



IXL Skill Alignment

7th alignment for Glencoe Math Common Core Edition

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Chapter 1

Ratios and Proportional Reasoning

Textbook section	IXL skills
Lesson 1: Rates	J.5 Unit rates >> M.3 Unit prices >>
Lesson 2: Complex Fractions and Unit Rates	G.12 Divide fractions >>
Lesson 3: Convert Unit Rates	M.4 Unit prices with unit conversions >>
Lesson 4: Proportional and Nonproportional Relationships	J.2 Identify equivalent ratios >> J.4 Equivalent ratios: word problems >> J.8 Do the ratios form a proportion? >> J.9 Do the ratios form a proportion: word problems >>
Lesson 5: Graph Proportional Relationships	K.3 Identify proportional relationships by graphing >> K.6 Identify proportional relationships >>
Lesson 6: Solve Proportional Relationships	J.10 Solve proportions >> J.11 Solve proportions: word problems >> J.12 Estimate population size using proportions >>
Lesson 7: Constant Rate of Change	J.14 Constant rate of change >> K.7 Interpret graphs of proportional relationships >>
Lesson 8: Slope	V.1 Find the slope from a graph >>
Lesson 9: Direct Variation	K.1 Find the constant of proportionality from a table >> K.4 Find the constant of proportionality from a graph >>

Chapter 2

Percents

Textbook section	IXL skills
Lesson 1: Percent of a Number	L.5 Percents of numbers and money amounts >>
	L.6 Percents of numbers: word problems >>
Lesson 2: Percent and Estimation	L.4 Estimate percents of numbers >>
Lesson 3: The Percent Proportion	
Lesson 4: The Percent Equation	L.7 Solve percent equations >>
	L.8 Solve percent equations: word problems >>
Lesson 5: Percent of Change	L.9 Percent of change >>
	L.10 Percent of change: word problems >>
Lesson 6: Sales Tax, Tips, and Markup	
Lesson 7: Discount	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 >>
Lesson 8: Financial Literacy: Simple Interest	M.11 Simple interest >>

Chapter 3

Integers

Textbook section	IXL skills
Lesson 1: Integers and Absolute Value	B.1 Understanding integers >> B.2 Integers on number lines >> B.3 Graph integers on horizontal and vertical number lines >> B.4 Absolute value and opposite integers >>
Lesson 2: Add Integers	
Lesson 3: Subtract 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 >>
Lesson 4: Multiply Integers	
Lesson 5: Divide Integers	C.6 Integer multiplication and division rules >> C.7 Multiply and divide integers >> C.8 Complete multiplication and division equations with integers >>

Chapter 4

Rational Numbers

Textbook section	IXL skills
Lesson 1: Terminating and Repeating Decimals	H.1 Convert between decimals and fractions or mixed numbers >>
Lesson 2: Compare and Order Rational Numbers	H.4 Compare rational numbers >> H.5 Put rational numbers in order >>
Lesson 3: Add and Subtract Like Fractions	
Lesson 4: Add and Subtract Unlike Fractions	G.1 Add and subtract fractions >> G.2 Add and subtract fractions: word problems >>
Lesson 5: Add and Subtract Mixed Numbers	G.3 Add and subtract mixed numbers >> G.4 Add and subtract mixed numbers: word problems >>
Lesson 6: Multiply Fractions	G.7 Multiply fractions and whole numbers >> G.9 Multiply fractions >> G.10 Multiply mixed numbers >> G.11 Multiply fractions and mixed numbers: word problems >>
Lesson 7: Convert Between Systems	O.6 Convert between customary and metric systems >>
Lesson 8: Divide Fractions	G.12 Divide fractions >> G.13 Divide mixed numbers >> G.14 Divide fractions and mixed numbers: word problems >>

Chapter 5

Expressions

Textbook section	IXL skills
Lesson 1: Algebraic Expressions	R.1 Write variable expressions >>
	R.2 Write variable expressions: word problems >>
	R.3 Evaluate linear expressions >>
	R.4 Evaluate multi-variable expressions >>
	R.6 Evaluate nonlinear expressions >>
Lesson 2: Sequences	Q.2 Arithmetic sequences >>
	Q.7 Write variable expressions for arithmetic sequences >>
Lesson 3: Properties of Operations	
Lesson 4: The Distributive Property	R.9 Properties of addition and multiplication >>
	R.10 Multiply using the distributive property >>
Lesson 5: Simplify Algebraic Expressions	R.12 Write equivalent expressions using properties >>
	R.13 Add and subtract like terms >>
	R.16 Identify equivalent linear expressions >>
Lesson 6: Add Linear Expressions	
Lesson 7: Subtract Linear Expressions	R.14 Add, subtract, and multiply linear expressions >>

Chapter 6

Equations and Inequalities

Textbook section	IXL skills	
Lesson 1: Solve One-Step Addition and Subtraction Equations		
Lesson 2: Multiplication and Division Equations	S.5	Solve one-step equations >>
Lesson 3: Solve Equations with Rational Coefficients	S.5	Solve one-step equations >>
Lesson 4: Solve Two-Step Equations	S.3	Model and solve equations using algebra tiles >>
	S.4	Write and solve equations that represent diagrams >>
	S.6	Solve two-step equations >>
Lesson 5: More Two-Step Equations	S.7	Solve equations: word problems >>
	S.9	Solve equations: complete the solution >>
Lesson 6: Solve Inequalities by Addition or Subtraction		
Lesson 7: Solve Inequalities by Multiplication or Division	T.4	Solve one-step inequalities >>
	T.5	Graph solutions to one-step inequalities >>
Lesson 8: Solve Two-Step Inequalities	T.6	Solve two-step inequalities >>
	T.7	Graph solutions to two-step inequalities >>

Chapter 7

Geometric Figures

Textbook section	IXL skills
Lesson 1: Classify Angles	W.2 Name, measure, and classify angles >>
Lesson 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 >>
Lesson 3: Triangles	W.3 Classify triangles >>
	W.7 Find missing angles in triangles >>
Lesson 4: Scale Drawings	J.7 Scale drawings: word problems >>
Lesson 5: Draw Three-Dimensional Figures	Z.3 Front, side, and top view >>
Lesson 6: Cross Sections	Z.1 Bases of three-dimensional figures >>
	Z.4 Cross-sections of three-dimensional figures >>

Chapter 8

Measure Figures

Textbook section	IXL skills
Lesson 1: Circumference	W.16 Parts of a circle >>
Lesson 2: Area of Circles	AA.5 Circles: calculate area, circumference, radius, and diameter >> AA.6 Circles: word problems >>
Lesson 3: Area of Composite Figures	AA.12 Area of compound figures with triangles, semicircles, and quarter circles >> AA.13 Area between two shapes >>
Lesson 4: Volume of Prisms	AA.7 Volume >>
Lesson 5: Volume of Pyramids	
Lesson 6: Surface Area of Prisms	AA.8 Surface area >>
Lesson 7: Surface Area of Pyramids	
Lesson 8: Volume and Surface Area of Composite Figures	

Chapter 9

Probability

Textbook section	IXL skills
Lesson 1: Probability of Simple Events	DD.1 Probability of simple events >>
Lesson 2: Theoretical and Experimental Probability	DD.2 Probability of opposite, mutually exclusive, and overlapping events >>
	DD.3 Experimental probability >>
Lesson 3: Probability of Compound Events	DD.5 Compound events: find the number of outcomes >>
Lesson 4: Simulations	
Lesson 5: Fundamental Counting Principle	DD.10 Counting principle >>
Lesson 6: Permutations	DD.9 Permutations >>
Lesson 7: Independent and Dependent Events	DD.6 Identify independent and dependent events >>
	DD.7 Probability of independent and dependent events >>

Chapter 10

Statistics

Textbook section	IXL skills
Lesson 1: Make Predictions	J.12 Estimate population size using proportions >>
Lesson 2: Unbiased and Biased Samples	CC.6 Identify representative, random, and biased samples >>
Lesson 3: Misleading Graphs and Statistics	CC.2 Interpret charts and graphs to find mean, median, mode, and range >>
Lesson 4: Compare Populations	
Lesson 5: Select and Appropriate Display	BB.17 Choose the best type of graph >>