



IXL Skill Alignment

6th alignment for Big Ideas Math Common Core Curriculum

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Chapter 1

Numerical Expressions and Factors

Textbook section	IXL skills
1.1: Whole Number Operations	A.5 Add and subtract whole numbers >>
	A.6 Add and subtract whole numbers: word problems >>
	B.1 Multiply whole numbers >>
	B.2 Multiply whole numbers: word problems >>
	O.1 Add, subtract, multiply, or divide two whole numbers >>
	O.2 Add, subtract, multiply, or divide two whole numbers: word problems >>
1.2: Powers and Exponents	D.1 Write multiplication expressions using exponents >>
	D.2 Evaluate exponents >>
	D.3 Find the missing exponent or base >>
1.3: Order of Operations	O.3 Evaluate numerical expressions involving whole numbers >>
1.4: Prime Factorization	C.1 Divisibility rules >>
	E.4 Identify factors >>
	E.5 Prime factorization >>
1.5: Greatest Common Factor	E.7 Greatest common factor >>
1.6: Least Common Multiple	E.8 Least common multiple >>
	E.9 GCF and LCM: word problems >>

Chapter 2

Fractions and Decimals

Textbook section	IXL skills
2.1: Multiplying Fractions	K.1 Fractions of whole numbers I >>
	K.2 Fractions of whole numbers II >>
	K.5 Multiply two fractions using models >>
	K.6 Multiply two fractions >>
	K.7 Multiply fractions: word problems >>
	K.11 Multiply mixed numbers >>
	K.12 Multiply mixed numbers: word problems >>
2.2: Dividing Fractions	L.1 Divide whole numbers by unit fractions using models >>
	L.2 Reciprocals >>
	L.3 Divide whole numbers and unit fractions >>
	L.5 Divide fractions >>
2.3: Dividing Mixed Numbers	L.4 Divide fractions by whole numbers in recipes >>
	L.6 Estimate quotients when dividing mixed numbers >>
	L.7 Divide fractions and mixed numbers >>
	L.8 Divide fractions and mixed numbers: word problems >>
	O.7 Add, subtract, multiply, or divide two fractions >>
	O.8 Add, subtract, multiply, or divide two fractions: word problems >>
2.4: Adding and Subtracting Decimals	G.1 Add and subtract decimal numbers >>
	G.2 Add and subtract decimals: word problems >>
2.5: Multiplying Decimals	H.1 Estimate products of decimal numbers >>
	H.2 Multiply decimals >>

2.6: Dividing Decimals

- H.4** Divide decimals by whole numbers >>
 - H.5** Divide decimals by whole numbers: word problems >>
 - H.7** Division with decimal quotients >>
 - O.4** Add, subtract, multiply, or divide two decimals >>
 - O.5** Add, subtract, multiply, or divide two decimals: word problems >>
 - O.6** Evaluate numerical expressions involving decimals >>
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Chapter 3

Algebraic Expressions and Properties

Textbook section	IXL skills
3.1: Algebraic Expressions	Y.3 Evaluate variable expressions with whole numbers >>
	Y.4 Evaluate multi-variable expressions >>
	Y.6 Identify terms and coefficients >>
3.2: Writing Expressions	Y.1 Write variable expressions >>
	Y.2 Write variable expressions: word problems >>
3.3: Properties of Addition and Multiplication	Y.8 Properties of addition >>
	Y.9 Properties of multiplication >>
3.4: The Distributive Property	Y.10 Multiply using the distributive property >>
	Y.13 Write equivalent expressions using properties >>
	Y.15 Identify equivalent expressions >>

Chapter 4

Areas of Polygons

Textbook section	IXL skills
4.1: Areas of Parallelograms	
4.2: Areas of Triangles	FF.3 Area of triangles >>
4.3: Areas of Trapezoids	FF.4 Area of parallelograms and trapezoids >> FF.5 Area of quadrilaterals >> FF.6 Area of compound figures >>
4.4: Polygons in the Coordinate Plane	CC.7 Graph triangles and quadrilaterals >>

Chapter 5

Ratios and Rates

Textbook section	IXL skills
5.1: Ratios	R.1 Write a ratio >>
	R.2 Write a ratio: word problems >>
5.2: Ratio Tables	R.3 Identify equivalent ratios >>
	R.4 Write an equivalent ratio >>
	R.5 Ratio tables >>
	R.6 Equivalent ratios: word problems >>
5.3: Rates	R.7 Unit rates and equivalent rates >>
	R.9 Unit rates: word problems >>
5.4: Comparing and Graphing Ratios	R.8 Compare ratios: word problems >>
5.5: Percents	S.3 Compare percents to each other and to fractions >>
	S.8 Find what percent one number is of another >>
	S.9 Find what percent one number is of another: word problems >>
5.6: Solving Percent Problems	S.4 Compare percents and fractions: word problems >>
	S.6 Percents of numbers: word problems >>
	S.9 Find what percent one number is of another: word problems >>
	S.10 Find the total given a part and a percent >>
5.7: Converting Measures	T.8 Convert between customary and metric systems >>

Chapter 6

Integers and the Coordinate Plane

Textbook section	IXL skills
6.1: Integers	M.1 Understanding integers >>
	M.2 Integers on number lines >>
	M.4 Graph integers on horizontal and vertical number lines >>
6.2: Comparing and Ordering Integers	M.5 Compare integers >>
	M.6 Put integers in order >>
6.3: Fractions and Decimals on the Number Line	F.8 Decimal number lines >>
6.4: Absolute Value	M.3 Absolute value and opposite integers >>
6.5: The Coordinate Plane	X.1 Objects on a coordinate plane >>
	X.2 Graph points on a coordinate plane >>
	X.3 Quadrants >>
	X.5 Distance between two points >>

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	<p>Z.6 Solve one-step equations with whole numbers >></p> <p>Z.7 Solve one-step equations with decimals, fractions, and mixed numbers >></p> <p>Z.8 Solve one-step equations: word problems >></p>
7.4: Writing Equations in Two Variables	<p>BB.1 Does (x, y) satisfy an equation? >></p> <p>BB.2 Identify independent and dependent variables >></p> <p>BB.4 Solve word problems involving two-variable equations >></p> <p>BB.5 Complete a table for a two-variable relationship >></p> <p>BB.6 Write a two-variable equation >></p>
7.5: Writing and Graphing Inequalities	<p>AA.1 Solutions to inequalities >></p> <p>AA.2 Graph inequalities on number lines >></p> <p>AA.3 Write inequalities from number lines >></p>
7.6: Solving Inequalities Using Addition or Subtraction	
7.7: Solving Inequalities Using Multiplication or Division	<p>AA.4 Solve one-step inequalities >></p> <p>AA.5 Graph solutions to one-step inequalities >></p>

Chapter 8

Surface Area and Volume

Textbook section	IXL skills
8.1: Three-Dimensional Figures	EE.1 Identify polyhedra >> EE.2 Which figure is being described? >> EE.4 Front, side, and top view >>
8.2: Surface Areas of Prisms	FF.15 Surface area of cubes and rectangular prisms >>
8.3: Surface Areas of Pyramids	
8.4: Volume of Rectangular Prisms	FF.14 Volume of cubes and rectangular prisms >>

Chapter 9

Statistical Measures

Textbook section	IXL skills
9.1: Introduction to Statistics	GG.3 Interpret line plots >> GG.4 Create line plots >>
9.2: Mean	
9.3: Measures of Center	
9.4: Measures of Variation	HH.1 Calculate mean, median, mode, and range >> HH.2 Interpret charts and graphs to find mean, median, mode, and range >>
9.5: Mean Absolute Deviation	HH.4 Calculate mean absolute deviation >>

Chapter 10

Data Displays

Textbook section	IXL skills
10.1: Stem-and-Leaf Plots	GG.18 Stem-and-leaf plots >>
10.2: Histograms	GG.11 Interpret histograms >>
	GG.12 Create histograms >>
10.3: Shapes of Distributions	
10.4: Box-and-Whisker Plots	GG.19 Interpret box-and-whisker plots >>