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 >>
1-2: Place Value Relationships		
1-3: Compare Whole Numbers	**A.21**	Compare numbers up to one billion >>
1-4: Round Whole Numbers	**A.16**	Rounding >>
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.1** Add numbers up to millions >> **B.2** Add numbers up to millions: word problems >> **C.1** Subtract numbers up to millions >> **C.2** Subtract numbers up to millions: word problems >> *See also:* **B.4** Properties of addition >> **B.5** Add 3 or more numbers up to millions >>
2-2: Mental Math: Estimate Sums and Differences	**B.8** Estimate sums >> **B.9** Estimate sums: word problems >> **C.6** Estimate differences >> **C.7** Estimate differences: word problems >>
2-3: Add Whole Numbers	**B.1** Add numbers up to millions >> **B.2** Add numbers up to millions: word problems >> *See also:* **B.5** Add 3 or more numbers up to millions >>
2-4: Subtract Whole Numbers	
2-5: Subtract Across Zeros	**C.1** Subtract numbers up to millions >> **C.2** Subtract numbers up to millions: word problems >> *See also:* **B.3** 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 >>
	See also:	
	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 >>
	See also:	
	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 >> *See also:* **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 >>
	See also:	
	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 >>
	See also:	
	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 >>
	See also:	
	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 >> **S.12** Multiply fractions by whole numbers: word problems >>
10-3: Multiply a Fraction by a Whole Number: Use Symbols	**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 >> *See also:* **S.4** Multiply unit fractions and whole numbers: sorting >> **S.9** Multiply fractions and whole numbers: sorting >>
10-4: Multiply a Whole Number and a Mixed Number	
10-5: Solve Time Problems	**O.2** Add and subtract mixed time units >> *See also:* **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 >>
	See also:	
	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 >>
	See also:	
	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 >>
	See also:	
	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		