



# IXL Skill Alignment

3rd alignment for Eureka Math Common Core Curriculum

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# Module 1

## Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10

Textbook section	IXL skills	
<b>Topic A:</b> Multiplication and the Meaning of the Factors	<b>E.1</b>	Count equal groups >>
	<b>E.2</b>	Identify multiplication expressions for equal groups >>
	<b>E.3</b>	Write multiplication sentences for equal groups >>
	<b>E.4</b>	Relate addition and multiplication for equal groups >>
	<b>E.5</b>	Identify multiplication expressions for arrays >>
	<b>E.6</b>	Write multiplication sentences for arrays >>
	<b>E.7</b>	Make arrays to model multiplication >>
	<b>N.9</b>	Relate addition and multiplication >>
<b>Topic B:</b> Division as an Unknown Factor Problem	<b>I.1</b>	Divide by counting equal groups >>
	<b>I.2</b>	Write division sentences for groups >>
	<b>I.3</b>	Relate multiplication and division for groups >>
	<b>I.4</b>	Write division sentences for arrays >>
	<b>I.5</b>	Relate multiplication and division for arrays >>
<b>Topic C:</b> Multiplication Using Units of 2 and 3	<b>A.3</b>	Skip-counting >>
	<b>F.3</b>	Multiply by 2 >>
	<b>F.4</b>	Multiply by 3 >>
<b>Topic D:</b> Division Using Units of 2 and 3		
<b>Topic E:</b> Multiplication and Division Using Units of 4	<b>F.5</b>	Multiply by 4 >>
<b>Topic F:</b> Distributive Property and Problem Solving Using Units of 2-5 and 10		

## Module 2

### Place Value and Problem Solving with Units of Measure

Textbook section	IXL skills
<b>Topic A:</b> Time Measurement and Problem Solving	
<b>Topic B:</b> Measuring Weight and Liquid Volume in Metric Units	<b>BB.14</b> Which metric unit of weight is appropriate? >> <b>BB.19</b> Compare and convert metric units of volume >>
<b>Topic C:</b> Rounding to the Nearest Ten and Hundred	<b>P.1</b> Rounding - nearest ten or hundred only >>
<b>Topic D:</b> Two- and Three-Digit Measurement Addition Using the Standard Algorithm	<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>Topic E:</b> Two- and Three-Digit Measurement Subtraction Using the Standard Algorithm	<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 >>

## Module 3

### Multiplication and Division with Units of 0, 1, 6-9, and Multiples of 10

Textbook section	IXL skills
<b>Topic A:</b> The Properties of Multiplication and Division	<b>G.5</b> Multiplication tables for 6, 7, 8, and 9 >>
	<b>G.8</b> Multiplication facts for 6, 7, 8, and 9: find the missing factor >>
	<b>G.12</b> Multiplication facts up to 10: find the missing factor >>
	<b>K.10</b> Division facts up to 10: find the missing number >>
	<b>O.3</b> Solve for the variable: multiplication and division >>
	<i>See also:</i>
	<b>G.6</b> Multiplication facts for 6, 7, 8, and 9: true or false? >>
<b>Topic B:</b> Multiplication and Division Using Units of 6 and 7	<b>F.7</b> Multiply by 6 >>
	<b>F.8</b> Multiply by 7 >>
	<b>J.6</b> Divide by 6 >>
	<b>J.7</b> Divide by 7 >>
<b>Topic C:</b> Multiplication and Division Using Units up to 8	<b>F.9</b> Multiply by 8 >>
	<b>H.6</b> Multiplication word problems >>
	<b>J.8</b> Divide by 8 >>
	<b>L.5</b> Division word problems >>
	<b>N.2</b> Understanding parentheses >>
<b>Topic D:</b> Multiplication and Division Using Units of 9	<b>F.10</b> Multiply by 9 >>
	<b>J.9</b> Divide by 9 >>
<b>Topic E:</b> Analysis of Patterns and Problem Solving Including Units of 0 and 1	<b>F.1</b> Multiply by 0 >>
	<b>F.2</b> Multiply by 1 >>
	<b>J.1</b> Divide by 1 >>
	<b>N.6</b> Distributive property: find the missing factor >>
<b>Topic F:</b> Multiplication of Single-Digit Factors and Multiples of 10	<b>H.1</b> Multiply by a multiple of ten >>

# Module 4

## Multiplication and Area

Textbook section	IXL skills
<b>Topic A:</b> Foundations for Understanding Area	<b>FF.6</b> Find the area of figures made of unit squares >> <b>FF.9</b> Create figures with a given area >>
<b>Topic B:</b> Concepts of Area Measurement	<b>FF.10</b> Find the area of rectangles and squares >>
<b>Topic C:</b> Arithmetic Properties Using Area Models	
<b>Topic D:</b> Applications of Area Using Side Lengths of Figures	<b>FF.9</b> Create figures with a given area >> <b>FF.10</b> Find the area of rectangles and squares >> <b>FF.13</b> Find the area of rectangles: word problems >> <b>FF.15</b> Find the area between two rectangles >>  <i>See also:</i> <b>FF.14</b> Find the area of complex figures >>

# Module 5

## Fractions as Numbers on the Number Line

Textbook section	IXL skills	
<b>Topic A:</b> Partition a Whole into Equal Parts	<b>W.1</b>	Identify equal parts >>
<b>Topic B:</b> Unit Fractions and Their Relation to the Whole	<b>W.1</b>	Identify equal parts >>
	<b>W.2</b>	Understand fractions: fraction bars >>
	<b>W.3</b>	Understand fractions: area models >>
	<b>W.4</b>	Show fractions: fraction bars >>
	<b>W.5</b>	Show fractions: area models >>
	<b>W.6</b>	Match fractions to models: halves, thirds, and fourths >>
	<b>W.7</b>	Match unit fractions to models >>
	<b>W.8</b>	Match fractions to models >>
	<b>W.17</b>	Unit fractions: word problems >>
<b>Topic C:</b> Comparing Unit Fractions and Specifying the Whole		
<b>Topic D:</b> Fractions on the Number Line	<b>W.13</b>	Graph unit fractions on number lines >>
	<b>W.14</b>	Graph fractions on number lines >>
	<b>W.15</b>	Graph smaller or larger fractions on a number line >>
	<b>X.7</b>	Graph fractions equivalent to 1 on number lines >>
	<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 >>
	<b>Y.6</b>	Compare fractions >>
	<b>Y.9</b>	Graph and order fractions on number lines >>

*See also:*

**W.11** Identify unit fractions on number lines >>

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

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**Topic E:** Equivalent Fractions

**W.11** Identify unit fractions on number lines >>

**W.12** Identify fractions on number lines >>

**X.2** Identify equivalent fractions on number lines >>

**X.3** Find equivalent fractions using number lines >>

**X.4** Graph equivalent fractions on number lines >>

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

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

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

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**Topic F:** Comparison, Order, and Size of Fractions

**Y.4** Graph and compare fractions with like numerators on number lines >>

**Y.11** Order fractions with like numerators >>

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# Module 6

## Collecting and Displaying Data

Textbook section	IXL skills
<b>Topic A:</b> Generate and Analyze Categorical Data	<b>U.4</b> Interpret tally charts and tables >>
	<b>U.5</b> Interpret bar graphs >>
	<b>U.7</b> Create bar graphs >>
	<b>U.8</b> Interpret line plots >>
	<b>U.11</b> Interpret pictographs >>
	<b>U.12</b> Create pictographs >>
<b>Topic B:</b> Generate and Analyze Measurement Data	<b>U.4</b> Interpret tally charts and tables >>
	<b>U.5</b> Interpret bar graphs >>
	<b>U.7</b> Create bar graphs >>
	<b>U.8</b> Interpret line plots >>
	<b>U.9</b> Create line plots >>
	<b>U.11</b> Interpret pictographs >>
	<b>U.12</b> Create pictographs >>
	<b>BB.3</b> Measure using an inch ruler >>



# Module 7

## Geometry and Measurement Word Problems

Textbook section	IXL skills
<b>Topic A:</b> Solving Word Problems	
<b>Topic B:</b> Attributes of Two-Dimensional Figures	<b>CC.2</b> Count and compare sides and vertices >> <b>DD.8</b> Classify quadrilaterals >> <b>FF.6</b> Find the area of figures made of unit squares >> <b>FF.10</b> Find the area of rectangles and squares >>
<b>Topic C:</b> Problem Solving with Perimeter	<b>FF.1</b> Perimeter of rectangles >> <b>FF.4</b> Perimeter: find the missing side length >>
<b>Topic D:</b> Recording Perimeter and Area Data on Line Plots	<b>U.8</b> Interpret line plots >> <b>U.9</b> Create line plots >> <b>FF.9</b> Create figures with a given area >> <b>FF.16</b> Compare area and perimeter of two figures >>
<b>Topic E:</b> Problem Solving with Perimeter and Area	<b>FF.1</b> Perimeter of rectangles >> <b>FF.13</b> Find the area of rectangles: word problems >> <b>FF.15</b> Find the area between two rectangles >> <i>See also:</i> <b>FF.14</b> Find the area of complex figures >> <b>FF.18</b> Relationship between area and perimeter I >>
<b>Topic F:</b> Year in Review	<b>A.3</b> Skip-counting >> <b>C.1</b> Add two numbers up to three digits >> <b>D.1</b> Subtract numbers up to three digits >> <b>E.1</b> Count equal groups >> <b>E.2</b> Identify multiplication expressions for equal groups >> <b>E.3</b> Write multiplication sentences for equal groups >>

- E.4** Relate addition and multiplication for equal groups >>
  - E.5** Identify multiplication expressions for arrays >>
  - E.7** Make arrays to model multiplication >>
  - G.15** Multiplication tables up to 12 >>
  - G.17** Multiplication facts up to 12: find the missing factor >>
  - I.1** Divide by counting equal groups >>
  - I.2** Write division sentences for groups >>
  - I.4** Write division sentences for arrays >>
  - K.7** Division facts up to 10 >>
  - N.2** Understanding parentheses >>
  - N.6** Distributive property: find the missing factor >>
  - P.1** Rounding - nearest ten or hundred only >>
  - U.5** Interpret bar graphs >>
  - U.7** Create bar graphs >>
  - U.8** Interpret line plots >>
  - U.9** Create line plots >>
  - W.4** Show fractions: fraction bars >>
  - W.5** Show fractions: area models >>
  - W.6** Match fractions to models: halves, thirds, and fourths >>
  - W.7** Match unit fractions to models >>
  - W.8** Match fractions to models >>
  - BB.3** Measure using an inch ruler >>
  - DD.8** Classify quadrilaterals >>
  - FF.1** Perimeter of rectangles >>
  - FF.10** Find the area of rectangles and squares >>
  - FF.16** Compare area and perimeter of two figures >>
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