



IXL Skill Alignment

5th alignment for enVisionMATH 2.0 Common Core Edition

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Topic 1

Understand Place Value

Textbook section	IXL skills
1-1: Patterns with Exponents and Powers of 10	
1-2: Understand Whole-Number Place Value	A.5 Write word names for numbers >> <i>See also:</i> A.1 Convert between standard and expanded form >>
1-3: Decimals to Thousandths	
1-4: Understand Decimal Place Value	G.6 Equivalent decimals >> G.16 Convert decimals between standard and expanded form using fractions >> <i>See also:</i> G.5 Convert decimals between standard and expanded form >>
1-5: Compare Decimals	G.10 Compare decimal numbers >> G.11 Put decimal numbers in order >> <i>See also:</i> G.9 Compare decimals on number lines >>
1-6: Round Decimals	G.7 Round decimals >>
1-7: Look for and Use Structure	

Topic 2

Add and Subtract Decimals to Hundredths

Textbook section	IXL skills
2-1: Mental Math	
2-2: Estimate Sums and Differences	H.8 Estimate sums and differences of decimals >>
2-3: Use Models to Add and Subtract Decimals	
2-4: Add Decimals	H.1 Add decimal numbers >>
2-5: Subtract Decimals	H.2 Subtract decimal numbers >>
2-6: Add and Subtract Decimals	G.19 Number sequences involving decimals >> H.3 Add and subtract decimal numbers >> H.4 Add and subtract decimals: word problems >> <i>See also:</i> H.5 Choose decimals with a particular sum or difference >> H.6 Complete the addition or subtraction sentence >> S.1 Add and subtract money amounts >> S.2 Add and subtract money: word problems >>
2-7: Model with Math	

Topic 3

Fluently Multiply Multi-Digit Whole Numbers

Textbook section	IXL skills
3-1: Multiply Greater Numbers by Powers of 10	
3-2: Estimate Products	C.8 Estimate products >> C.9 Estimate products: word problems >>
3-3: Multiply 3-Digit by 2-Digit Numbers	C.12 Multiply by 2-digit numbers: complete the missing steps >> C.13 Multiply 2-digit numbers by 2-digit numbers >> C.14 Multiply 2-digit numbers by 3-digit numbers >> <i>See also:</i> C.15 Multiply 2-digit numbers by larger numbers >> C.16 Multiply by 2-digit numbers: word problems >>
3-4: Multiply Whole Numbers with Zeros	
3-5: Multiply Multi-Digit Numbers	C.14 Multiply 2-digit numbers by 3-digit numbers >> C.15 Multiply 2-digit numbers by larger numbers >> C.16 Multiply by 2-digit numbers: word problems >>
3-6: Solve Word Problems Using Multiplication	C.16 Multiply by 2-digit numbers: word problems >>
3-7: Critique Reasoning	

Topic 4

Use Models and Strategies to Multiply Decimals

Textbook section	IXL skills
4-1: Multiply Decimals by Powers of 10	I.2 Multiply a decimal by a power of ten >>
4-2: Estimate the Product of a Decimal and a Whole Number	I.1 Estimate products of decimals >>
4-3: Use Models to Multiply a Decimal and a Whole Number	
4-4: Multiply a Decimal by a Whole Number	I.5 Multiply decimals and whole numbers: word problems >> <i>See also:</i> I.3 Multiply a decimal by a one-digit whole number >> S.3 Multiply money amounts: word problems >>
4-5: Use Models to Multiply a Decimal and a Decimal	I.7 Multiply two decimals using grids >>
4-6: Multiply Decimals Using Partial Products	
4-7: Use Properties to Multiply Decimals	
4-8: Use Number Sense to Multiply Decimals	
4-9: Multiply Decimals	
4-10: Model with Math	

Topic 5

Use Models and Strategies to Divide Whole Numbers

Textbook section	IXL skills
5-1: Use Patterns and Mental Math to Divide	
5-2: Estimate Quotients with 2-Digit Divisors	D.9 Estimate quotients >>
5-3: Use Models to Divide with 2-Digit Divisors	
5-4: Use Partial Quotients to Divide	
5-5: Divide by Multiples of 10	
5-6: Use Estimation to Place the First Digit of the Quotient	
5-7: Divide by 2-Digit Divisors	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 >>
5-8: Make Sense and Persevere	

Topic 6

Use Models and Strategies to Divide Decimals

Textbook section	IXL skills
6-1: Patterns for Dividing with Decimals	J.1 Divide by powers of ten >> J.2 Decimal division patterns over increasing place values >>
6-2: Estimate Decimal Quotients	
6-3: Use Models to Divide by a 1-Digit Whole Number	S.6 Unit prices >>
6-4: Divide by a 1-Digit Whole Number	S.6 Unit prices >>
6-5: Divide by a 2-Digit Whole Number	J.3 Division with decimal quotients >> S.4 Divide money amounts: word problems >> <i>See also:</i> J.4 Division with decimal quotients and rounding >> J.5 Division with decimal quotients: word problems >>
6-6: Use Number Sense to Divide Decimals	
6-7: Divide by a Decimal	
6-8: Continue to Divide with Decimals	
6-9: Reasoning	

Topic 7

Use Equivalent Fractions to Add and Subtract Fractions

Textbook section	IXL skills
7-1: Estimate Sums and Differences of Fractions	
7-2: Find Common Denominators	K.7 Least common denominator >>
7-3: Add Fractions with Unlike Denominators	K.7 Least common denominator >> L.6 Add fractions with unlike denominators using models >> L.8 Add fractions with unlike denominators >> <i>See also:</i> L.12 Add 3 or more fractions with unlike denominators >> L.13 Add 3 or more fractions: word problems >>
7-4: Subtract Fractions with Unlike Denominators	L.9 Subtract fractions with unlike denominators using models >> L.10 Subtract fractions with unlike denominators >>
7-5: Add and Subtract Fractions	L.8 Add fractions with unlike denominators >> L.10 Subtract fractions with unlike denominators >> <i>See also:</i> L.11 Add and subtract fractions with unlike denominators: word problems >> L.13 Add 3 or more fractions: word problems >> L.15 Complete addition and subtraction sentences with fractions >>
7-6: Estimate Sums and Differences of Mixed Numbers	L.17 Estimate sums and differences of mixed numbers >>
7-7: Use Models to Add Mixed Numbers	
7-8: Add Mixed Numbers	
7-9: Use Models to Subtract Mixed Numbers	

7-10: Subtract Mixed Numbers

7-11: Add and Subtract Mixed Numbers

7-12: Model with Math

Topic 8

Apply Understanding of Multiplication to Multiply Fractions

Textbook section	IXL skills
8-1: Use Models to Multiply a Whole Number by a Fraction	<p>M.2 Multiply unit fractions by whole numbers using models >></p> <p>M.6 Multiply fractions by whole numbers using models >></p> <p><i>See also:</i></p> <p>M.3 Multiples of fractions >></p>
8-2: Use Models to Multiply a Fraction by a Whole Number	
8-3: Multiply Fractions and Whole Numbers	<p>M.8 Multiply fractions by whole numbers I >></p> <p>M.9 Multiply fractions by whole numbers II >></p> <p><i>See also:</i></p> <p>M.10 Multiply fractions by whole numbers: word problems >></p>
8-4: Use Models to Multiply Two Fractions	<p>M.12 Multiply two unit fractions using models >></p> <p>M.13 Multiply two fractions using models: fill in the missing factor >></p> <p>M.14 Multiply two fractions using models >></p> <p>M.15 Multiply two fractions >></p>
8-5: Multiply Two Fractions	
8-6: Area of a Rectangle	
8-7: Multiply Mixed Numbers	M.22 Estimate products of mixed numbers >>

See also:

- 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 >>
- M.27** Multiplication with mixed numbers: word problems >>
- M.28** Multiply fractions and mixed numbers in recipes >>
- EE.4** Area of squares and rectangles >>

8-8: Multiplication as Scaling

- M.17** Scaling whole numbers by fractions >>
- M.18** Scaling fractions by fractions >>
- M.19** Scaling mixed numbers by fractions >>

8-9: Make Sense and Persevere

Topic 9

Apply Understanding of Division to Divide Fractions

Textbook section	IXL skills
9-1: Fractions and Division	
9-2: Fractions and Mixed Numbers as Quotients	
9-3: Use Multiplication to Divide	N.2 Divide whole numbers by unit fractions using models >> N.3 Divide whole numbers by unit fractions >>
9-4: Divide Whole Numbers by Unit Fractions	N.2 Divide whole numbers by unit fractions using models >> N.3 Divide whole numbers by unit fractions >>
9-5: Divide Unit Fractions by Non-Zero Whole Numbers	N.1 Divide unit fractions by whole numbers >> N.7 Divide unit fractions by whole numbers: word problems >>
9-6: Divide Whole Numbers and Unit Fractions	N.4 Divide whole numbers and unit fractions >>
9-7: Solve Problems Using Division	N.7 Divide unit fractions by whole numbers: word problems >>
9-8: Repeated Reasoning	

Topic 10

Understand Volume Concepts

Textbook section	IXL skills
10-1: Model Volume	EE.11 Volume of rectangular prisms made of unit cubes >> EE.12 Volume of irregular figures made of unit cubes >>
10-2: Develop a Volume Formula	EE.13 Volume of cubes and rectangular prisms >>
10-3: Volume of Prisms	EE.11 Volume of rectangular prisms made of unit cubes >> EE.13 Volume of cubes and rectangular prisms >>
10-4: Combine Volumes of Prisms	
10-5: Solve Word Problems Using Volume	
10-6: Use Appropriate Tools	

Topic 11

Convert Measurements

Textbook section	IXL skills
11-1: Convert Customary Units of Length	Z.2 Compare and convert customary units of length >>
11-2: Convert Customary Units of Capacity	Z.4 Compare and convert customary units of volume >>
11-3: Convert Customary Units of Weight	<p>Z.1 Choose the appropriate customary unit of measure >></p> <p>Z.3 Compare and convert customary units of weight >></p> <p>Z.5 Compare and convert customary units >></p> <p>Z.6 Conversion tables - customary units >></p> <p>Z.14 Convert customary units involving fractions >></p> <p>Z.15 Convert mixed customary units >></p> <p><i>See also:</i></p> <p>Z.13 Compare customary units by multiplying >></p> <p>Z.16 Add and subtract mixed customary units >></p>
11-4: Convert Metric Units of Length	Z.8 Compare and convert metric units of length >>
11-5: Convert Metric Units of Capacity	Z.10 Compare and convert metric units of volume >>
11-6: Convert Metric Units of Mass	<p>Z.7 Choose the appropriate metric unit of measure >></p> <p>Z.9 Compare and convert metric units of weight >></p> <p>Z.11 Compare and convert metric units >></p> <p>Z.12 Conversion tables - metric units >></p> <p><i>See also:</i></p> <p>Z.17 Convert metric mixed units >></p> <p>Z.18 Add and subtract metric mixed units >></p>

11-7: Solve Word Problems Using Measurement
Conversions

11-8: Precision

Topic 12

Represent and Interpret Data

Textbook section	IXL skills
12-1: Analyze Line Plots	W.10 Interpret line plots >>
12-2: Make Line Plots	W.11 Create line plots >> <i>See also:</i> W.12 Create and interpret line plots with fractions >>
12-3: Solve Word Problems Using Measurement Data	
12-4: Critique Reasoning	

Topic 13

Algebra: Write and Interpret Numerical Expressions

Textbook section	IXL skills
13-1: Order of Operations	O.4 Evaluate numerical expressions >>
13-2: Evaluate Expressions	O.4 Evaluate numerical expressions >>
13-3: Write Numerical Expressions	O.3 Write numerical expressions >>
13-4: Interpret Numerical Expressions	
13-5: Reasoning	P.1 Multi-step word problems >>

Topic 14

Graph Points on the Coordinate Plane

Textbook section	IXL skills
14-1: The Coordinate System	U.1 Objects on a coordinate plane >> <i>See also:</i> U.3 Coordinate planes as maps >>
14-2: Graph Data Using Ordered Pairs	U.2 Graph points on a coordinate plane >> <i>See also:</i> U.4 Follow directions on a coordinate plane >>
14-3: Solve Problems Using Ordered Pairs	
14-4: Reasoning	

Topic 15

Algebra: Analyze Patterns and Relationships

Textbook section	IXL skills
15-1: Numerical Patterns	
15-2: More Numerical Patterns	
15-3: Analyze and Graph Relationships	
15-4: Make Sense and Persevere	

Topic 16

Geometric Measurement: Classify Two-Dimensional Figures

Textbook section	IXL skills
16-1: Classify Triangles	BB.1 Acute, obtuse, and right triangles >> BB.2 Scalene, isosceles, and equilateral triangles >> BB.3 Classify triangles >>
16-2: Classify Quadrilaterals	BB.9 Classify quadrilaterals >>
16-3: Continue to Classify Quadrilaterals	BB.9 Classify quadrilaterals >>
16-4: Construct Arguments	