



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

## Topic 2

### Add and Subtract Decimals to Hundredths

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

# Topic 3

## Fluently Multiply Multi-Digit Whole Numbers

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

## Topic 4

### Use Models and Strategies to Multiply Decimals

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

## Topic 5

### Use Models and Strategies to Divide Whole Numbers

Textbook section	IXL skills	
<b>5-1:</b> Use Patterns and Mental Math to Divide		
<b>5-2:</b> Estimate Quotients with 2-Digit Divisors	<b>D.9</b>	Estimate quotients >>
<b>5-3:</b> Use Models to Divide with 2-Digit Divisors		
<b>5-4:</b> Use Partial Quotients to Divide		
<b>5-5:</b> Divide by Multiples of 10		
<b>5-6:</b> Use Estimation to Place the First Digit of the Quotient		
<b>5-7:</b> Divide by 2-Digit Divisors	<b>D.11</b>	Divide 2-digit and 3-digit numbers by 2-digit numbers >>
	<b>D.12</b>	Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >>
	<b>D.13</b>	Divide larger numbers by 2-digit numbers >>
	<b>D.14</b>	Divide larger numbers by 2-digit numbers: word problems >>
<b>5-8:</b> Make Sense and Persevere		

## Topic 6

### Use Models and Strategies to Divide Decimals

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

## Topic 7

### Use Equivalent Fractions to Add and Subtract Fractions

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



**7-10:** Subtract Mixed Numbers

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**7-11:** Add and Subtract Mixed Numbers

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**7-12:** Model with Math

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## Topic 8

### Apply Understanding of Multiplication to Multiply Fractions

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

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### **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 >>

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### **8-9:** Make Sense and Persevere

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## Topic 9

### Apply Understanding of Division to Divide Fractions

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

# Topic 10

## Understand Volume Concepts

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

# Topic 11

## Convert Measurements

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

**11-7:** Solve Word Problems Using Measurement  
Conversions

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**11-8:** Precision

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# Topic 12

## Represent and Interpret Data

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



# Topic 13

## Algebra: Write and Interpret Numerical Expressions

Textbook section	IXL skills	
<b>13-1:</b> Order of Operations	<b>O.4</b>	<a href="#">Evaluate numerical expressions &gt;&gt;</a>
<b>13-2:</b> Evaluate Expressions	<b>O.4</b>	<a href="#">Evaluate numerical expressions &gt;&gt;</a>
<b>13-3:</b> Write Numerical Expressions	<b>O.3</b>	<a href="#">Write numerical expressions &gt;&gt;</a>
<b>13-4:</b> Interpret Numerical Expressions		
<b>13-5:</b> Reasoning	<b>P.1</b>	<a href="#">Multi-step word problems &gt;&gt;</a>

# Topic 14

## Graph Points on the Coordinate Plane

Textbook section	IXL skills
<b>14-1:</b> The Coordinate System	<b>U.1</b> Objects on a coordinate plane >>  <i>See also:</i> <b>U.3</b> Coordinate planes as maps >>
<b>14-2:</b> Graph Data Using Ordered Pairs	<b>U.2</b> Graph points on a coordinate plane >>  <i>See also:</i> <b>U.4</b> Follow directions on a coordinate plane >>
<b>14-3:</b> Solve Problems Using Ordered Pairs	
<b>14-4:</b> 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
<b>16-1:</b> Classify Triangles	<b>BB.1</b> Acute, obtuse, and right triangles >>
	<b>BB.2</b> Scalene, isosceles, and equilateral triangles >>
	<b>BB.3</b> Classify triangles >>
<b>16-2:</b> Classify Quadrilaterals	<b>BB.9</b> Classify quadrilaterals >>
<b>16-3:</b> Continue to Classify Quadrilaterals	<b>BB.9</b> Classify quadrilaterals >>
<b>16-4:</b> Construct Arguments	