



# IXL Skill Alignment

3rd alignment for enVisionMATH 2.0 Common Core Edition

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# Topic 1

## Understand Multiplication and Division of Whole Numbers

Textbook section	IXL skills
<b>1-1:</b> Multiplication as Repeated Addition	<p><b>E.1</b> Count equal groups &gt;&gt;</p> <p><b>E.4</b> Relate addition and multiplication for equal groups &gt;&gt;</p> <p><b>N.9</b> Relate addition and multiplication &gt;&gt;</p> <p><i>See also:</i></p> <p><b>E.2</b> Identify multiplication expressions for equal groups &gt;&gt;</p> <p><b>E.3</b> Write multiplication sentences for equal groups &gt;&gt;</p> <p><b>H.6</b> Multiplication word problems &gt;&gt;</p>
<b>1-2:</b> Multiplication on the Number Line	<p><b>E.8</b> Write multiplication sentences for number lines &gt;&gt;</p>
<b>1-3:</b> Arrays and Multiplication	<p><b>E.5</b> Identify multiplication expressions for arrays &gt;&gt;</p> <p><b>E.6</b> Write multiplication sentences for arrays &gt;&gt;</p> <p><b>E.7</b> Make arrays to model multiplication &gt;&gt;</p>
<b>1-4:</b> The Commutative Property	
<b>1-5:</b> Division as Sharing	<p><b>I.1</b> Divide by counting equal groups &gt;&gt;</p> <p><b>I.2</b> Write division sentences for groups &gt;&gt;</p> <p><b>I.4</b> Write division sentences for arrays &gt;&gt;</p> <p><b>L.5</b> Division word problems &gt;&gt;</p> <p><i>See also:</i></p> <p><b>K.7</b> Division facts up to 10 &gt;&gt;</p>
<b>1-6:</b> Division as Repeated Subtraction	<p><b>L.5</b> Division word problems &gt;&gt;</p>
<b>1-7:</b> Use Appropriate Tools	

## Topic 2

### Multiplication Facts: Use Patterns

Textbook section	IXL skills
<b>2-1:</b> 2 and 5 as Factors	<b>F.3</b> Multiply by 2 >> <b>F.6</b> Multiply by 5 >>
<b>2-2:</b> 9 as a Factor	<b>F.10</b> Multiply by 9 >>
<b>2-3:</b> Apply Properties: Multiply by 0 and 1	<b>F.1</b> Multiply by 0 >> <b>F.2</b> Multiply by 1 >>
<b>2-4:</b> Multiply by 10	<b>F.11</b> Multiply by 10 >>
<b>2-5:</b> Multiplication Facts: 0, 1, 2, 5, 9, and 10	
<b>2-6:</b> Model with Math	

## Topic 3

### Apply Properties: Multiplication Facts for 3, 4, 6, 7, and 8

Textbook section	IXL skills
<b>3-1:</b> The Distributive Property	
<b>3-2:</b> Apply Properties: 3 as a Factor	<b>F.4</b> Multiply by 3 >>
<b>3-3:</b> Apply Properties: 4 as a Factor	<b>F.5</b> Multiply by 4 >>
<b>3-4:</b> Apply Properties: 6 and 7 as Factors	<b>F.7</b> Multiply by 6 >> <b>F.8</b> Multiply by 7 >>
<b>3-5:</b> Apply Properties: 8 as a Factor	<b>F.9</b> Multiply by 8 >>
<b>3-6:</b> Practice Multiplication Facts	<b>G.1</b> Multiplication tables for 2, 3, 4, 5, and 10 >> <b>G.5</b> Multiplication tables for 6, 7, 8, and 9 >> <b>G.9</b> Multiplication tables up to 10 >> <b>H.6</b> Multiplication word problems >>
<b>3-7:</b> The Associative Property: Multiply with 3 Factors	<b>H.12</b> Multiply three or more numbers >> <b>H.13</b> Multiply three or more numbers: word problems >>  <i>See also:</i> <b>N.8</b> Solve using properties of multiplication >>
<b>3-8:</b> Repeated Reasoning	

# Topic 4

## Use Multiplication to Divide: Division Facts

Textbook section	IXL skills
<b>4-1:</b> Relate Multiplication and Division	<b>I.3</b> Relate multiplication and division for groups >>
	<b>I.5</b> Relate multiplication and division for arrays >>
	<i>See also:</i> <b>N.10</b> Relate multiplication and division >>
<b>4-2:</b> Use Multiplication to Divide with 2, 3, 4, and 5	<b>J.2</b> Divide by 2 >>
	<b>J.3</b> Divide by 3 >>
	<b>J.4</b> Divide by 4 >>
	<b>J.5</b> Divide by 5 >>
<b>4-3:</b> Use Multiplication to Divide with 6 and 7	<b>J.6</b> Divide by 6 >>
	<b>J.7</b> Divide by 7 >>
<b>4-4:</b> Use Multiplication to Divide with 8 and 9	<b>J.8</b> Divide by 8 >>
	<b>J.9</b> Divide by 9 >>
<b>4-5:</b> Multiplication Patterns: Even and Odd Numbers	<b>A.1</b> Even or odd >>
<b>4-6:</b> Division Involving 0 and 1	<b>J.1</b> Divide by 1 >>
<b>4-7:</b> Practice Multiplication and Division Facts	<b>G.9</b> Multiplication tables up to 10 >>
	<b>H.6</b> Multiplication word problems >>
	<b>H.7</b> Multiplication word problems: find the missing factor >>
	<b>K.7</b> Division facts up to 10 >>
	<b>L.5</b> Division word problems >>
	<b>M.9</b> Addition, subtraction, multiplication, and division word problems >>
	<b>M.12</b> Multi-step word problems >>
	<i>See also:</i> <b>G.12</b> Multiplication facts up to 10: find the missing factor >>

**4-8: Solve Multiplication and Division Equations**

- G.12** Multiplication facts up to 10: find the missing factor >>
- H.6** Multiplication word problems >>
- H.7** Multiplication word problems: find the missing factor >>
- K.10** Division facts up to 10: find the missing number >>
- L.5** Division word problems >>
- M.4** Multiplication and division facts up to 10: true or false? >>

*See also:*

- G.14** Multiplication sentences up to 10: true or false? >>
- K.12** Division sentences up to 10: true or false? >>

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**4-9: Make Sense and Persevere**

- M.12** Multi-step word problems >>

*See also:*

- H.13** Multiply three or more numbers: word problems >>
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# Topic 5

## Fluently Multiply and Divide within 100

Textbook section	IXL skills
<b>5-1:</b> Patterns for Multiplication Facts	
<b>5-2:</b> Use a Multiplication Table	<p><b>G.4</b> Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor &gt;&gt;</p> <p><b>G.8</b> Multiplication facts for 6, 7, 8, and 9: find the missing factor &gt;&gt;</p> <p><b>G.12</b> Multiplication facts up to 10: find the missing factor &gt;&gt;</p> <p><b>H.7</b> Multiplication word problems: find the missing factor &gt;&gt;</p> <p><b>K.1</b> Division facts for 2, 3, 4, 5, and 10 &gt;&gt;</p> <p><b>K.4</b> Division facts for 6, 7, 8, and 9 &gt;&gt;</p> <p><b>K.7</b> Division facts up to 10 &gt;&gt;</p> <p><b>L.5</b> Division word problems &gt;&gt;</p>
<b>5-3:</b> Find Missing Numbers in a Multiplication Table	
<b>5-4:</b> Use Strategies to Multiply	<p><b>G.9</b> Multiplication tables up to 10 &gt;&gt;</p> <p><b>H.6</b> Multiplication word problems &gt;&gt;</p>
<b>5-5:</b> Solve Word Problems: Multiplication and Division Facts	<p><b>H.6</b> Multiplication word problems &gt;&gt;</p> <p><b>H.7</b> Multiplication word problems: find the missing factor &gt;&gt;</p> <p><b>L.5</b> Division word problems &gt;&gt;</p> <p><i>See also:</i></p> <p><b>H.13</b> Multiply three or more numbers: word problems &gt;&gt;</p> <p><b>M.12</b> Multi-step word problems &gt;&gt;</p>
<b>5-6:</b> Write Math Stories: Multiplication	
<b>5-7:</b> Write Math Stories: Division	
<b>5-8:</b> Look For and Use Structure	

# Topic 6

## Connect Area to Multiplication and Addition

Textbook section	IXL skills
<b>6-1:</b> Cover Regions	<b>FF.6</b> Find the area of figures made of unit squares >>  <i>See also:</i> <b>FF.9</b> Create figures with a given area >>
<b>6-2:</b> Area: Nonstandard Units	
<b>6-3:</b> Area: Standard Units	
<b>6-4:</b> Area of Squares and Rectangles	<b>FF.10</b> Find the area of rectangles and squares >>
<b>6-5:</b> Apply Properties: Area and the Distributive Property	
<b>6-6:</b> Apply Properties: Area of Irregular Shapes	<b>FF.14</b> Find the area of complex figures >>
<b>6-7:</b> Look For and Use Structure	<b>FF.15</b> Find the area between two rectangles >>



# Topic 7

## Represent and Interpret Data

Textbook section	IXL skills
<b>7-1:</b> Read Picture Graphs and Bar Graphs	<b>U.5</b> Interpret bar graphs >> <b>U.11</b> Interpret pictographs >>
<b>7-2:</b> Make Picture Graphs	<b>U.12</b> Create pictographs >>
<b>7-3:</b> Make Bar Graphs	<b>U.5</b> Interpret bar graphs >> <b>U.7</b> Create bar graphs >>
<b>7-4:</b> Solve Word Problems Using Information in Graphs	<b>U.5</b> Interpret bar graphs >>
<b>7-5:</b> Precision	

# Topic 8

## Use Strategies and Properties to Add and Subtract

Textbook section	IXL skills
<b>8-1:</b> Addition Properties	<b>N.3</b> Properties of addition >> <b>N.4</b> Solve using properties of addition >>
<b>8-2:</b> Algebra: Addition Patterns	
<b>8-3:</b> Round Whole Numbers	<b>P.1</b> Rounding - nearest ten or hundred only >>
<b>8-4:</b> Mental Math: Addition	<b>C.1</b> Add two numbers up to three digits >>
<b>8-5:</b> Mental Math: Subtraction	<b>D.1</b> Subtract numbers up to three digits >> <b>D.3</b> Subtract numbers up to three digits - word problems >> <b>M.8</b> Addition and subtraction word problems >>
<b>8-6:</b> Estimate Sums	<b>P.5</b> Estimate sums up to 1,000 >>
<b>8-7:</b> Estimate Differences	<b>P.8</b> Estimate differences up to 1,000 >>
<b>8-8:</b> Relate Addition and Subtraction	<b>C.1</b> Add two numbers up to three digits >> <b>C.3</b> Add two numbers up to three digits - word problems >> <b>D.1</b> Subtract numbers up to three digits >> <b>D.3</b> Subtract numbers up to three digits - word problems >> <b>M.8</b> Addition and subtraction word problems >>  <i>See also:</i> <b>C.4</b> Complete the addition sentence - up to three digits >> <b>D.4</b> Complete the subtraction sentence - up to three digits >>
<b>8-9:</b> Model with Math	

# Topic 9

## Fluently Add and Subtract within 1,000

Textbook section	IXL skills
<b>9-1:</b> Use Partial Sums to Add	<b>C.1</b> Add two numbers up to three digits >>
	<i>See also:</i> <b>C.3</b> Add two numbers up to three digits - word problems >>
<b>9-2:</b> Add 3-Digit Numbers	<b>C.1</b> Add two numbers up to three digits >>
	<b>C.3</b> Add two numbers up to three digits - word problems >>
	<b>P.5</b> Estimate sums up to 1,000 >>
<b>9-3:</b> Continue to Add 3-Digit Numbers	<b>C.1</b> Add two numbers up to three digits >>
	<b>C.3</b> Add two numbers up to three digits - word problems >>
	<b>P.5</b> Estimate sums up to 1,000 >>
<b>9-4:</b> Add 3 or More Numbers	<b>C.6</b> Add three numbers up to three digits each >>
	<b>C.7</b> Add three numbers up to three digits each: word problems >>
<b>9-5:</b> Use Partial Difference to Subtract	<b>D.1</b> Subtract numbers up to three digits >>
	<b>D.3</b> Subtract numbers up to three digits - word problems >>
<b>9-6:</b> Subtract 3-Digit Numbers	<b>D.1</b> Subtract numbers up to three digits >>
	<b>D.3</b> Subtract numbers up to three digits - word problems >>
	<b>P.8</b> Estimate differences up to 1,000 >>
<b>9-7:</b> Continue to Subtract 3-Digit Numbers	<b>D.1</b> Subtract numbers up to three digits >>
	<b>D.3</b> Subtract numbers up to three digits - word problems >>
	<b>P.8</b> Estimate differences up to 1,000 >>
<b>9-8:</b> Construct Arguments	

# Topic 10

## Multiply by Multiples of 10

Textbook section	IXL skills
<b>10-1:</b> Use an Open Number Line to Multiply	<b>H.1</b> Multiply by a multiple of ten >>
<b>10-2:</b> Use Properties to Multiply	
<b>10-3:</b> Multiply by Multiples of 10	<b>H.1</b> Multiply by a multiple of ten >>
<b>10-4:</b> Look for and Use Structure	

# Topic 11

## Use Operations with Whole Number to Solve Problems

Textbook section	IXL skills
<b>11-1:</b> Solve 2-Step Word Problems: Addition and Subtraction	
<b>11-2:</b> Solve 2-Step Word Problems: Multiplication and Division	
<b>11-3:</b> Solve 2-Step Word Problems: All Operations	
<b>11-4:</b> Critique Reasoning	

# Topic 12

## Understand Fractions as Numbers

Textbook section	IXL skills
<b>12-1:</b> Divide Regions into Equal Parts	<p><b>W.1</b> Identify equal parts &gt;&gt;</p> <p><b>W.7</b> Match unit fractions to models &gt;&gt;</p>
<b>12-2:</b> Fractions and Regions	<p><b>W.2</b> Understand fractions: fraction bars &gt;&gt;</p> <p><b>W.3</b> Understand fractions: area models &gt;&gt;</p> <p><b>W.4</b> Show fractions: fraction bars &gt;&gt;</p> <p><b>W.5</b> Show fractions: area models &gt;&gt;</p> <p><b>W.6</b> Match fractions to models: halves, thirds, and fourths &gt;&gt;</p> <p><b>W.8</b> Match fractions to models &gt;&gt;</p> <p><i>See also:</i></p> <p><b>W.18</b> Fractions of a whole: modeling word problems &gt;&gt;</p>
<b>12-3:</b> Understand the Whole	
<b>12-4:</b> Number Line: Fractions Less Than 1	<p><b>W.11</b> Identify unit fractions on number lines &gt;&gt;</p> <p><b>W.12</b> Identify fractions on number lines &gt;&gt;</p> <p><b>W.13</b> Graph unit fractions on number lines &gt;&gt;</p> <p><i>See also:</i></p> <p><b>W.9</b> Fractions of number lines: unit fractions &gt;&gt;</p> <p><b>W.10</b> Fractions of number lines &gt;&gt;</p>
<b>12-5:</b> Number Line: Fractions Greater Than 1	<p><b>W.14</b> Graph fractions on number lines &gt;&gt;</p> <p><b>X.7</b> Graph fractions equivalent to 1 on number lines &gt;&gt;</p> <p><i>See also:</i></p> <p><b>W.15</b> Graph smaller or larger fractions on a number line &gt;&gt;</p>
<b>12-6:</b> Line Plots and Length	

**12-7: More Line Plots and Length****BB.3** Measure using an inch ruler >>*See also:***U.8** Interpret line plots >>**U.9** Create line plots >>

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**12-8: Make Sense and Persevere****W.20** Fractions of a group: word problems >>*See also:***W.17** Unit fractions: word problems >>**W.19** Fractions of a whole: word problems >>

# Topic 13

## Fraction Equivalence and Comparison

Textbook section	IXL skills
<b>13-1:</b> Equivalent Fractions: Use Models	<b>X.1</b> Find equivalent fractions using area models >>
<b>13-2:</b> Equivalent Fractions: Use the Number Line	<b>X.2</b> Identify equivalent fractions on number lines >>
	<b>X.3</b> Find equivalent fractions using number lines >>
	<b>X.5</b> Select equivalent fractions >>
	<i>See also:</i>
	<b>X.4</b> Graph equivalent fractions on number lines >>
<b>13-3:</b> Use Models to Compare Fractions: Same Denominator	<b>X.6</b> Find equivalent fractions >>
	<b>Y.10</b> Order fractions with like denominators >>
<b>13-4:</b> Use Models to Compare Fractions: Same Numerator	<b>Y.1</b> Compare fractions using models >>
	<b>Y.6</b> Compare fractions >>
	<i>See also:</i>
	<b>Y.11</b> Order fractions with like numerators >>
	<b>Y.12</b> Order fractions >>
<b>13-5:</b> Compare Fractions: Use Benchmarks	<b>Y.6</b> Compare fractions >>
	<i>See also:</i>
<b>13-6:</b> Compare Fractions: Use the Number Line	<b>Y.8</b> Benchmark fractions >>
	<b>Y.2</b> Compare fractions using number lines >>
	<b>Y.3</b> Graph and compare fractions with like denominators on number lines >>
	<b>Y.4</b> Graph and compare fractions with like numerators on number lines >>
	<b>Y.5</b> Graph and compare fractions on number lines >>



*See also:*

**Y.9** Graph and order fractions on number lines >>

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**13-7: Whole Numbers and Fractions**

**X.8** Select fractions equivalent to whole numbers using area models >>

*See also:*

**X.7** Graph fractions equivalent to 1 on number lines >>

**X.9** Find fractions equivalent to whole numbers >>

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**13-8: Construct Arguments**

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# Topic 14

## Solve Time, Capacity, and Mass Problems

Textbook section	IXL skills
<b>14-1:</b> Time to the Minute	<b>T.1</b> Match clocks and times >> <b>T.2</b> Match analog and digital clocks >> <b>T.3</b> Read clocks and write times >> <b>T.5</b> Write times >>
<b>14-2:</b> Units of Time: Measure Elapsed Time	<b>T.6</b> Elapsed time >> <b>T.7</b> Elapsed time word problems I >>
<b>14-3:</b> Units of Time: Solve Word Problems	
<b>14-4:</b> Estimate Liquid Volume	<b>BB.15</b> Which metric unit of volume is appropriate? >>
<b>14-5:</b> Measure Liquid Volume	<b>BB.15</b> Which metric unit of volume is appropriate? >>
<b>14-6:</b> Estimate Mass	<b>BB.14</b> Which metric unit of weight is appropriate? >> <b>BB.21</b> Choose the appropriate measuring tool >>
<b>14-7:</b> Measure Mass	<b>BB.14</b> Which metric unit of weight is appropriate? >>
<b>14-8:</b> Solve Word Problems Involving Mass and Liquid Volume	
<b>14-9:</b> Reasoning	

# Topic 15

## Attributes of Two-Dimensional Shapes

Textbook section	IXL skills
<b>15-1:</b> Describe Quadrilaterals	<b>DD.8</b> <a href="#">Classify quadrilaterals &gt;&gt;</a>
<b>15-2:</b> Classify Shapes	<b>U.16</b> <a href="#">Sort shapes into a Venn diagram &gt;&gt;</a>
<b>15-3:</b> Analyze and Compare Quadrilaterals	
<b>15-4:</b> Precision	

# Topic 16

## Solve Perimeter Problems

Textbook section	IXL skills
<b>16-1:</b> Understand Perimeter	
<b>16-2:</b> Perimeter of Common Shapes	<b>FF.1</b> Perimeter of rectangles >>
<b>16-3:</b> Perimeter and Unknown Side Lengths	<b>FF.4</b> Perimeter: find the missing side length >>
<b>16-4:</b> Same Perimeter, Different Area	<b>FF.10</b> Find the area of rectangles and squares >> <b>FF.16</b> Compare area and perimeter of two figures >>
<b>16-5:</b> Same Area, Different Perimeter	<b>FF.18</b> Relationship between area and perimeter I >>
<b>16-6:</b> Reasoning	<b>FF.17</b> Use area and perimeter to determine cost >>