



IXL Skill Alignment

7th alignment for EngageNY Common Core Curriculum

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Module 1

Ratios and Proportional Relationships

Textbook section	IXL skills
Topic A: Proportional Relationships	J.1 Understanding ratios >>
	J.4 Equivalent ratios: word problems >>
	J.5 Unit rates >>
	J.6 Compare ratios: word problems >>
	J.8 Do the ratios form a proportion? >>
	J.9 Do the ratios form a proportion: word problems >>
	J.11 Solve proportions: word problems >>
	K.1 Find the constant of proportionality from a table >>
	K.6 Identify proportional relationships >>
	K.8 Write and solve equations for proportional relationships >>
	M.3 Unit prices >>
	<i>See also:</i>
Topic B: Unit Rate and the Constant of Proportionality	J.2 Identify equivalent ratios >>
	J.5 Unit rates >>
	J.11 Solve proportions: word problems >>
	K.1 Find the constant of proportionality from a table >>
	K.2 Write equations for proportional relationships from tables >>
	K.6 Identify proportional relationships >>
	K.7 Interpret graphs of proportional relationships >>
	U.2 Identify independent and dependent variables >>

See also:

- 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 >>
- U.9** Interpret a graph: word problems >>

Topic C: Ratios and Rates Involving Fractions

- G.12** Divide fractions >>
- G.13** Divide mixed numbers >>
- G.14** Divide fractions and mixed numbers: word problems >>

Topic D: Ratios of Scale Drawings

- J.7** Scale drawings: word problems >>
 - AA.2** Area of rectangles and parallelograms >>
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Module 2

Rational Numbers

Textbook section	IXL skills
Topic A: Addition and Subtraction of Integers and Rational Numbers	B.1 Understanding integers >>
	B.4 Absolute value and opposite integers >>
	C.1 Integer addition and subtraction rules >>
	C.3 Add and subtract integers >>
	H.3 Absolute value of rational numbers >>
	H.6 Add and subtract rational numbers >>
	<i>See also:</i>
	C.2 Add and subtract integers using counters >>
	C.4 Complete addition and subtraction equations with integers >>
	C.5 Add and subtract integers: word problems >>
	H.7 Apply addition and subtraction rules >>
Topic B: Multiplication and Division of Integers and Rational Numbers	A.3 Multiplicative inverses >>
	C.6 Integer multiplication and division rules >>
	C.7 Multiply and divide integers >>
	C.8 Complete multiplication and division equations with integers >>
	H.1 Convert between decimals and fractions or mixed numbers >>
	H.8 Multiply and divide rational numbers >>
	<i>See also:</i>
	C.9 Evaluate numerical expressions involving integers >>
	E.11 Evaluate numerical expressions involving decimals >>
	G.18 Evaluate numerical expressions involving fractions >>
	H.9 Apply multiplication and division rules >>

Topic C: Applying Operations with Rational Numbers to Expressions and Equations

- A.3** Multiplicative inverses >>
- M.1** Add, subtract, multiply, and divide money amounts: word problems >>
- M.6** Percent of a number: tax, discount, and more >>
- M.9** Multi-step problems with percents >>
- R.2** Write variable expressions: word problems >>
- R.3** Evaluate linear expressions >>
- R.4** Evaluate multi-variable expressions >>
- S.6** Solve two-step equations >>
- S.7** Solve equations: word problems >>

See also:

- R.12** Write equivalent expressions using properties >>
 - S.4** Write and solve equations that represent diagrams >>
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Module 3

Expressions and Equations

Textbook section	IXL skills
Topic A: Use Properties of Operations to Generate Equivalent Expressions	A.3 Multiplicative inverses >>
	R.3 Evaluate linear expressions >>
	R.4 Evaluate multi-variable expressions >>
	R.7 Identify terms and coefficients >>
	R.10 Multiply using the distributive property >>
	R.12 Write equivalent expressions using properties >>
	R.13 Add and subtract like terms >>
	R.14 Add, subtract, and multiply linear expressions >>
Topic B: Solve Problems Using Expressions, Equations, and Inequalities	N.3 Guess-and-check word problems >>
	S.7 Solve equations: word problems >>
	S.8 Solve equations involving like terms >>
	T.1 Solutions to inequalities >>
	T.2 Graph inequalities on number lines >>
	T.3 Write inequalities from number lines >>
	T.4 Solve one-step inequalities >>
	T.5 Graph solutions to one-step inequalities >>
	T.6 Solve two-step inequalities >>
	T.7 Graph solutions to two-step inequalities >>
	W.12 Identify complementary, supplementary, vertical, adjacent, and congruent angles >>
	W.13 Find measures of complementary, supplementary, vertical, and adjacent angles >>
	<i>See also:</i>
	S.1 Which x satisfies an equation? >>
	S.4 Write and solve equations that represent diagrams >>
	W.2 Name, measure, and classify angles >>

Topic C: Use Equations and Inequalities to Solve Geometry Problems

- AA.5** Circles: calculate area, circumference, radius, and diameter >>
- AA.6** Circles: word problems >>
- AA.7** Volume >>
- AA.8** Surface area >>
- AA.10** Semicircles: calculate area, perimeter, radius, and diameter >>
- AA.11** Quarter circles: calculate area, perimeter, and radius >>
- AA.12** Area of compound figures with triangles, semicircles, and quarter circles >>
- AA.13** Area between two shapes >>

See also:

- Z.3** Front, side, and top view >>
 - AA.2** Area of rectangles and parallelograms >>
 - AA.3** Area of triangles and trapezoids >>
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Module 4

Percent and Proportional Relationships

Textbook section	IXL skills
Topic A: Finding the Whole	L.2 Convert between percents, fractions, and decimals >>
	L.3 Compare percents to fractions and decimals >>
	L.5 Percents of numbers and money amounts >>
	L.6 Percents of numbers: word problems >>
	L.7 Solve percent equations >>
	L.8 Solve percent equations: word problems >>
	L.9 Percent of change >>
	L.10 Percent of change: word problems >>
	<i>See also:</i>
	L.1 What percentage is illustrated? >>
Topic B: Percent Problems Including More Than One Whole	K.6 Identify proportional relationships >>
	L.4 Estimate percents of numbers >>
	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 >>
	M.10 Estimate tips >>
	M.11 Simple interest >>
Topic C: Scale Drawings	
Topic D: Population, Mixture, and Counting Problems Involving Percents	

Module 5

Statistics and Probability

Textbook section	IXL skills
Topic A: Calculating and Interpreting Probabilities	
Topic B: Estimating Probabilities	
Topic C: Random Sampling and Estimating Population Characteristics	CC.6 Identify representative, random, and biased samples >>
Topic D: Comparing Populations	

Module 6

Geometry

Textbook section	IXL skills
Topic A: Unknown Angles	<p>W.12 Identify complementary, supplementary, vertical, adjacent, and congruent angles >></p> <p>W.13 Find measures of complementary, supplementary, vertical, and adjacent angles >></p>
Topic B: Constructing Triangles	
Topic C: Slicing Solids	
Topic D: Problems Involving Area and Surface Area	<p>AA.8 Surface area >></p> <p>AA.12 Area of compound figures with triangles, semicircles, and quarter circles >></p> <p>AA.13 Area between two shapes >></p> <p><i>See also:</i></p> <p>AA.10 Semicircles: calculate area, perimeter, radius, and diameter >></p> <p>AA.11 Quarter circles: calculate area, perimeter, and radius >></p>
Topic E: Problems Involving Volume	<p>AA.7 Volume >></p> <p><i>See also:</i></p> <p>AA.9 Perimeter, area, and volume: changes in scale >></p>