



IXL Skill Alignment

6th alignment for EngageNY Common Core Curriculum

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Module 1

Ratios and Unit Rates

Textbook section	IXL skills
Topic A: Representing and Reasoning About Ratios	R.1 Write a ratio >> R.2 Write a ratio: word problems >> R.3 Identify equivalent ratios >> R.5 Ratio tables >> R.6 Equivalent ratios: word problems >> R.12 Scale drawings: word problems >>
Topic B: Collections of Equivalent Ratios	R.5 Ratio tables >> R.8 Compare ratios: word problems >> <i>See also:</i> R.12 Scale drawings: word problems >>
Topic C: Unit Rates	R.7 Unit rates and equivalent rates >> R.9 Unit rates: word problems >> T.3 Convert and compare customary units >> T.7 Convert and compare metric units >> V.2 Unit prices >> V.3 Unit prices with fractions and decimals >>
Topic D: Percent	S.2 Convert between percents, fractions, and decimals >> S.3 Compare percents to each other and to fractions >> S.4 Compare percents and fractions: word problems >> S.5 Percents of numbers and money amounts >> S.8 Find what percent one number is of another >> S.9 Find what percent one number is of another: word problems >> V.5 Sale prices >> V.6 Sale prices: find the original price >>

See also:

S.6 Percents of numbers: word problems >>

V.1 Which is the better coupon? >>

V.7 Percents - calculate tax, tip, mark-up, and more >>

Module 2

Arithmetic Operations Including Dividing by a Fraction

Textbook section	IXL skills
Topic A: Dividing Fractions by Fractions	L.2 Reciprocals >>
	L.3 Divide whole numbers and unit fractions >>
	L.4 Divide fractions by whole numbers in recipes >>
	L.5 Divide fractions >>
	L.7 Divide fractions and mixed numbers >>
	L.8 Divide fractions and mixed numbers: word problems >>
	<i>See also:</i>
	L.1 Divide whole numbers by unit fractions using models >>
Topic B: Multi-Digit Decimal Operations - Adding, Subtracting, and Multiplying	G.1 Add and subtract decimal numbers >>
	G.2 Add and subtract decimals: word problems >>
	G.3 Estimate sums and differences of decimals >>
	H.1 Estimate products of decimal numbers >>
	H.2 Multiply decimals >>
	U.4 Multiply money by whole numbers and decimals >>
	U.5 Multiply money: word problems >>
Topic C: Dividing Whole Numbers and Decimals	C.4 Estimate quotients >>
	H.4 Divide decimals by whole numbers >>
	H.5 Divide decimals by whole numbers: word problems >>
	H.7 Division with decimal quotients >>
	U.6 Divide money amounts >>
	U.7 Divide money amounts: word problems >>
	<i>See also:</i>
	H.6 Multiply and divide decimals by powers of ten >>

Topic D: Number Theory - Thinking Logically About
Multiplicative Arithmetic

- C.1** Divisibility rules >>
 - E.4** Identify factors >>
 - E.5** Prime factorization >>
 - E.7** Greatest common factor >>
 - E.8** Least common multiple >>
 - E.9** GCF and LCM: word problems >>
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Module 3

Rational Numbers

Textbook section	IXL skills
Topic A: Understanding Positive and Negative Numbers on the Number Line	M.1 Understanding integers >>
	M.2 Integers on number lines >>
	M.4 Graph integers on horizontal and vertical number lines >>
	P.6 Rational numbers: find the sign >>
Topic B: Order and Absolute Value	F.4 Put decimal numbers in order >>
	F.5 Inequalities with decimals >>
	I.7 Compare fractions with like and unlike denominators >>
	I.12 Put a mix of decimals, fractions, and mixed numbers in order >>
	M.3 Absolute value and opposite integers >>
	M.5 Compare integers >>
	P.1 Compare rational numbers >>
	P.2 Put rational numbers in order >>
	P.3 Absolute value of rational numbers >>
	T.9 Compare temperatures above and below zero >>
Topic C: Rational Numbers and the Coordinate Plane	X.1 Objects on a coordinate plane >>
	X.2 Graph points on a coordinate plane >>
	X.5 Distance between two points >>

Module 4

Expressions and Equations

Textbook section	IXL skills
Topic A: Relationships of the Operations	
Topic B: Special Notations of Operations	D.1 Write multiplication expressions using exponents >> D.2 Evaluate exponents >> D.4 Exponents with decimal bases >> D.5 Exponents with fractional bases >> O.3 Evaluate numerical expressions involving whole numbers >>
Topic C: Replacing Letters and Numbers	Y.3 Evaluate variable expressions with whole numbers >> Y.8 Properties of addition >> Y.9 Properties of multiplication >> FF.14 Volume of cubes and rectangular prisms >>
Topic D: Expanding, Factoring, and Distributing Expressions	Y.6 Identify terms and coefficients >>
Topic E: Expressing Operations in Algebraic Form	Y.1 Write variable expressions >> Y.2 Write variable expressions: word problems >>
Topic F: Writing and Evaluating Expressions and Formulas	Y.2 Write variable expressions: word problems >>
Topic G: Solving Equations	Z.6 Solve one-step equations with whole numbers >>
Topic H: Applications of Equations	AA.2 Graph inequalities on number lines >> AA.3 Write inequalities from number lines >> AA.4 Solve one-step inequalities >> AA.5 Graph solutions to one-step inequalities >> BB.2 Identify independent and dependent variables >>

BB.5 Complete a table for a two-variable relationship >>

BB.6 Write a two-variable equation >>

Module 5

Area, Surface Area, and Volume Problems

Textbook section	IXL skills
Topic A: Area of Triangles, Quadrilaterals, and Polygons	FF.5 Area of quadrilaterals >>
	FF.6 Area of compound figures >>
	FF.7 Area between two rectangles >>
	<i>See also:</i> FF.8 Area between two triangles >>
Topic B: Polygons on the Coordinate Plane	X.5 Distance between two points >>
	FF.1 Perimeter >>
	FF.6 Area of compound figures >>
	FF.7 Area between two rectangles >>
	FF.8 Area between two triangles >>
	FF.10 Compare area and perimeter of two figures >>
	<i>See also:</i> FF.9 Rectangles: relationship between perimeter and area >>
Topic C: Volume of Right Rectangular Prisms	FF.14 Volume of cubes and rectangular prisms >>
Topic D: Nets and Surface Area	EE.3 Nets of three-dimensional figures >>
	FF.15 Surface area of cubes and rectangular prisms >>

Module 6

Statistics

Textbook section	IXL skills
Topic A: Understanding Distributions	GG.3 Interpret line plots >> GG.4 Create line plots >> GG.5 Create and interpret line plots with fractions >>
Topic B: Summarizing a Distribution that is Approximately Symmetric Using the Mean and Mean Absolute Deviation	
Topic C: Summarizing a Distribution that is Skewed Using the Median and the Interquartile Range	GG.19 Interpret box-and-whisker plots >>
Topic D: Summarizing and Describing Distributions	GG.19 Interpret box-and-whisker plots >>