IXL Skill Alignment

5th alignment for EngageNY Common Core Curriculum

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 >>
	J.1	Divide by powers of ten >>
Topic B: Decimal Fractions and Place Value Patterns	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 >>
	G.10	Compare decimal numbers >>
	G.11	Put decimal numbers in order >>
Topic C: Place Value and Rounding Decimal Fractions		
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:	
	S.1	Add and subtract money amounts >>
	S.2	Add and subtract money: word problems >>
Topic E: Multiplying Decimals		
Topic F: Dividing Decimals	H.4	Add and subtract decimals: word problems >>
	S.2	Add and subtract money: word problems >>

S.5   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 >>
	S.3	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	**J.2**	Decimal division patterns over increasing place values >>
	J.3	Division with decimal quotients >>
	J.5	Division with decimal quotients: word problems >>
	S.4	Divide money amounts: 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 >>

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Module 3
Addition and Subtraction of Fractions

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

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.6**	Convert between improper fractions and mixed numbers >>
Topic C: Multiplication of a Whole Number by a Fraction	**M.8**	Multiply fractions by whole numbers I >>
	M.9	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.7**	Multiply two decimals using grids >>
	I.8	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.13**	Convert mixed numbers to decimals >>
	I.5	Multiply decimals and whole numbers: 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 >>
	S.3	Multiply money amounts: word problems >>
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.11**	Volume of rectangular prisms made of unit cubes >>
	EE.12	Volume of irregular figures made of unit cubes >>
Topic B: Volume and the Operations of Multiplication and Addition	**EE.11**	Volume of rectangular prisms made of unit cubes >>
	EE.13	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.4	Area of squares and rectangles >>
	EE.8	Area between two rectangles >>
	See also:	
	EE.7	Area of compound figures >>
	EE.10	Area and perimeter: word problems >>
Topic D: Drawing, Analysis, and Classification of Two-Dimensional Shapes	**AA.7**	Measure angles with a protractor >>
	BB.9	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.8	Graph and compare fractions on number lines >>
	U.4	Follow directions on a coordinate plane >>
Topic B: Patterns in the Coordinate Plane and Graphing Number Patterns from Rules	**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

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.8	Multiply two decimals >>
K.6	Convert between improper fractions and mixed numbers >>
M.8	Multiply fractions by whole numbers I >>
M.9	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 >>
S.1	Add and subtract money amounts >>
AA.5	Parallel, perpendicular, and intersecting lines >>
AA.6	Types of angles >>
AA.7	Measure angles with a protractor >>
BB.9	Classify quadrilaterals >>
EE.11	Volume of rectangular prisms made of unit cubes >>
EE.13	Volume of cubes and rectangular prisms >>

See also:

G.10	Compare decimal numbers >>
K.7	Least common denominator >>
BB.4	Parallel sides in quadrilaterals >>
DD.1	Identify three-dimensional figures >>
DD.2	Count vertices, edges, and faces >>