



IXL Skill Alignment

5th grade alignment for EngageNY Common Core Curriculum

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Module 1

Place Value and Decimal Fractions

Textbook section	IXL skills
Topic A: Multiplicative Patterns on the Place Value Chart	I.2 Multiply a decimal by a power of ten >>
	Z.8 Compare and convert metric units of length >>
	See also:
	G.4 Place values in decimal numbers >>
Topic B: Decimal Fractions and Place Value Patterns	J.1 Divide by powers of ten >>
	G.5 Convert decimals between standard and expanded form >>
	See also:
	G.3 Understanding decimals expressed in words >>
	G.4 Place values in decimal numbers >>
Topic C: Place Value and Rounding Decimal Fractions	G.10 Compare decimal numbers >>
	G.11 Put decimal numbers in order >>
Topic D: Adding and Subtracting Decimals	H.1 Add decimal numbers >>
	H.2 Subtract decimal numbers >>
	H.3 Add and subtract decimal numbers >>
	H.4 Add and subtract decimals: word problems >>
	See also:
	B.3 Add and subtract money amounts >>
	B.4 Add and subtract money: word problems >>
Topic E: Multiplying Decimals	

Topic F: Dividing Decimals

B.4 Add and subtract money: word problems >>

H.4 Add and subtract decimals: word problems >>

S.1 Price lists >>

See also:

O.6 Add, subtract, multiply, and divide decimals: word problems >>

Module 2

Multi-Digit Whole Number and Decimal Fraction Operations

Textbook section	IXL skills
Topic A: Mental Strategies for Multi-Digit Whole Number Multiplication	C.3 Multiplication patterns over increasing place values >>
	C.4 Multiply numbers ending in zeroes >>
	C.5 Multiply numbers ending in zeroes: word problems >>
	C.8 Estimate products >>
	C.9 Estimate products: word problems >>
Topic B: The Standard Algorithm for Multi-Digit Whole Number Multiplication	C.13 Multiply 2-digit numbers by 2-digit numbers >>
	C.14 Multiply 2-digit numbers by 3-digit numbers >>
	C.18 Multiply by 3-digit numbers >>
	O.3 Write numerical expressions >>
	See also:
	C.15 Multiply 2-digit numbers by larger numbers >>
	C.16 Multiply by 2-digit numbers: word problems >>
Topic C: Decimal Multi-Digit Multiplication	I.1 Estimate products of decimals >>
	I.5 Multiply decimals and whole numbers: word problems >>
	I.6 Multiply money amounts: word problems >>
Topic D: Measurement Word Problems with Whole Number and Decimal Multiplication	Z.4 Compare and convert customary units of volume >>
	Z.8 Compare and convert metric units of length >>
	Z.9 Compare and convert metric units of weight >>

Z.10 Compare and convert metric units of volume >>

Z.11 Compare and convert metric units >>

See also:

Y.1 Convert time units >>

Z.2 Compare and convert customary units of length >>

Z.3 Compare and convert customary units of weight >>

Z.5 Compare and convert customary units >>

Z.13 Compare customary units by multiplying >>

Topic E: Mental Strategies for Multi-Digit Whole Number Division

D.6 Division patterns over increasing place values >>

D.7 Divide numbers ending in zeroes >>

D.8 Divide numbers ending in zeroes: word problems >>

D.9 Estimate quotients >>

D.10 Estimate quotients: word problems >>

Topic F: Partial Quotients and Multi-Digit Whole Number Division

D.11 Divide 2-digit and 3-digit numbers by 2-digit numbers >>

D.12 Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >>

D.13 Divide larger numbers by 2-digit numbers >>

D.14 Divide larger numbers by 2-digit numbers: word problems >>

Topic G: Partial Quotients and Multi-Digit Decimal Division

D.15 Divide money amounts: word problems >>

J.2 Decimal division patterns over increasing place values >>

J.3 Division with decimal quotients >>

J.5 Division with decimal quotients: word problems >>

Topic H: Measurement Word Problems with Multi-Digit Division

D.12 Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >>

D.14 Divide larger numbers by 2-digit numbers: word problems >>

Module 3

Addition and Subtraction of Fractions

Textbook section	IXL skills
Topic A: Equivalent Fractions	<p>L.1 Decompose fractions multiple ways >></p> <p>M.1 Multiply unit fractions by whole numbers using number lines >></p> <p>M.5 Multiply fractions by whole numbers using number lines >></p> <p>See also:</p> <p>L.2 Add and subtract fractions with like denominators using number lines >></p> <p>L.3 Add and subtract fractions with like denominators >></p> <p>M.3 Multiples of fractions >></p> <p>M.8 Multiply fractions by whole numbers II >></p> <p>M.10 Multiply fractions by whole numbers: word problems >></p>
Topic B: Making Like Units Pictorially	<p>L.8 Add fractions with unlike denominators >></p> <p>L.10 Subtract fractions with unlike denominators >></p> <p>L.11 Add and subtract fractions with unlike denominators: word problems >></p> <p>See also:</p> <p>L.6 Add fractions with unlike denominators using models >></p> <p>L.9 Subtract fractions with unlike denominators using models >></p>
Topic C: Making Like Units Numerically	<p>L.8 Add fractions with unlike denominators >></p> <p>L.10 Subtract fractions with unlike denominators >></p> <p>L.11 Add and subtract fractions with unlike denominators: word problems >></p>

- L.12** Add 3 or more fractions with unlike denominators >>
- L.13** Add 3 or more fractions: word problems >>
- L.18** Add mixed numbers with unlike denominators >>
- L.19** Subtract mixed numbers with unlike denominators >>
- L.20** Add and subtract mixed numbers: word problems >>
- L.21** Add and subtract fractions in recipes >>

Topic D: Further Applications

- L.14** Compare sums and differences of unit fractions >>
- L.15** Complete addition and subtraction sentences with fractions >>
- L.16** Inequalities with addition and subtraction of fractions >>
- L.22** Complete addition and subtraction sentences with mixed numbers >>
- L.23** Inequalities with addition and subtraction of mixed numbers >>

See also:

- K.8** Compare fractions using benchmarks >>
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Module 4

Multiplication and Division of Fractions and Decimal Fractions

Textbook section	IXL skills
Topic A: Line Plots of Fraction Measurements	W.12 Create and interpret line plots with fractions >>
Topic B: Fractions as Division	K.5 Convert between improper fractions and mixed numbers >>
Topic C: Multiplication of a Whole Number by a Fraction	M.7 Multiply fractions by whole numbers I >> M.8 Multiply fractions by whole numbers II >> M.10 Multiply fractions by whole numbers: word problems >>
Topic D: Fraction Expressions and Word Problems	L.11 Add and subtract fractions with unlike denominators: word problems >> M.10 Multiply fractions by whole numbers: word problems >> O.8 Add, subtract, multiply, and divide fractions and mixed numbers: word problems >>
Topic E: Multiplication of a Fraction by a Fraction	I.8 Multiply two decimals using grids >> I.9 Multiply two decimals >> M.12 Multiply two unit fractions using models >> M.13 Multiply two fractions using models: fill in the missing factor >> M.14 Multiply two fractions using models >> M.15 Multiply two fractions >> M.16 Multiply two fractions: word problems >> M.23 Multiply a mixed number by a whole number >> M.24 Multiply a mixed number by a fraction >> M.28 Multiply fractions and mixed numbers in recipes >>

Topic F: Multiplication with Fractions and Decimals as Scaling and Word Problems

- G.12** Convert fractions to decimals >>
- I.5** Multiply decimals and whole numbers: word problems >>
- I.6** Multiply money amounts: word problems >>
- M.10** Multiply fractions by whole numbers: word problems >>
- M.16** Multiply two fractions: word problems >>
- M.17** Scaling whole numbers by fractions >>
- M.18** Scaling fractions by fractions >>

Topic G: Division of Fractions and Decimal Fractions

- N.1** Divide unit fractions by whole numbers >>
- N.2** Divide whole numbers by unit fractions using models >>
- N.3** Divide whole numbers by unit fractions >>
- N.4** Divide whole numbers and unit fractions >>
- N.7** Divide unit fractions by whole numbers: word problems >>

Topic H: Interpretation of Numerical Expressions

- N.7** Divide unit fractions by whole numbers: word problems >>

Module 5

Addition and Multiplication with Volume and Area

Textbook section	IXL skills
Topic A: Concepts of Volume	EE.9 Volume of rectangular prisms made of unit cubes >>
	EE.10 Volume of irregular figures made of unit cubes >>
Topic B: Volume and the Operations of Multiplication and Addition	EE.9 Volume of rectangular prisms made of unit cubes >>
	EE.11 Volume of cubes and rectangular prisms >>
Topic C: Area of Rectangular Figures with Fractional Side Lengths	M.15 Multiply two fractions >>
	M.23 Multiply a mixed number by a whole number >>
	M.24 Multiply a mixed number by a fraction >>
	M.25 Multiply two mixed numbers >>
	EE.2 Area of squares and rectangles >>
	EE.6 Area between two rectangles >>
	See also:
	EE.5 Area of compound figures >>
EE.8 Area and perimeter: word problems >>	
Topic D: Drawing, Analysis, and Classification of Two-Dimensional Shapes	AA.7 Measure angles with a protractor >>
	BB.4 Classify quadrilaterals >>

Module 6

Problem Solving with the Coordinate Plane

Textbook section	IXL skills
Topic A: Coordinate Systems	G.8 Decimal number lines >>
	U.1 Objects on a coordinate plane >>
	U.3 Coordinate planes as maps >>
	AA.5 Parallel, perpendicular, and intersecting lines >>
	See also:
	G.9 Compare decimals on number lines >>
	K.7 Graph and compare fractions on number lines >>
Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules	U.4 Follow directions on a coordinate plane >>
	C.22 Multiplication input/output tables >>
	C.23 Multiplication input/output tables: find the rule >>
	M.11 Multiply fractions by whole numbers: input/output tables >>
	V.9 Complete a table from a graph >>
	See also:
	V.10 Graph a two-variable relationship >>
Topic C: Drawing Figures in the Coordinate Plane	AA.5 Parallel, perpendicular, and intersecting lines >>
	CC.1 Lines of symmetry >>
Topic D: Problem Solving in the Coordinate Plane	W.2 Interpret line graphs >>
	W.3 Create line graphs >>
Topic E: Multi-Step Word Problems	O.3 Write numerical expressions >>
	O.4 Evaluate numerical expressions >>
	P.1 Multi-step word problems >>

- P.2** Word problems with extra or missing information >>
- P.3** Guess-and-check problems >>

See also:

- P.4** Find the order >>

Topic F: The Years In Review: A Reflection on A Story of Units

- B.3** Add and subtract money amounts >>
- C.3** Multiplication patterns over increasing place values >>
- C.4** Multiply numbers ending in zeroes >>
- C.13** Multiply 2-digit numbers by 2-digit numbers >>
- C.14** Multiply 2-digit numbers by 3-digit numbers >>
- D.11** Divide 2-digit and 3-digit numbers by 2-digit numbers >>
- H.1** Add decimal numbers >>
- H.2** Subtract decimal numbers >>
- I.3** Multiply a decimal by a one-digit whole number >>
- I.9** Multiply two decimals >>
- K.5** Convert between improper fractions and mixed numbers >>
- M.7** Multiply fractions by whole numbers I >>
- M.8** Multiply fractions by whole numbers II >>
- M.15** Multiply two fractions >>
- N.1** Divide unit fractions by whole numbers >>
- N.3** Divide whole numbers by unit fractions >>
- AA.5** Parallel, perpendicular, and intersecting lines >>
- AA.6** Types of angles >>
- AA.7** Measure angles with a protractor >>
- BB.4** Classify quadrilaterals >>
- EE.9** Volume of rectangular prisms made of unit cubes >>
- EE.11** Volume of cubes and rectangular prisms >>

See also:

G.10 [Compare decimal numbers >>](#)

K.6 [Least common denominator >>](#)

BB.5 [Properties of triangles and quadrilaterals >>](#)

DD.1 [Identify three-dimensional figures >>](#)

DD.2 [Count vertices, edges, and faces >>](#)
