two dimensional figures	Grade 4, Module 14: Exploring Geometry and Geometric Measurement
14	Lesson 2	Draw parallel, intersecting, and perpendicular lines and identify these in two dimensional figures	Grade 4, Module 14: Exploring Geometry and Geometric Measurement
14	Lesson 3	Understand concepts of angles and angle measure	Grade 4, Module 14: Exploring Geometry and Geometric Measurement
14	Lesson 4	Use concepts of angle measurement to classify angles	Grade 4, Module 14: Exploring Geometry and Geometric Measurement
14	Lesson 5	Use a protractor to measure angles to the nearest degree	Grade 4, Module 14: Exploring Geometry and Geometric Measurement
14	Lesson 6	Use a protractor to draw angles of a specified measure	Grade 4, Module 14: Exploring Geometry and Geometric Measurement
14	Lesson 7	Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical situations	Grade 4, Module 14: Exploring Geometry and Geometric Measurement
14	Lesson 8	Classify triangles based on angle measure and describe triangles using their attributes	Grade 4, Module 14: Exploring Geometry and Geometric Measurement

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14	Lesson 9	Identify figures with lines of symmetry and draw lines of symmetry	Grade 4, Module 14: Exploring Geometry and Geometric Measurement