



IXL Skill Alignment

4th alignment for EngageNY Common Core Curriculum

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Module 1

Place Value, Rounding, and Algorithms for Addition and Subtraction

Textbook section	IXL skills
Topic A: Place Value of Multi-Digit Whole Numbers	A.2 Convert between standard and expanded form >>
	A.10 Write word names for numbers up to one million >>
Topic B: Comparing Multi-Digit Whole Numbers	
Topic C: Rounding Multi-Digit Whole Numbers	A.16 Rounding >>
	B.10 Estimate sums >>
	B.11 Estimate sums: word problems >>
	C.8 Estimate differences >>
	C.9 Estimate differences: word problems >>
	<i>See also:</i>
	D.15 Estimate products: word problems >>
Topic D: Multi-Digit Whole Number Addition	F.3 Estimate sums, differences, products, and quotients: word problems >>
	B.2 Add numbers up to millions >>
	B.4 Add numbers up to millions: word problems >>
Topic E: Multi-Digit Whole Number Subtraction	B.7 Add 3 or more numbers up to millions >>
	C.2 Subtract numbers up to millions >>
Topic F: Addition and Subtraction Word Problems	

Module 2

Unit Conversions and Problem Solving with Metric Measurement

Textbook section	IXL skills
Topic A: Metric Unit Conversions	N.12 Compare and convert metric units of length >>
	N.13 Compare and convert metric units of weight >>
	N.14 Compare and convert metric units of volume >>
Topic B: Application of Metric Unit Conversions	N.15 Compare and convert metric units >>
	<i>See also:</i> N.11 Which metric unit is appropriate? >>

Module 3

Multi-Digit Multiplication and Division

Textbook section	IXL skills
Topic A: Multiplicative Comparison Word Problems	
Topic B: Multiplication by 10, 100, and 1,000	
Topic C: Multiplication of up to Four Digits by Single-Digit Numbers	<p>D.6 Multiply 1-digit numbers by 2-digit numbers >></p> <p>D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >></p> <p>D.11 Distributive property: find the missing factor >></p> <p><i>See also:</i></p> <p>D.12 Multiply using the distributive property >></p>
Topic D: Multiplication Word Problems	
Topic E: Division of Tens and Ones with Successive Remainders	<p>E.4 Divide 2-digit numbers by 1-digit numbers >></p> <p>E.5 Divide 2-digit numbers by 1-digit numbers: word problems >></p> <p>E.7 Divide 2-digit numbers by 1-digit numbers: interpret remainders >></p>
Topic F: Reasoning with Divisibility	<p>A.14 Prime and composite - up to 20 >></p> <p>D.4 Choose the multiples of a given number up to 12 >></p> <p>D.5 Identify factors >></p>
Topic G: Division of Thousands, Hundreds, Tens, and Ones	<p>E.7 Divide 2-digit numbers by 1-digit numbers: interpret remainders >></p> <p>E.8 Divide larger numbers by 1-digit numbers >></p> <p>E.9 Divide larger numbers by 1-digit numbers: word problems >></p> <p>E.11 Divide larger numbers by 1-digit numbers: interpret remainders >></p>

Topic H: Multiplication of Two-Digit by Two-Digit Numbers

- D.18** Multiply a 2-digit number by a 2-digit number: complete the missing steps >>
- D.19** Multiply a 2-digit number by a 2-digit number >>

See also:

- D.20** Multiply a 2-digit number by a 2-digit number: word problems >>
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Module 4

Angle Measure and Plane Figures

Textbook section	IXL skills
Topic A: Lines and Angles	W.4 Lines, line segments, and rays >>
	W.5 Parallel, perpendicular, and intersecting lines >>
	Z.1 Acute, right, obtuse, and straight angles >>
Topic B: Angle Measurement	Z.2 Angles of 90, 180, 270, and 360 degrees >>
	Z.3 Measure angles with a protractor >>
	<i>See also:</i>
	Z.4 Estimate angle measurements >>
Topic C: Problem Solving with the Addition of Angle Measures	Z.5 Adjacent angles >>
Topic D: Two-Dimensional Figures and Symmetry	X.1 Acute, obtuse, and right triangles >>
	X.2 Scalene, isosceles, and equilateral triangles >>
	X.9 Classify quadrilaterals >>
	Y.1 Identify lines of symmetry >>

Module 5

Fraction Equivalence, Ordering, and Operations

Textbook section	IXL skills
Topic A: Decomposition and Fraction Equivalence	Q.1 Decompose fractions into unit fractions >>
	Q.2 Decompose fractions >>
	Q.3 Decompose fractions multiple ways >>
Topic B: Fraction Equivalence Using Multiplication and Division	P.5 Find equivalent fractions using area models >>
	P.6 Graph equivalent fractions on number lines >>
	<i>See also:</i> P.7 Equivalent fractions >>
Topic C: Fraction Comparison	P.12 Graph and compare fractions with like numerators or denominators on number lines >>
	P.13 Compare fractions with like numerators or denominators >>
	P.15 Benchmark fractions >>
	P.16 Compare fractions using benchmarks >>
	P.17 Compare fractions >>
	<i>See also:</i> P.14 Compare fractions using models >>
	Topic D: Fraction Addition and Subtraction
Q.6 Subtract fractions with like denominators using number lines >>	
Q.8 Add and subtract fractions with like denominators using number lines >>	
Q.9 Add and subtract fractions with like denominators >>	
Q.11 Add and subtract fractions with like denominators: word problems >>	
Q.12 Add and subtract fractions with like denominators in recipes >>	
Q.13 Add 3 or more fractions with like denominators >>	

R.2 Add fractions with unlike denominators >>

See also:

P.23 Convert between improper fractions and mixed numbers >>

R.1 Add fractions with unlike denominators using models >>

Topic E: Extending Fraction Equivalence to Fractions Greater Than 1

J.8 Create and interpret line plots with fractions >>

P.23 Convert between improper fractions and mixed numbers >>

S.1 Multiply unit fractions by whole numbers using number lines >>

S.5 Multiply unit fractions by whole numbers >>

Topic F: Addition and Subtraction of Fractions by Decomposition

Q.14 Add and subtract mixed numbers with like denominators >>

Topic G: Repeated Addition of Fractions as Multiplication

S.10 Multiply fractions by whole numbers >>

S.12 Multiply fractions by whole numbers: word problems >>

S.13 Multiply fractions and mixed numbers by whole numbers in recipes >>

See also:

J.8 Create and interpret line plots with fractions >>

S.7 Multiply fractions by whole numbers using number lines >>

S.8 Multiply fractions by whole numbers using models >>

Topic H: Exploring a Fraction Pattern

Module 6

Decimal Fractions

Textbook section	IXL skills
Topic A: Exploration of Tenths	
Topic B: Tenths and Hundredths	<p>T.1 What decimal number is illustrated? >></p> <p>T.2 Model decimals and fractions >></p> <p>T.6 Graph decimals on number lines >></p> <p>T.7 Decimal number lines >></p> <p>T.8 Graph fractions as decimals on number lines >></p> <p>T.12 Convert decimals between standard and expanded form using fractions >></p> <p><i>See also:</i></p> <p>P.8 Fractions with denominators of 10, 100, and 1000 >></p>
Topic C: Decimal Comparison	<p>T.14 Compare decimals on number lines >></p> <p>T.16 Put decimal numbers in order I >></p> <p>T.17 Put decimal numbers in order II >></p> <p>T.18 Compare decimals and fractions on number lines >></p> <p><i>See also:</i></p> <p>M.2 Compare money amounts >></p>
Topic D: Addition with Tenths and Hundredths	<p>R.5 Add fractions with denominators of 10 and 100 >></p> <p>U.10 Solve decimal problems using diagrams >></p>
Topic E: Money Amounts as Decimal Numbers	<p>M.4 Add and subtract money amounts >></p> <p>M.6 Making change >></p> <p>M.7 Price lists with addition and subtraction >></p> <p>M.8 Price lists with multiplication >></p> <p><i>See also:</i></p> <p>M.1 Count coins and bills - up to \$5 bill >></p>

Module 7

Exploring Measurement with Multiplication

Textbook section	IXL skills
Topic A: Measurement Conversion Tables	<p>N.5 Compare and convert customary units of volume >></p> <p><i>See also:</i></p> <p>N.3 Compare and convert customary units of length >></p> <p>N.6 Compare and convert customary units >></p> <p>N.8 Compare customary units by multiplying >></p> <p>O.1 Convert time units >></p>
Topic B: Problem Solving with Measurement	<p>O.2 Add and subtract mixed time units >></p> <p><i>See also:</i></p> <p>N.8 Compare customary units by multiplying >></p> <p>N.10 Add and subtract mixed customary units >></p>
Topic C: Investigation of Measurements Expressed as Mixed Numbers	
Topic D: Year in Review	<p>A.14 Prime and composite - up to 20 >></p> <p>B.2 Add numbers up to millions >></p> <p>C.2 Subtract numbers up to millions >></p> <p>D.6 Multiply 1-digit numbers by 2-digit numbers >></p> <p>D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >></p> <p>D.12 Multiply using the distributive property >></p> <p>D.19 Multiply a 2-digit number by a 2-digit number >></p> <p>E.4 Divide 2-digit numbers by 1-digit numbers >></p> <p>E.8 Divide larger numbers by 1-digit numbers >></p> <p>M.1 Count coins and bills - up to \$5 bill >></p>

- N.11** Which metric unit is appropriate? >>
 - N.12** Compare and convert metric units of length >>
 - N.13** Compare and convert metric units of weight >>
 - N.14** Compare and convert metric units of volume >>
 - N.15** Compare and convert metric units >>
 - P.23** Convert between improper fractions and mixed numbers >>
 - T.6** Graph decimals on number lines >>
 - T.8** Graph fractions as decimals on number lines >>
 - W.5** Parallel, perpendicular, and intersecting lines >>
 - X.2** Scalene, isosceles, and equilateral triangles >>
 - X.9** Classify quadrilaterals >>
 - Y.1** Identify lines of symmetry >>
 - Z.1** Acute, right, obtuse, and straight angles >>
 - Z.3** Measure angles with a protractor >>
 - BB.7** Area of complex figures (with all right angles) >>
 - BB.8** Area between two rectangles >>
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