



IXL Skill Alignment

Course 1 alignment for Carnegie Learning Math Series



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Chapter 1

Factors, Multiples, Primes, and Composites

Textbook section	IXL skills
Lesson 1.1: Factors and Multiples	1. Identify factors BGJ
Lesson 1.2: Physical Models of Factors and Multiples	
Lesson 1.3: Investigating Prime and Composite Numbers	1. Prime or composite DFC
Lesson 1.4: Investigating Divisibility Rules	1. Divisibility rules WCD

Chapter 2

Prime Factorization and the Fundamental Theorem of Arithmetic

Textbook section	IXL skills
Lesson 2.1: Prime Factorization and Factor Trees	1. Prime factorization 9CP
Lesson 2.2: Investigating Multiples and Least Common Multiples	1. Least common multiple NGA
Lesson 2.3: Investigating Factors and Greatest Common Factors	1. Greatest common factor AMB
Lesson 2.4: Using GCF and LCM to Solve Problems	1. GCF and LCM: word problems ZB8

Chapter 3

Fractions

Textbook section	IXL skills
Lesson 3.1: Modeling Parts of a Whole	1. Understanding fractions: word problems SG9
Lesson 3.2: Fractional Representations	1. Fractions on number lines ULL
Lesson 3.3: Dividing a Whole into Fractional Parts	
Lesson 3.4: Benchmark Fractions	1. Compare fractions with like and unlike denominators SX9
Lesson 3.5: Equivalent Fractions	1. Equivalent fractions review 9P3 2. Write fractions in lowest terms 5EW
Lesson 3.6: Adding and Subtracting Fractions with Like and Unlike Denominators	1. Add and subtract fractions with like denominators LNY 2. Add and subtract fractions with unlike denominators AWS
Lesson 3.7: Improper Fractions and Mixed Numbers	1. Convert between improper fractions and mixed numbers P9A 2. Add and subtract mixed numbers TPZ
Lesson 3.8: Parts of Parts	1. Multiply two fractions using models B7P 2. Multiply two fractions BNT 3. Multiply mixed numbers Z9M
Lesson 3.9: Parts in a Part	1. Reciprocals 5BT 2. Divide fractions DS2
Lesson 3.10: Mixed Number Division	1. Divide fractions and mixed numbers N2B 2. Divide fractions and mixed numbers: word problems WAH

Chapter 4

Decimals

Textbook section	IXL skills
Lesson 4.1: Introduction to Decimals	<ol style="list-style-type: none">1. What decimal number is illustrated? 42E2. Word names for decimal numbers NF93. Decimal number lines AXN
Lesson 4.2: Comparing, Ordering, Estimating, and Rounding Decimals	<ol style="list-style-type: none">1. Inequalities with decimals M6K2. Round decimals XJX
Lesson 4.3: Fraction-Decimal Equivalents	<ol style="list-style-type: none">1. Convert between decimals and fractions FL5
Lesson 4.4: Adding and Subtracting Decimals	<ol style="list-style-type: none">1. Add and subtract decimal numbers 79J2. Add and subtract decimals: word problems 97T3. Estimate sums and differences of decimals SJ6
Lesson 4.5: Multiplying Decimals	<ol style="list-style-type: none">1. Estimate products of decimal numbers EPL2. Multiply decimals 2WT
Lesson 4.6: Long Division of Whole Numbers	<ol style="list-style-type: none">1. Divide whole numbers - 2-digit divisors FL22. Divide whole numbers - 3-digit divisors STW
Lesson 4.7: Dividing Decimals	<ol style="list-style-type: none">1. Division with decimal quotients BFR

Chapter 5

Ratios

Textbook section	IXL skills
Lesson 5.1: Introduction to Ratios	<ol style="list-style-type: none">1. Write a ratio 83K2. Write a ratio: word problems SBQ
Lesson 5.2: Ratio Representations	<ol style="list-style-type: none">1. Compare ratios: word problems 2HT
Lesson 5.3: Writing Equivalent Ratios	<ol style="list-style-type: none">1. Identify equivalent ratios 2LM2. Write an equivalent ratio NEA3. Equivalent ratios: word problems RLZ
Lesson 5.4: Modeling Ratios	
Lesson 5.5: Using Tables to Represent Equivalent Ratios	<ol style="list-style-type: none">1. Ratio tables PPF
Lesson 5.6: Using Graphs to Represent Equivalent Ratios	
Lesson 5.7: Using Multiple Ratio Representations to Solve Problems	
Lesson 5.8: Introduction to Unit Rates	<ol style="list-style-type: none">1. Unit rates JSZ2. Ratios and rates: word problems ZB9

Chapter 6

Percents

Textbook section	IXL skills
Lesson 6.1: Introduction to Percents	<ol style="list-style-type: none">1. What percentage is illustrated? RHG2. Convert between percents, fractions, and decimals ZAV
Lesson 6.2: Estimating Percents	
Lesson 6.3: Determining the Percent of a Number	<ol style="list-style-type: none">1. Percents of numbers and money amounts 8N42. Percents of numbers: word problems BBY
Lesson 6.4: Determine the Part, Whole, or Percent of Percent Problems	<ol style="list-style-type: none">1. Find what percent one number is of another PE72. Find the total given a part and a percent D6L
Lesson 6.5: Using Percents in Real-World Situations	<ol style="list-style-type: none">1. Find what percent one number is of another: word problems 49B2. Sale prices 5GH3. Sale prices: find the original price NW7

Chapter 7

Introduction to Expressions

Textbook section	IXL skills
Lesson 7.1: Order of Operations	1. Evaluate numerical expressions involving whole numbers <small>MLU</small>
Lesson 7.2: Exploring Squares, Cubes, and Roots	1. Square roots of perfect squares <small>Y5F</small> 2. Estimate square roots <small>Z88</small>
Lesson 7.3: Understanding Variables	
Lesson 7.4: Writing Algebraic Expressions	1. Evaluate variable expressions with whole numbers <small>Q8Z</small>
Lesson 7.5: Multiple Representations of Algebraic Expressions	
Lesson 7.6: Using Multiple Representations of Problems	

Chapter 8

Algebraic Expressions

Textbook section	IXL skills
Lesson 8.1: Relationships between Quantities	<ol style="list-style-type: none">1. Write variable expressions: two operations CX92. Write variable expressions: word problems 6LQ
Lesson 8.2: Simplifying Algebraic Expressions	
Lesson 8.3: Using the Distributive Property to Simplify Algebraic Expressions	<ol style="list-style-type: none">1. Multiply using the distributive property 2HH2. Identify equivalent expressions II HTG
Lesson 8.4: Multiple Representations of Equivalent Expressions	
Lesson 8.5: Combining Like Terms	<ol style="list-style-type: none">1. Write equivalent expressions using properties R8H
Lesson 8.6: Using Algebraic Expressions to Analyze and Solve Problems	<ol style="list-style-type: none">1. Evaluate multi-variable expressions HC9

Chapter 9

Inequalities and Equations

Textbook section	IXL skills
Lesson 9.1: Inequalities	<ol style="list-style-type: none">1. Graph inequalities on number lines CXX2. Write inequalities from number lines N99
Lesson 9.2: Solving One-Step Equations with Addition and Subtraction	
Lesson 9.3: Solving One-Step Equations with Multiplication and Division	<ol style="list-style-type: none">1. Solve one-step equations with whole numbers WLR
Lesson 9.4: Representing Situations in Multiple Ways	
Lesson 9.5: Using Multiple Representations to Solve Problems	<ol style="list-style-type: none">1. Complete a table for a two-variable relationship TZB2. Graph a two-variable equation TJA
Lesson 9.6: The Many Uses of Variables in Mathematics	<ol style="list-style-type: none">1. Find a value using two-variable equations: word problems XRJ
Lesson 9.7: Independent and Dependent Variables	<ol style="list-style-type: none">1. Identify independent and dependent variables: word problems 9UJ

Chapter 10

Integers

Textbook section	IXL skills
Lesson 10.1: Introduction to Negative Integers	<ol style="list-style-type: none">1. Understanding integers 8EP2. Integers on number lines K6J3. Put integers in order CMQ
Lesson 10.2: Number Systems	<ol style="list-style-type: none">1. Decimal number lines AXN
Lesson 10.3: Ordering the Rational Numbers	<ol style="list-style-type: none">1. Compare integers 4G62. Compare rational numbers KS23. Put rational numbers in order 5AX
Lesson 10.4: Solving Problems with Rational Numbers	

Chapter 11

The Cartesian Coordinate Plane

Textbook section	IXL skills
Lesson 11.1: Extending the Coordinate Plane	<ol style="list-style-type: none">1. Objects on a coordinate plane GFN2. Graph points on a coordinate plane VHQ3. Quadrants F5T4. Coordinate planes as maps N96
Lesson 11.2: Graphing Geometric Figures	<ol style="list-style-type: none">1. Graph triangles and quadrilaterals E55
Lesson 11.3: Solving Problems with Multiple Representations	<ol style="list-style-type: none">1. Find a value using two-variable equations: word problems XRJ2. Write a two-variable equation 2RE
Lesson 11.4: Interpreting Graphs	<ol style="list-style-type: none">1. Interpret a graph: word problems KZD

Chapter 12

Units of Measure

Textbook section	IXL skills
Lesson 12.1: Customary Measurement	<ol style="list-style-type: none">1. Estimate customary measurements H8P2. Convert and compare customary units 9TJ
Lesson 12.2: Metric Measurement	<ol style="list-style-type: none">1. Estimate metric measurements V6Y2. Convert and compare metric units FDH
Lesson 12.3: Moving Between Measurement Systems	<ol style="list-style-type: none">1. Convert between customary and metric systems 5CF
Lesson 12.4: Choosing Appropriate Measures	

Chapter 13

Area

Textbook section	IXL skills
Lesson 13.1: Sketching, Drawing, Naming, and Sorting Basic Geometric Figures	1. Identify and classify polygons YLC
Lesson 13.2: Area and Perimeter of Rectangles and Squares	1. Perimeter SEM 2. Area of rectangles and squares BE9 3. Area of compound figures 76U 4. Area between two rectangles EY6
Lesson 13.3: Area of Parallelograms and Triangles	1. Area of triangles C8S 2. Area between two triangles 8RG
Lesson 13.4: Area of Trapezoids	1. Area of trapezoids PKW 2. Area of quadrilaterals 27F
Lesson 13.5: Area of Rhombi and Kites	
Lesson 13.6: Area of Regular Polygons	

Chapter 14

Introduction to the Third Dimension

Textbook section	IXL skills
Lesson 14.1: Nets	1. Nets of three-dimensional figures 8KP
Lesson 14.2: The Cube	
Lesson 14.3: Prisms	
Lesson 14.4: Surface Area and Volume of a Prism	1. Volume of cubes and rectangular prisms XHF 2. Surface area of cubes and rectangular prisms RMG 3. Volume of triangular prisms 6ZL
Lesson 14.5: Pyramids	
Lesson 14.6: Identifying Geometric Solids in Everyday Occurrences	1. Which figure is being described? WPF

Chapter 15

Collecting and Displaying Data

Textbook section	IXL skills
Lesson 15.1: Designing Statistical Questions	
Lesson 15.2: Collecting, Displaying, and Analyzing Data	<ol style="list-style-type: none">1. Interpret bar graphs UQA2. Create bar graphs J8V3. Interpret double bar graphs GRP4. Create double bar graphs DCY
Lesson 15.3: Line Plots and Stem and Leaf Plots	<ol style="list-style-type: none">1. Interpret line plots M5Y2. Create line plots 5HD3. Interpret stem-and-leaf plots 2E8
Lesson 15.4: Using Histograms	<ol style="list-style-type: none">1. Create frequency charts W8X2. Interpret histograms CBF3. Create histograms 7NG
Lesson 15.5: Designing and Implementing an Experiment	

Chapter 16

Analyzing and Interpreting Data

Textbook section	IXL skills
Lesson 16.1: Analyzing Data Using Measures of Center	
Lesson 16.2: Determining When to Use the Mean, Median, or Mode	<ol style="list-style-type: none">1. Calculate mean, median, mode, and range ZZK2. Interpret charts and graphs to find mean, median, mode, and range 2WK
Lesson 16.3: Calculating and Interpreting the Mean Absolute Deviation	<ol style="list-style-type: none">1. Calculate mean absolute deviation JUV
Lesson 16.4: Analyzing Data Using the Five Number Summary	
Lesson 16.5: Displaying and Analyzing Data Using Box-and-Whisker Plots	<ol style="list-style-type: none">1. Box plots E9F