



IXL Skill Alignment

6th grade alignment for Big Ideas Math 2014 Common Core Curriculum



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Chapter 1

Numerical Expressions and Factors

Textbook section	IXL skills
1.1: Whole Number Operations	<ol style="list-style-type: none">1. Add and subtract whole numbers 2KJ2. Add and subtract whole numbers: word problems A673. Multiply whole numbers ZCL4. Multiply whole numbers: word problems MVA5. Add, subtract, multiply, or divide two whole numbers R996. Add, subtract, multiply, or divide two whole numbers: word problems B2K
1.2: Powers and Exponents	<ol style="list-style-type: none">1. Write multiplication expressions using exponents TY52. Evaluate exponents XDA3. Find the missing exponent or base HC5
1.3: Order of Operations	<ol style="list-style-type: none">1. Evaluate numerical expressions involving whole numbers MLU
1.4: Prime Factorization	<ol style="list-style-type: none">1. Divisibility rules WCD2. Identify factors BGJ3. Prime factorization 9CP
1.5: Greatest Common Factor	<ol style="list-style-type: none">1. Greatest common factor AMB
1.6: Least Common Multiple	<ol style="list-style-type: none">1. Least common multiple NGA2. GCF and LCM: word problems ZB8

Chapter 2

Fractions and Decimals

Textbook section	IXL skills
2.1: Multiplying Fractions	<ol style="list-style-type: none">1. Fractions of whole numbers I CGR2. Fractions of whole numbers II RLN3. Multiply two fractions using models B7P4. Multiply two fractions BNT5. Multiply fractions: word problems 94H6. Multiply mixed numbers Z9M7. Multiply mixed numbers: word problems 3P8
2.2: Dividing Fractions	<ol style="list-style-type: none">1. Divide whole numbers by unit fractions using models DXW2. Reciprocals 5BT3. Divide whole numbers and unit fractions DPA4. Divide fractions DS2
2.3: Dividing Mixed Numbers	<ol style="list-style-type: none">1. Divide fractions by whole numbers in recipes ENK2. Estimate quotients when dividing mixed numbers HHV3. Divide fractions and mixed numbers N2B4. Divide fractions and mixed numbers: word problems WAH5. Add, subtract, multiply, or divide two fractions 2VR6. Add, subtract, multiply, or divide two fractions: word problems RDY
2.4: Adding and Subtracting Decimals	<ol style="list-style-type: none">1. Add and subtract decimal numbers 79J2. Add and subtract decimals: word problems 97T
2.5: Multiplying Decimals	<ol style="list-style-type: none">1. Estimate products of decimal numbers EPL2. Multiply decimals 2WT



2.6: Dividing Decimals

1. Divide decimals by whole numbers NLL
 2. Divide decimals by whole numbers: word problems TWZ
 3. Division with decimal quotients BFR
 4. Add, subtract, multiply, or divide two decimals P6W
 5. Add, subtract, multiply, or divide two decimals: word problems 8HT
 6. Evaluate numerical expressions involving decimals YEE
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Chapter 3

Algebraic Expressions and Properties

Textbook section	IXL skills
3.1: Algebraic Expressions	<ol style="list-style-type: none">1. Evaluate variable expressions with whole numbers Q8Z2. Evaluate multi-variable expressions HC93. Identify terms and coefficients 9KE
3.2: Writing Expressions	<ol style="list-style-type: none">1. Write variable expressions: two operations CX92. Write variable expressions: word problems 6LQ
3.3: Properties of Addition and Multiplication	<ol style="list-style-type: none">1. Properties of addition JRM2. Properties of multiplication HC8
3.4: The Distributive Property	<ol style="list-style-type: none">1. Multiply using the distributive property 2HH2. Write equivalent expressions using properties R8H3. Identify equivalent expressions II HTG

Chapter 4

Areas of Polygons

Textbook section	IXL skills
4.1: Areas of Parallelograms	
4.2: Areas of Triangles	1. Area of triangles C8S
4.3: Areas of Trapezoids	1. Area of trapezoids PKW 2. Area of quadrilaterals 27F 3. Area of compound figures 76U
4.4: Polygons in the Coordinate Plane	1. Graph triangles and quadrilaterals E55

Chapter 5

Ratios and Rates

Textbook section	IXL skills
5.1: Ratios	<ol style="list-style-type: none">1. Write a ratio 83K2. Write a ratio: word problems SBQ
5.2: Ratio Tables	<ol style="list-style-type: none">1. Identify equivalent ratios 2LM2. Write an equivalent ratio NEA3. Ratio tables PPF4. Equivalent ratios: word problems RLZ
5.3: Rates	<ol style="list-style-type: none">1. Unit rates JSZ2. Ratios and rates: word problems ZB9
5.4: Comparing and Graphing Ratios	<ol style="list-style-type: none">1. Compare ratios: word problems 2HT
5.5: Percents	<ol style="list-style-type: none">1. Compare percents to each other and to fractions GBY2. Find what percent one number is of another PE73. Find what percent one number is of another: word problems 49B
5.6: Solving Percent Problems	<ol style="list-style-type: none">1. Compare percents and fractions: word problems 9C82. Percents of numbers: word problems BBY3. Find what percent one number is of another: word problems 49B4. Find the total given a part and a percent D6L
5.7: Converting Measures	<ol style="list-style-type: none">1. Convert between customary and metric systems 5CF

Chapter 6

Integers and the Coordinate Plane

Textbook section	IXL skills
6.1: Integers	<ol style="list-style-type: none">1. Understanding integers 8EP2. Integers on number lines K6J3. Graph integers on horizontal and vertical number lines 36C
6.2: Comparing and Ordering Integers	<ol style="list-style-type: none">1. Compare integers 4G62. Put integers in order CMQ
6.3: Fractions and Decimals on the Number Line	<ol style="list-style-type: none">1. Decimal number lines AXN
6.4: Absolute Value	<ol style="list-style-type: none">1. Absolute value 2YZ
6.5: 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. Distance between two points A7P

Chapter 7

Equations and Inequalities

Textbook section	IXL skills
7.1: Writing Equations in One Variable	
7.2: Solving Equations Using Addition or Subtraction	
7.3: Solving Equations Using Multiplication or Division	<ol style="list-style-type: none"> 1. Solve one-step equations with whole numbers WLR 2. Solve one-step multiplication and division equations with decimals, fractions, and whole numbers T53 3. Solve one-step equations: word problems BXY
7.4: Writing Equations in Two Variables	<ol style="list-style-type: none"> 1. Does (x, y) satisfy an equation? ELC 2. Identify independent and dependent variables: word problems 9UJ 3. Find a value using two-variable equations: word problems XRJ 4. Complete a table for a two-variable relationship TZB 5. Write a two-variable equation 2RE
7.5: Writing and Graphing Inequalities	<ol style="list-style-type: none"> 1. Solutions to inequalities P9N 2. Graph inequalities on number lines CXX 3. Write inequalities from number lines N99
7.6: Solving Inequalities Using Addition or Subtraction	
7.7: Solving Inequalities Using Multiplication or Division	<ol style="list-style-type: none"> 1. Solve one-step inequalities KRH 2. Graph solutions to one-step inequalities PPC

Chapter 8

Surface Area and Volume

Textbook section	IXL skills
8.1: Three-Dimensional Figures	<ol style="list-style-type: none">1. Identify polyhedra WWL2. Which figure is being described? WPF3. Front, side, and top view QTB
8.2: Surface Areas of Prisms	<ol style="list-style-type: none">1. Surface area of cubes and rectangular prisms RMG
8.3: Surface Areas of Pyramids	
8.4: Volume of Rectangular Prisms	<ol style="list-style-type: none">1. Volume of cubes and rectangular prisms XHF

Chapter 9

Statistical Measures

Textbook section	IXL skills
9.1: Introduction to Statistics	<ol style="list-style-type: none">1. Interpret line plots M5Y2. Create line plots 5HD
9.2: Mean	
9.3: Measures of Center	
9.4: Measures of Variation	<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
9.5: Mean Absolute Deviation	<ol style="list-style-type: none">1. Calculate mean absolute deviation JUV

Chapter 10

Data Displays

Textbook section	IXL skills
10.1: Stem-and-Leaf Plots	1. Interpret stem-and-leaf plots 2E8
10.2: Histograms	1. Interpret histograms CBF 2. Create histograms 7NG
10.3: Shapes of Distributions	
10.4: Box-and-Whisker Plots	1. Box plots E9F