



IXL Skill Alignment

7th alignment for Big Ideas Math Common Core Curriculum

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Chapter 1

Integers

Textbook section	IXL skills
1.1: Integers and Absolute Value	B.2 Integers on number lines >>
	B.4 Absolute value and opposite integers >>
	B.5 Compare and order integers >>
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1.2: Adding Integers	
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1.3: Subtracting Integers	C.1 Integer addition and subtraction rules >>
	C.2 Add and subtract integers using counters >>
	C.3 Add and subtract integers >>
	C.4 Complete addition and subtraction equations with integers >>
	C.5 Add and subtract integers: word problems >>
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1.4: Multiplying Integers	
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1.5: Dividing Integers	C.6 Integer multiplication and division rules >>
	C.7 Multiply and divide integers >>
	C.8 Complete multiplication and division equations with integers >>

Chapter 2

Rational Numbers

Textbook section	IXL skills
2.1: Rational Numbers	F.6 Compare and order fractions >>
	H.1 Convert between decimals and fractions or mixed numbers >>
	H.2 Identify rational numbers >>
	H.4 Compare rational numbers >>
	H.5 Put rational numbers in order >>
2.2: Adding Rational Numbers	
2.3: Subtracting Rational Numbers	E.1 Add and subtract decimals >>
	E.2 Add and subtract decimals: word problems >>
	G.1 Add and subtract fractions >>
	G.2 Add and subtract fractions: word problems >>
	G.3 Add and subtract mixed numbers >>
	H.6 Add and subtract rational numbers >>
	H.7 Apply addition and subtraction rules >>
2.4: Multiplying and Dividing Rational Numbers	E.3 Multiply decimals >>
	E.5 Divide decimals >>
	E.8 Add, subtract, multiply, and divide decimals: word problems >>
	G.9 Multiply fractions >>
	G.10 Multiply mixed numbers >>
	G.12 Divide fractions >>
	G.13 Divide mixed numbers >>
	G.16 Add, subtract, multiply, and divide fractions and mixed numbers: word problems >>
	H.8 Multiply and divide rational numbers >>
H.9 Apply multiplication and division rules >>	

Chapter 3

Expressions and Equations

Textbook section	IXL skills
3.1: Algebraic Expressions	R.3 Evaluate linear expressions >> R.10 Multiply using the distributive property >> R.12 Write equivalent expressions using properties >>
3.2: Adding and Subtracting Linear Expressions	R.14 Add, subtract, and multiply linear expressions >> R.16 Identify equivalent linear expressions >>
3.3: Solving Equations Using Addition or Subtraction	
3.4: Solving Equations Using Multiplication or Division	R.11 Solve equations using properties >> S.5 Solve one-step equations >>
3.5: Solving Two-Step Equations	S.3 Model and solve equations using algebra tiles >> S.6 Solve two-step equations >> S.7 Solve equations: word problems >> S.9 Solve equations: complete the solution >>

Chapter 4

Inequalities

Textbook section	IXL skills
4.1: Writing and Graphing Inequalities	T.1 Solutions to inequalities >> T.2 Graph inequalities on number lines >> T.3 Write inequalities from number lines >>
4.2: Solving Inequalities Using Addition or Subtraction	
4.3: Solving Inequalities Using Multiplication or Division	T.4 Solve one-step inequalities >> T.5 Graph solutions to one-step inequalities >>
4.4: Solving Two-Step Inequalities	T.6 Solve two-step inequalities >> T.7 Graph solutions to two-step inequalities >>

Chapter 5

Ratios and Proportions

Textbook section	IXL skills
5.1: Ratios and Rates	J.2 Identify equivalent ratios >>
	J.3 Write an equivalent ratio >>
	J.4 Equivalent ratios: word problems >>
	J.5 Unit rates >>
5.2: Proportions	J.8 Do the ratios form a proportion? >>
	J.9 Do the ratios form a proportion: word problems >>
5.3: Writing Proportions	
5.4: Solving Proportions	J.10 Solve proportions >>
	J.11 Solve proportions: word problems >>
5.5: Slope	V.1 Find the slope from a graph >>
	V.2 Find the slope from two points >>
5.6: Direct Variation	K.1 Find the constant of proportionality from a table >>
	K.2 Write equations for proportional relationships from tables >>
	K.3 Identify proportional relationships by graphing >>
	K.4 Find the constant of proportionality from a graph >>
	K.5 Write equations for proportional relationships from graphs >>
	K.6 Identify proportional relationships >>

Chapter 6

Percents

Textbook section	IXL skills
6.1: Percents and Decimals	L.1 What percentage is illustrated? >>
	L.2 Convert between percents, fractions, and decimals >>
6.2: Comparing and Ordering Fractions, Decimals, and Percents	L.3 Compare percents to fractions and decimals >>
6.3: The Percent Proportion	L.4 Estimate percents of numbers >>
	L.5 Percents of numbers and money amounts >>
	L.6 Percents of numbers: word problems >>
6.4: The Percent Equation	L.7 Solve percent equations >>
	L.8 Solve percent equations: word problems >>
6.5: Percents of Increase and Decrease	L.9 Percent of change >>
	L.10 Percent of change: word problems >>
6.6: Discounts and Markups	M.6 Percent of a number: tax, discount, and more >>
	M.7 Find the percent: tax, discount, and more >>
	M.8 Sale prices: find the original price >>
	M.9 Multi-step problems with percents >>
6.7: Simple Interest	M.11 Simple interest >>

Chapter 7

Constructions and Scale Drawings

Textbook section	IXL skills
7.1: Adjacent and Vertical Angles	
7.2: Complementary and Supplementary Angles	W.12 Identify complementary, supplementary, vertical, adjacent, and congruent angles >> W.13 Find measures of complementary, supplementary, vertical, and adjacent angles >>
7.3: Triangles	W.3 Classify triangles >>
7.4: Quadrilaterals	W.4 Identify trapezoids >> W.5 Classify quadrilaterals >>
7.5: Scale Drawings	J.7 Scale drawings: word problems >>

Chapter 8

Circles and Area

Textbook section	IXL skills
8.1: Circles and Circumference	
8.2: Perimeters of Composite Figures	AA.1 Perimeter >>
8.3: Areas of Circles	AA.5 Circles: calculate area, circumference, radius, and diameter >> AA.6 Circles: word problems >> AA.10 Semicircles: calculate area, perimeter, radius, and diameter >>
8.4: Areas of Composite Figures	AA.12 Area of compound figures with triangles, semicircles, and quarter circles >>

Chapter 9

Surface Area and Volume

Textbook section	IXL skills
9.1: Surface Areas of Prisms	AA.8 Surface area >>
9.2: Surface Areas of Pyramids	
9.3: Surface Areas of Cylinders	Z.2 Nets of three-dimensional figures >>
9.4: Volumes of Prisms	AA.7 Volume >>
9.5: Volumes of Pyramids	

Chapter 10

Probability and Statistics

Textbook section	IXL skills
10.1: Outcomes and Events	
10.2: Probability	DD.1 Probability of simple events >>
10.3: Experimental and Theoretical Probability	DD.2 Probability of opposite, mutually exclusive, and overlapping events >>
	DD.3 Experimental probability >>
10.4: Compound Events	DD.5 Compound events: find the number of outcomes >>
10.5: Independent and Dependent Events	DD.6 Identify independent and dependent events >>
	DD.7 Probability of independent and dependent events >>
10.6: Samples and Populations	CC.6 Identify representative, random, and biased samples >>
10.7: Comparing Populations	