



IXL Skill Alignment

4th alignment for enVisionMATH 2.0 Common Core Edition

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Topic 1

Generalize Place Value Understanding

Textbook section	IXL skills	
1-1: Numbers Through One Million	A.2	Convert between standard and expanded form >>
	A.10	Write word names for numbers up to one million >>
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1-2: Place Value Relationships		
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1-3: Compare Whole Numbers	A.21	Compare numbers up to one billion >>
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1-4: Round Whole Numbers	A.16	Rounding >>
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1-5: Construct Arguments		

Topic 2

Fluently Add and Subtract Multi-Digit Whole Numbers

Textbook section	IXL skills
2-1: Mental Math: Find Sums and Differences	B.2 Add numbers up to millions >> B.4 Add numbers up to millions: word problems >> C.2 Subtract numbers up to millions >> C.4 Subtract numbers up to millions: word problems >> <i>See also:</i> B.6 Properties of addition >> B.7 Add 3 or more numbers up to millions >>
2-2: Mental Math: Estimate Sums and Differences	B.10 Estimate sums >> B.11 Estimate sums: word problems >> C.8 Estimate differences >> C.9 Estimate differences: word problems >>
2-3: Add Whole Numbers	B.2 Add numbers up to millions >> B.4 Add numbers up to millions: word problems >> <i>See also:</i> B.7 Add 3 or more numbers up to millions >>
2-4: Subtract Whole Numbers	
2-5: Subtract Across Zeros	C.2 Subtract numbers up to millions >> C.4 Subtract numbers up to millions: word problems >> <i>See also:</i> B.5 Addition: fill in the missing digits >>
2-6: Reasoning	

Topic 3

Use Strategies and Properties to Multiply by 1-Digit Numbers

Textbook section	IXL skills
3-1: Mental Math: Multiply by Multiples of 10,100, and 1,000	D.9 Multiplication patterns over increasing place values >>
3-2: Mental Math: Round to Estimate Products	D.13 Estimate products - multiply by 1-digit numbers >>
3-3: The Distributive Property	D.11 Distributive property: find the missing factor >>
3-4: Mental Math Strategies for Multiplication	D.6 Multiply 1-digit numbers by 2-digit numbers >> D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >> <i>See also:</i> D.10 Properties of multiplication >>
3-5: Arrays and Partial Products	D.6 Multiply 1-digit numbers by 2-digit numbers >> D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
3-6: Use Partial Products to Multiply by 1-Digit Numbers	D.6 Multiply 1-digit numbers by 2-digit numbers >> D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
3-7: Multiply 2- and 3-Digit Numbers by 1-Digit Numbers	D.6 Multiply 1-digit numbers by 2-digit numbers >>
3-8: Multiply 4-Digit Numbers by 1-Digit Numbers	D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >> <i>See also:</i> D.8 Multiply 1-digit numbers by larger numbers >>

3-9: Multiply by 1-Digit Numbers**D.6** Multiply 1-digit numbers by 2-digit numbers >>**D.7** Multiply 1-digit numbers by 3-digit or 4-digit numbers >>*See also:***D.8** Multiply 1-digit numbers by larger numbers >>

3-10: Model with Math

Topic 4

Use Strategies and Properties to Multiply by 2-Digit Numbers

Textbook section	IXL skills	
4-1: Mental Math: Multiply Multiples of 10		
4-2: Use Models to Multiply 2-Digit Numbers by Multiples of 10		
4-3: Estimate: Use Rounding		
4-4: Estimate: Use Compatible Numbers		
4-5: Arrays and Partial Products		
4-6: Multiply Using the Distributive Property	D.12	Multiply using the distributive property >>
	D.19	Multiply a 2-digit number by a 2-digit number >>
	D.20	Multiply a 2-digit number by a 2-digit number: word problems >>
4-7: Use Partial Products to Multiply by 2-Digit Numbers	D.19	Multiply a 2-digit number by a 2-digit number >>
	D.20	Multiply a 2-digit number by a 2-digit number: word problems >>
4-8: Multiply 2-Digit Numbers by Multiples of 10		
4-9: Multiply 2-Digit Numbers by 2-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 >>
	D.20	Multiply a 2-digit number by a 2-digit number: word problems >>
4-10: Continue to Multiply by 2-Digit Numbers	D.19	Multiply a 2-digit number by a 2-digit number >>
	D.20	Multiply a 2-digit number by a 2-digit number: word problems >>
	BB.8	Area between two rectangles >>
4-11: Make Sense and Persevere	F.4	Word problems with extra or missing information >>

Topic 5

Use Strategies and Properties to Divide by 1-Digit Numbers

Textbook section	IXL skills
5-1: Mental Math: Find Quotients	E.14 Divide numbers ending in zeroes by 1-digit numbers >> <i>See also:</i> E.13 Division patterns over increasing place values >>
5-2: Mental Math: Estimate Quotients	
5-3: Mental Math: Estimate Quotients for Greater Dividends	E.15 Divide by 1-digit numbers: estimate quotients >>
5-4: Interpret Remainders	E.4 Divide 2-digit numbers by 1-digit numbers >> E.5 Divide 2-digit numbers by 1-digit numbers: word problems >> E.7 Divide 2-digit numbers by 1-digit numbers: interpret remainders >>
5-5: Division as Sharing	E.4 Divide 2-digit numbers by 1-digit numbers >> E.5 Divide 2-digit numbers by 1-digit numbers: word problems >>
5-6: Use Partial Quotients to Divide	
5-7: Use Partial Quotients to Divide: Greater Dividends	E.4 Divide 2-digit numbers by 1-digit numbers >> E.5 Divide 2-digit numbers by 1-digit numbers: word problems >> E.8 Divide larger numbers by 1-digit numbers >> E.9 Divide larger numbers by 1-digit numbers: word problems >>
5-8: Divide with 1-Digit Numbers	E.4 Divide 2-digit numbers by 1-digit numbers >> E.5 Divide 2-digit numbers by 1-digit numbers: word problems >>

E.7 Divide 2-digit numbers by 1-digit numbers: interpret remainders >>

5-9: Continue to Divide with 1-Digit Numbers

E.8 Divide larger numbers by 1-digit numbers >>

E.9 Divide larger numbers by 1-digit numbers: word problems >>

E.11 Divide larger numbers by 1-digit numbers: interpret remainders >>

E.15 Divide by 1-digit numbers: estimate quotients >>

5-10: Model with Math

Topic 6

Use Operations with Whole Numbers to Solve Problems

Textbook section	IXL skills	
6-1: Solve Comparison Situations		
6-2: Continue to Solve Comparison Situations		
6-3: Solve Multi-Step Problems	F.4	Word problems with extra or missing information >>
	F.6	Multi-step word problems >>
6-4: Solve More Multi-Step Problems	F.6	Multi-step word problems >>
6-5: Make Sense and Persevere		

Topic 7

Factors and Multiples

Textbook section	IXL skills
7-1: Understand Factors	
7-2: Factors	D.5 Identify factors >> <i>See also:</i> D.2 Multiplication facts up to 12: find the missing factor >>
7-3: Repeated Reasoning	
7-4: Prime and Composite Numbers	A.14 Prime and composite - up to 20 >>
7-5: Multiples	D.4 Choose the multiples of a given number up to 12 >>

Topic 8

Extend Understanding of Fraction Equivalence and Ordering

Textbook section	IXL skills
8-1: Equivalent Fractions: Area Models	P.5 Find equivalent fractions using area models >>
8-2: Equivalent Fractions: Number Lines	P.6 Graph equivalent fractions on number lines >>
8-3: Generate Equivalent Fractions: Multiplication	P.7 Equivalent fractions >>
	P.8 Fractions with denominators of 10, 100, and 1000 >>
	P.9 Patterns of equivalent fractions >>
8-4: Generate Equivalent Fractions: Division	P.7 Equivalent fractions >>
	<i>See also:</i> P.10 Write fractions in lowest terms >>
8-5: Use Benchmarks to Compare Fractions	P.15 Benchmark fractions >>
	P.16 Compare fractions using benchmarks >>
8-6: Compare Fractions	P.11 Compare fractions with like numerators or denominators using models >>
	P.12 Graph and compare fractions with like numerators or denominators on number lines >>
	P.13 Compare fractions with like numerators or denominators >>
	P.14 Compare fractions using models >>
	P.17 Compare fractions >>
	P.18 Compare fractions in recipes >>
	P.22 Find smaller or larger fractions >>
	<i>See also:</i>
	P.19 Graph and order fractions on number lines >>
	P.20 Order fractions with like numerators or denominators >>
	P.21 Order fractions >>

8-7: Construct Arguments

Topic 9

Understand Addition and Subtraction of Fractions

Textbook section	IXL skills	
9-1: Model Addition of Fractions		
9-2: Decompose Fractions	Q.1	Decompose fractions into unit fractions >>
	Q.2	Decompose fractions >>
	Q.3	Decompose fractions multiple ways >>
9-3: Add Fractions with Like Denominators	Q.13	Add 3 or more fractions with like denominators >>
9-4: Model Subtraction of Fractions	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 >>
9-5: Subtract Fractions with Like Denominators	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 >>
9-6: Add and Subtract Fractions with Like Denominators	Q.4	Add fractions with like denominators using number lines >>
	Q.6	Subtract fractions with like denominators using number lines >>
	Q.8	Add and subtract fractions with like denominators using number lines >>
9-7: Estimate Fraction Sums and Differences		
9-8: Model Addition and Subtraction of Mixed Numbers		
9-9: Add Mixed Numbers		

9-10: Subtract Mixed Numbers

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

See also:

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

9-11: Model with Math

Topic 10

Extend Multiplication Concepts to Fractions

Textbook section	IXL skills	
10-1: Fractions as Multiples of Unit Fractions: Use Models	S.3	Multiples of fractions >>
10-2: Multiply a Fraction by a Whole Number: Use Models	S.1	Multiply unit fractions by whole numbers using number lines >>
	S.2	Multiply unit fractions by whole numbers using models >>
	S.6	Multiply unit fractions by whole numbers: word problems >>
	S.7	Multiply fractions by whole numbers using number lines >>
	S.8	Multiply fractions by whole numbers using models >>
10-3: Multiply a Fraction by a Whole Number: Use Symbols	S.12	Multiply fractions by whole numbers: word problems >>
	S.5	Multiply unit fractions by whole numbers >>
	S.6	Multiply unit fractions by whole numbers: word problems >>
	S.10	Multiply fractions by whole numbers >>
	S.12	Multiply fractions by whole numbers: word problems >>
10-4: Multiply a Whole Number and a Mixed Number	<i>See also:</i>	
	S.4	Multiply unit fractions and whole numbers: sorting >>
	S.9	Multiply fractions and whole numbers: sorting >>
10-5: Solve Time Problems	O.2	Add and subtract mixed time units >>
	<i>See also:</i>	
	O.1	Convert time units >>

10-6: Model with Math

Topic 11

Represent and Interpret Data on Line Plots

Textbook section	IXL skills	
11-1: Read Line Plots	J.6	Interpret line plots >>
11-2: Make Line Plots	J.6	Interpret line plots >>
	J.7	Create line plots >>
11-3: Use Line Plots to Solve Problems	J.8	Create and interpret line plots with fractions >>
11-4: Critique Reasoning		

Topic 12

Understand and Compare Decimals

Textbook section	IXL skills
12-1: Fractions and Decimals	T.1 What decimal number is illustrated? >> T.2 Model decimals and fractions >>
12-2: Fractions and Decimals on the Number Line	T.6 Graph decimals on number lines >> T.7 Decimal number lines >> T.8 Graph fractions as decimals on number lines >>
12-3: Compare Decimals	M.2 Compare money amounts >> T.14 Compare decimals on number lines >> <i>See also:</i> T.5 Equivalent decimals >> T.15 Compare decimal numbers >> T.16 Put decimal numbers in order I >> T.17 Put decimal numbers in order II >>
12-4: Add Fractions with Denominators of 10 and 100	R.5 Add fractions with denominators of 10 and 100 >>
12-5: Solve Word Problems Involving Money	M.6 Making change >> M.7 Price lists with addition and subtraction >> <i>See also:</i> M.4 Add and subtract money amounts >> M.5 Add, subtract, multiply, and divide money amounts >> M.8 Price lists with multiplication >>
12-6: Look For and Use Structure	

Topic 13

Measurement: Find Equivalence in Units of Measure

Textbook section	IXL skills
13-1: Equivalence with Customary Units of Length	
13-2: Equivalence with Customary Units of Capacity	
13-3: Equivalence with Customary Units of Weight	
13-4: Equivalence with Metric Units of Length	
13-5: Equivalence with Metric Units of Capacity and Mass	
13-6: Solve Perimeter and Area Problems	BB.1 Perimeter >> BB.6 Find the area or missing side length of a rectangle >> BB.9 Compare area and perimeter of two figures >> BB.10 Relationship between area and perimeter >>
13-7: Precision	

Topic 14

Algebra: Generate and Analyze Patterns

Textbook section	IXL skills
14-1: Number Sequences	
14-2: Patterns: Number Rules	D.30 Multiplication input/output tables >>
14-3: Patterns: Repeating Shapes	L.1 Find the next shape in a repeating pattern >> L.2 Complete a repeating pattern >> <i>See also:</i> L.3 Make a repeating pattern >>
14-4: Look for and Use Structure	

Topic 15

Geometric Measurement: Understand Concepts of Angles and Angle Measurement

Textbook section	IXL skills
15-1: Lines, Rays, and Angles	W.4 Lines, line segments, and rays >> Z.1 Acute, right, obtuse, and straight angles >>
15-2: Understand Angles and Unit Angles	Z.2 Angles of 90, 180, 270, and 360 degrees >>
15-3: Measure with Unit Angles	
15-4: Measure and Draw Angles	Z.1 Acute, right, obtuse, and straight angles >> Z.3 Measure angles with a protractor >>
15-5: Add and Subtract Angle Measures	Z.5 Adjacent angles >>
15-6: Use Appropriate Tools	

Topic 16

Lines, Angles, and Shapes

Textbook section	IXL skills
16-1: Lines	
16-2: Classify Triangles	X.1 Acute, obtuse, and right triangles >> X.2 Scalene, isosceles, and equilateral triangles >>
16-3: Classify Quadrilaterals	X.9 Classify quadrilaterals >>
16-4: Line Symmetry	Y.1 Identify lines of symmetry >> Y.2 Draw lines of symmetry >> Y.3 Count lines of symmetry >>
16-5: Draw Shapes with Line Symmetry	
16-6: Critique Reasoning	