



# IXL Skill Alignment

5th alignment for enVisionMATH Common Core Edition

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# Topic 1

## Place Value

Textbook section	IXL skills
<b>1 - 1:</b> Place Value	<b>A.1</b> Convert between standard and expanded form >> <b>A.5</b> Write word names for numbers >>
<b>1 - 2:</b> Tenths and Hundredths	<b>G.1</b> What decimal number is illustrated? >>
<b>1 - 3:</b> Thousandths	<b>G.1</b> What decimal number is illustrated? >> <b>G.13</b> Convert mixed numbers to decimals >> <b>G.15</b> Convert decimals to mixed numbers >>
<b>1 - 4:</b> Decimal Place Value	<b>G.4</b> Place values in decimal numbers >> <b>G.6</b> Equivalent decimals >>
<b>1 - 5:</b> Comparing and Ordering Decimals	<b>G.9</b> Compare decimals on number lines >> <b>G.10</b> Compare decimal numbers >> <b>G.11</b> Put decimal numbers in order >>
<b>1 - 6:</b> Look for a Pattern	

## Topic 2

### Adding and Subtracting Decimals

Textbook section	IXL skills
<b>2 - 1:</b> Mental Math	
<b>2 - 2:</b> Rounding Whole Numbers and Decimals	<b>A.7</b> Rounding >> <b>G.7</b> Round decimals >>
<b>2 - 3:</b> Estimating Sums and Differences	<b>H.8</b> Estimate sums and differences of decimals >>  <i>See also:</i> <b>B.8</b> Estimate sums and differences of whole numbers >> <b>B.9</b> Estimate sums and differences: word problems >>
<b>2 - 4:</b> Modeling Addition and Subtraction of Differences	
<b>2 - 5:</b> Draw a Picture and Write an Equation	
<b>2 - 6:</b> Adding Decimals	<b>H.1</b> Add decimal numbers >>  <i>See also:</i> <b>S.1</b> Add and subtract money amounts >>
<b>2 - 7:</b> Subtracting Decimals	<b>H.2</b> Subtract decimal numbers >>  <i>See also:</i> <b>S.1</b> Add and subtract money amounts >>
<b>2 - 8:</b> Multiple-Step Problems	<b>P.1</b> Multi-step word problems >>

# Topic 3

## Multiplying Whole Numbers

Textbook section	IXL skills	
<b>3 - 1:</b> Multiplication	<b>C.6</b>	Properties of multiplication >>
<b>3 - 2:</b> Using Mental Math to Multiply	<b>C.3</b>	Multiplication patterns over increasing place values >>
	<b>C.4</b>	Multiply numbers ending in zeroes >>
	<b>C.5</b>	Multiply numbers ending in zeroes: word problems >>
<b>3 - 3:</b> Estimating Products		
<b>3 - 4:</b> Exponents	<b>E.1</b>	Understanding exponents >>
<b>3 - 5:</b> Distributive Property		
<b>3 - 6:</b> Multiplying by 1-Digit Numbers	<b>C.1</b>	Multiply by 1-digit numbers >>
	<b>C.2</b>	Multiply by 1-digit numbers: word problems >>
<b>3 - 7:</b> Multiplying 2-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>3 - 8:</b> Multiplying Greater Numbers	<b>C.14</b>	Multiply 2-digit numbers by 3-digit numbers >>
	<b>C.16</b>	Multiply by 2-digit numbers: word problems >>
<b>3 - 9:</b> Draw a Picture and Write an Equation		

# Topic 4

## Dividing by 1-Digit Divisors

Textbook section	IXL skills
<b>4 - 1:</b> Dividing Multiples of 10 and 100	
<b>4 - 2:</b> Estimating Quotients	<b>D.10</b> Estimate quotients: word problems >>
<b>4 - 3:</b> Reasonableness	
<b>4 - 4:</b> Connecting Models and Symbols	
<b>4 - 5:</b> Dividing by 1-Digit Divisors	<b>D.3</b> Divide multi-digit numbers by 1-digit numbers >> <b>D.4</b> Divide multi-digit numbers by 1-digit numbers: word problems >> <b>D.5</b> Divide by 1-digit numbers: interpret remainders >>
<b>4 - 6:</b> Zeros in the Quotient	
<b>4 - 7:</b> Draw a Picture and Write an Equation	<b>V.4</b> Write variable equations: word problems >>

# Topic 5

## Dividing by 2-Digit Divisors

Textbook section	IXL skills	
<b>5 - 1:</b> Using Patterns to Divide	<b>D.6</b>	Division patterns over increasing place values >>
	<b>D.7</b>	Divide numbers ending in zeroes >>
	<b>D.8</b>	Divide numbers ending in zeroes: word problems >>
<hr/>		
<b>5 - 2:</b> Estimating Quotients with 2-Digit Divisors		
<b>5 - 3:</b> Connecting Models and Symbols	<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 >>
<hr/>		
<b>5 - 4:</b> Dividing by Multiples of 10		
<b>5 - 5:</b> 1-Digit Quotients	<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 >>
<hr/>		
<b>5 - 6:</b> 2-Digit Quotients		
<b>5 - 7:</b> Estimating and Dividing with Greater Numbers	<b>D.10</b>	Estimate quotients: word problems >>
<b>5 - 8:</b> Missing or Extra Information	<b>P.2</b>	Word problems with extra or missing information >>

## Topic 6

### Multiplying Decimals

Textbook section	IXL skills	
<b>6 - 1:</b> Multiplying Decimals by 10, 100, or 1,000	<b>I.1</b>	Estimate products of decimals >>
<b>6 - 2:</b> Estimating the Product of a Decimal and a Whole Number		
<b>6 - 3:</b> Number Sense: Decimal Multiplication		
<b>6 - 4:</b> Models for Multiplying Decimals	<b>I.3</b>	Multiply a decimal by a one-digit whole number >>
	<b>I.7</b>	Multiply two decimals using grids >>
<b>6 - 5:</b> Multiplying a Decimal by a Whole Number	<b>I.3</b>	Multiply a decimal by a one-digit whole number >>
	<b>I.4</b>	Multiply a decimal by a multi-digit whole number >>
	<b>I.5</b>	Multiply decimals and whole numbers: word problems >>
	<b>S.3</b>	Multiply money amounts: word problems >>
<b>6 - 6:</b> Multiplying Two Decimals	<b>I.8</b>	Multiply two decimals >>
<b>6 - 7:</b> Multiple-Step Problems		

# Topic 7

## Dividing Decimals

Textbook section	IXL skills
7 - 1: Dividing Decimals by 10, 100, or 1,000	
7 - 2: Estimating Decimal Quotients	
7 - 3: Number Sense: Decimal Division	
7 - 4: Dividing by a Whole Number	<b>J.3</b> Division with decimal quotients >> <b>J.5</b> Division with decimal quotients: word problems >>  <i>See also:</i> <b>J.4</b> Division with decimal quotients and rounding >>
7 - 5: Dividing a Whole Number by a Decimal	
7 - 6: Dividing a Decimal by a Decimal	
7 - 7: Multiple - Step Problems	



## Topic 8

### Numerical Expressions, Patterns, and Relationships

Textbook section	IXL skills	
<b>8 - 1:</b> Using Variables to Write Expressions	<b>V.1</b>	<a href="#">Write variable expressions &gt;&gt;</a>
<b>8 - 2:</b> Order of Operations	<b>O.4</b>	<a href="#">Evaluate numerical expressions &gt;&gt;</a>
<b>8 - 3:</b> Simplifying Expressions	<b>O.4</b>	<a href="#">Evaluate numerical expressions &gt;&gt;</a>
<b>8 - 4:</b> Evaluating Expressions		
<b>8 - 5:</b> Addition and Subtraction Expressions		
<b>8 - 6:</b> Multiplication and Division Expressions	<b>C.23</b>	<a href="#">Multiplication input/output tables: find the rule &gt;&gt;</a>
<b>8 - 7:</b> Patterns: Extending Tables		
<b>8 - 8:</b> Variables and Expressions	<b>V.1</b>	<a href="#">Write variable expressions &gt;&gt;</a>
<b>8 - 9:</b> Act It Out and Use Reasoning		

## Topic 9

### Adding and Subtracting Fractions

Textbook section	IXL skills	
<b>9 - 1:</b> Equivalent Fractions	<b>K.4</b>	Equivalent fractions >>
<b>9 - 2:</b> Fractions in Simplest Form	<b>K.5</b>	Write fractions in lowest terms >>
<b>9 - 3:</b> Writing to Explain		
<b>9 - 4:</b> Estimating Sums and Differences of Fractions		
<b>9 - 5:</b> Common Multiples and Least Common Multiple	<b>F.7</b>	Least common multiple >>
<b>9 - 6:</b> Finding Common Denominators	<b>K.7</b>	Least common denominator >>
<b>9 - 7:</b> Adding Fractions with Unlike Denominators	<b>L.6</b>	Add fractions with unlike denominators using models >>
	<b>L.8</b>	Add fractions with unlike denominators >>
	<b>L.12</b>	Add 3 or more fractions with unlike denominators >>
<b>9 - 8:</b> Subtracting 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>9 - 9:</b> More Adding and Subtracting Fractions	<b>L.8</b>	Add fractions with unlike denominators >>
	<b>L.10</b>	Subtract fractions with unlike denominators >>
	<b>L.11</b>	Add and subtract fractions with unlike denominators: word problems >>
	<i>See also:</i>	
	<b>L.12</b>	Add 3 or more fractions with unlike denominators >>
<b>9 - 10:</b> Draw a Picture and Write an Equation	<b>L.13</b>	Add 3 or more fractions: word problems >>

# Topic 10

## Adding and Subtracting Mixed Numbers

Textbook section	IXL skills	
<b>10 - 1:</b> Improper Fractions and Mixed Numbers	<b>K.6</b>	Convert between improper fractions and mixed numbers >>
<b>10 - 2:</b> Estimating Sums and Differences of Mixed Numbers	<b>K.14</b>	Round mixed numbers >>
	<b>L.17</b>	Estimate sums and differences of mixed numbers >>
<b>10 - 3:</b> Modeling Addition and Subtraction of Mixed Numbers		
<b>10 - 4:</b> Adding Mixed Numbers	<b>L.18</b>	Add mixed numbers with unlike denominators >>
<b>10 - 5:</b> Subtracting Mixed Numbers	<b>L.19</b>	Subtract mixed numbers with unlike denominators >>
<b>10 - 6:</b> More Adding and Subtracting Mixed Numbers	<b>L.18</b>	Add mixed numbers with unlike denominators >>
	<b>L.19</b>	Subtract mixed numbers with unlike denominators >>
	<b>L.20</b>	Add and subtract mixed numbers: word problems >>
<b>10 - 7:</b> Draw a Picture and Write an Equation		

# Topic 11

## Multiplying and Dividing Fractions and Mixed Numbers

Textbook section	IXL skills	
11 - 1: Fractions and Division		
11 - 2: Multiplying Fractions and Whole Numbers	M.8	Multiply fractions by whole numbers I >>
11 - 3: Estimating Products	M.22	Estimate products of mixed numbers >>
11 - 4: Multiplying Two Fractions	M.14	Multiply two fractions using models >>
	M.15	Multiply two fractions >>
	M.16	Multiply two fractions: word problems >>
	M.20	Multiply three or more fractions and whole numbers >>
11 - 5: Area of a Rectangle		
11 - 6: Multiplying Mixed Numbers	M.22	Estimate products of mixed numbers >>
	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 >>
11 - 7: Multiplication as Scaling	M.17	Scaling whole numbers by fractions >>
	M.18	Scaling fractions by fractions >>
	M.19	Scaling mixed numbers by fractions >>
11 - 8: Multiple - Step Problems		
11 - 9: Dividing Whole Numbers by Unit Fractions	N.2	Divide whole numbers by unit fractions using models >>
	N.8	Divide whole numbers by fractions >>
11 - 10: Dividing Unit Fractions by Non - Zero Whole Numbers	N.7	Divide unit fractions by whole numbers: word problems >>

**11 - 11:** Draw a Picture and Write an Equation

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# Topic 12

## Volume of Solids

Textbook section	IXL skills
<b>12 - 1:</b> Solids	<b>DD.2</b> <a href="#">Count vertices, edges, and faces &gt;&gt;</a>  <i>See also:</i> <b>DD.3</b> <a href="#">Nets of three-dimensional figures &gt;&gt;</a>
<b>12 - 2:</b> Views of Solids	<b>DD.4</b> <a href="#">Three-dimensional figures viewed from different perspectives &gt;&gt;</a>
<b>12 - 3:</b> Use Objects and Solve a Simpler Problem	
<b>12 - 4:</b> Models and Volume	<b>EE.11</b> <a href="#">Volume of rectangular prisms made of unit cubes &gt;&gt;</a>  <i>See also:</i> <b>EE.12</b> <a href="#">Volume of irregular figures made of unit cubes &gt;&gt;</a>
<b>12 - 5:</b> Volume	<b>EE.13</b> <a href="#">Volume of cubes and rectangular prisms &gt;&gt;</a>
<b>12 - 6:</b> Combining Volumes	
<b>12 - 7:</b> Use Objects and Reasoning	<b>EE.12</b> <a href="#">Volume of irregular figures made of unit cubes &gt;&gt;</a>

# Topic 13

## Units of Measure

Textbook section	IXL skills
<b>13 - 1:</b> Converting Customary Units of Length	<b>Z.2</b> Compare and convert customary units of length >>
<b>13 - 2:</b> Converting Customary Units of Capacity	<b>Z.4</b> Compare and convert customary units of volume >>
<b>13 - 3:</b> Converting Customary Units of Weight	<b>Z.3</b> Compare and convert customary units of weight >>  <i>See also:</i> <b>Z.6</b> Conversion tables - customary units >> <b>Z.15</b> Convert mixed customary units >>
<b>13 - 4:</b> Converting Metric Units of Length	<b>Z.8</b> Compare and convert metric units of length >>
<b>13 - 5:</b> Converting Metric Units of Capacity	<b>Z.10</b> Compare and convert metric units of volume >>
<b>13 - 6:</b> Converting Metric Units of Mass	<b>Z.9</b> Compare and convert metric units of weight >>  <i>See also:</i> <b>Z.12</b> Conversion tables - metric units >>
<b>13 - 7:</b> Multiple - Step Problems	

# Topic 14

## Data

Textbook section	IXL skills
<b>14 - 1:</b> Line Plots	<b>W.10</b> Interpret line plots >> <b>W.11</b> Create line plots >>
<b>14 - 2:</b> Data from Surveys	<b>W.10</b> Interpret line plots >> <b>W.11</b> Create line plots >> <b>W.13</b> Frequency charts >>
<b>14 - 3:</b> Making Line Plots	
<b>14 - 4:</b> Measurement Data	
<b>14 - 5:</b> Writing to Explain	



# Topic 15

## Classifying Plane Figures

Textbook section	IXL skills
<b>15 - 1:</b> Polygons	<b>AA.1</b> Is it a polygon? >> <b>AA.2</b> Number of sides in polygons >> <b>AA.3</b> Regular and irregular polygons >>  <i>See also:</i> <b>BB.4</b> Parallel sides in quadrilaterals >>
<b>15 - 2:</b> Triangles	<b>BB.3</b> Classify triangles >>
<b>15 - 3:</b> Properties of Quadrilaterals	<b>BB.9</b> Classify quadrilaterals >>
<b>15 - 4:</b> Special Quadrilaterals	<b>BB.9</b> Classify quadrilaterals >>
<b>15 - 5:</b> Classifying Quadrilaterals	<b>BB.9</b> Classify quadrilaterals >>
<b>15 - 6:</b> Make and Test Generalizations	

# Topic 16

## Coordinate Geometry

Textbook section	IXL skills	
<b>16 - 1:</b> Ordered Pairs	<b>U.1</b>	<a href="#">Objects on a coordinate plane &gt;&gt;</a>
<b>16 - 2:</b> Distances on a Coordinate Plane	<b>U.3</b>	<a href="#">Coordinate planes as maps &gt;&gt;</a>
<b>16 - 3:</b> Solve a Simpler Problem	<b>U.3</b>	<a href="#">Coordinate planes as maps &gt;&gt;</a>
<b>16 - 4:</b> Patterns and Graphing	<b>W.3</b>	<a href="#">Create line graphs &gt;&gt;</a>
<b>16 - 5:</b> More Patterns and Graphing	<b>V.9</b>	<a href="#">Complete a table from a graph &gt;&gt;</a>
<b>16 - 6:</b> Work Backward	<b>U.4</b>	<a href="#">Follow directions on a coordinate plane &gt;&gt;</a>