



# IXL Skill Alignment

3rd grade alignment for GO MATH! COMMON CORE EDITION

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# Chapter 1

## Addition and Subtraction Within 1,000

Textbook section	IXL skills
<b>1.1:</b> Number Patterns	<b>A.4</b> Even and odd I >> <b>A.5</b> Even and odd II >> <i>See also:</i> <b>N.3</b> Properties of addition >>
<b>1.2:</b> Round to the Nearest Ten or Hundred	<b>P.1</b> Rounding - nearest ten or hundred only >>
<b>1.3:</b> Estimate Sums	<b>P.6</b> Estimate sums up to 1,000 >>
<b>1.4:</b> Mental Math Strategies for Addition	
<b>1.5:</b> Use Properties to Add	<b>N.3</b> Properties of addition >> <i>See also:</i> <b>C.6</b> Add three or more numbers up to three digits each >> <b>N.4</b> Solve using properties of addition >>
<b>1.6:</b> Use the Break Apart Strategy to Add	
<b>1.7:</b> Use Place Value to Add	<b>C.1</b> Add two numbers up to three digits >> <b>C.3</b> Add two numbers up to three digits – word problems >> <i>See also:</i> <b>C.4</b> Complete the addition sentence – up to three digits >> <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>C.16</b> Addition: fill in the missing digits >>
<b>1.8:</b> Estimate Differences	<b>P.8</b> Estimate differences up to 1,000 >> <b>P.9</b> Estimate differences >>
<b>1.9:</b> Mental Math Strategies for Subtraction	

**1.10:** Use Place Value to Subtract

**D.1** Subtract numbers up to three digits >>

**D.3** Subtract numbers up to three digits - word problems >>

*See also:*

**D.4** Complete the subtraction sentence - up to three digits >>

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**1.11:** Combine Place Values to Subtract

**D.1** Subtract numbers up to three digits >>

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**1.12:** Problem Solving – Model Addition and Subtraction

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## Chapter 2

### Represent and Interpret Data

Textbook section	IXL skills
<b>2.1:</b> Problem Solving – Organize Data	<b>T.4</b> Interpret tally charts and tables >>
<b>2.2:</b> Use Picture Graphs	<b>T.9</b> Interpret pictographs >>
<b>2.3:</b> Make Picture Graphs	<b>T.10</b> Create pictographs >>
<b>2.4:</b> Use Bar Graphs	<b>T.5</b> Interpret bar graphs >>
<b>2.5:</b> Make Bar Graphs	<b>T.6</b> Create bar graphs >>
<b>2.6:</b> Solve Problems Using Data	<b>T.5</b> Interpret bar graphs >>
<b>2.7:</b> Use and Make Line Plots	<b>T.7</b> Interpret line plots >>
	<b>T.8</b> Create line plots >>

# Chapter 3

## Understand Multiplication

Textbook section	IXL skills
<b>3.1:</b> Count Equal Groups	<b>E.1</b> Count equal groups >>
<b>3.2:</b> Relate Addition and Multiplication	<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>N.9</b> Relate addition and multiplication >>
<b>3.3:</b> Skip Count on a Number Line	<b>E.8</b> Write multiplication sentences for number lines >>
<b>3.4:</b> Problem Solving – Model Multiplication	
<b>3.5:</b> Model with Arrays	<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>3.6:</b> Commutative Property of Multiplication	
<b>3.7:</b> Multiply with 1 and 0	<b>F.1</b> Multiply by 0 >> <b>F.2</b> Multiply by 1 >>

# Chapter 4

## Multiplication Facts and Strategies

Textbook section	IXL skills
<b>4.1:</b> Multiply with 2 and 4	<b>F.3</b> Multiply by 2 >> <b>F.5</b> Multiply by 4 >>
<b>4.2:</b> Multiply with 5 and 10	<b>F.6</b> Multiply by 5 >> <b>F.11</b> Multiply by 10 >>  <i>See also:</i> <b>G.1</b> Multiplication tables for 2, 3, 4, 5, and 10 >>
<b>4.3:</b> Multiply with 3 and 6	<b>F.4</b> Multiply by 3 >> <b>F.7</b> Multiply by 6 >>
<b>4.4:</b> Distributive Property	<b>N.7</b> Distributive property: find the missing factor >>
<b>4.5:</b> Multiply with 7	<b>F.8</b> Multiply by 7 >>
<b>4.6:</b> Associative Property of Multiplication	
<b>4.7:</b> Patterns on the Multiplication Table	<b>A.5</b> Even and odd II >>
<b>4.8:</b> Multiply with 8	<b>F.9</b> Multiply by 8 >>
<b>4.9:</b> Multiply with 9	<b>F.10</b> Multiply by 9 >>  <i>See also:</i> <b>G.5</b> Multiplication tables for 6, 7, 8, and 9 >>> <b>G.9</b> Multiplication tables up to 10 >>
<b>4.10:</b> Problem Solving – Multiplication	<b>H.6</b> Multiplication word problems >> <b>H.7</b> Multiplication word problems: find the missing factor >>

# Chapter 5

## Use Multiplication Facts

Textbook section	IXL skills
<b>5.1:</b> Describe Patterns	<b>H.4</b> Multiplication input/output tables >> <b>H.5</b> Multiplication input/output tables: find the rule >>
<b>5.2:</b> Find Unknown Factors	<b>G.4</b> Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor >> <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>5.3:</b> Problem Solving – Use the Distributive Property	
<b>5.4:</b> Multiplication Strategies with Multiples of 10	<b>H.1</b> Multiply by a multiple of ten >>
<b>5.5:</b> Multiply Multiples of 10 by 1-Digit Numbers	<b>H.1</b> Multiply by a multiple of ten >>

# Chapter 6

## Understand Division

Textbook section	IXL skills
<b>6.1:</b> Problem Solving – Model Division	<b>I.1</b> Divide by counting equal groups >>
<b>6.2:</b> Size of Equal Groups	<b>I.1</b> Divide by counting equal groups >> <b>L.6</b> Division word problems >>
<b>6.3:</b> Number of Equal Groups	<b>I.1</b> Divide by counting equal groups >> <b>L.6</b> Division word problems >>
<b>6.4:</b> Model with Bar Models	
<b>6.5:</b> Relate Subtraction and Division	<b>K.1</b> Division facts for 2, 3, 4, 5, and 10 >> <b>K.7</b> Division facts to 10 >>
<b>6.6:</b> Model with Arrays	<b>I.4</b> Write division sentences for arrays >>
<b>6.7:</b> Relate Multiplication and Division	<b>G.12</b> Multiplication facts up to 10: find the missing factor >> <b>I.3</b> Relate multiplication and division for groups >> <b>I.5</b> Relate multiplication and division for arrays >> <b>N.10</b> Relate multiplication and division >>
<b>6.8:</b> Write Related Facts	<b>I.5</b> Relate multiplication and division for arrays >> <b>N.10</b> Relate multiplication and division >>
<b>6.9:</b> Division Rules for 1 and 0	<b>J.1</b> Divide by 1 >>



# Chapter 7

## Division Facts and Strategies

Textbook section	IXL skills
<b>7.1:</b> Divide by 2	<b>J.2</b> Divide by 2 >>
<b>7.2:</b> Divide by 10	<b>J.10</b> Divide by 10 >>
<b>7.3:</b> Divide by 5	<b>J.5</b> Divide by 5 >>
<b>7.4:</b> Divide by 3	<b>J.3</b> Divide by 3 >>
<b>7.5:</b> Divide by 4	<b>J.4</b> Divide by 4 >>
<b>7.6:</b> Divide by 6	<b>J.6</b> Divide by 6 >>
<b>7.7:</b> Divide by 7	<b>J.7</b> Divide by 7 >>
<b>7.8:</b> Divide by 8	<b>J.8</b> Divide by 8 >>
<b>7.9:</b> Divide by 9	<b>J.9</b> Divide by 9 >>
<b>7.10:</b> Problem Solving – Two-Step Problems	<b>M.11</b> Multi-step word problems >>
<b>7.11:</b> Order of Operations	

# Chapter 8

## Understand Fractions

Textbook section	IXL skills
<b>8.1:</b> Equal Parts of a Whole	<b>W.1</b> Identify equal parts >> <b>W.2</b> Identify halves, thirds, and fourths >>
<b>8.2:</b> Equal Shares	
<b>8.3:</b> Unit Fractions of a Whole	<b>W.2</b> Identify halves, thirds, and fourths >> <b>W.5</b> Match unit fractions to models >> <b>W.17</b> Unit fractions: word problems >>
<b>8.4:</b> Fractions of a Whole	<b>W.3</b> Understand fractions: fraction bars >> <b>W.4</b> Understand fractions: area models >> <b>W.5</b> Match unit fractions to models >> <b>W.7</b> Show fractions: fraction bars >> <b>W.8</b> Show fractions: area models >> <b>W.16</b> Fractions of a whole: modeling word problems >> <b>W.18</b> Fractions of a whole: word problems >>
<b>8.5:</b> Fractions on a Number Line	<b>W.11</b> Identify unit fractions on number lines >> <b>W.12</b> Identify fractions on number lines >> <b>W.13</b> Graph unit fractions on number lines >>  <i>See also:</i> <b>W.14</b> Graph fractions on number lines >>
<b>8.6:</b> Relate Fractions and Whole Numbers	<b>X.7</b> Select fractions equivalent to whole numbers using area models >> <b>X.8</b> Graph fractions equivalent to 1 on number lines >> <b>X.9</b> Find fractions equivalent to whole numbers >>
<b>8.7:</b> Fractions of a Group	<b>W.6</b> Match fractions to models >> <b>W.19</b> Fraction review – word problems >>

**8.8:** Find Part of a Group Using Unit Fractions

**Z.1** Fractions of a number - unit fractions >>

**Z.3** Fractions of a number - unit fractions: word problems >>

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**8.9:** Problem Solving – Find the Whole Group Using Unit Fractions

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# Chapter 9

## Compare Fractions

Textbook section	IXL skills
<b>9.1:</b> Problem Solving – Compare Fractions	
<b>9.2:</b> Compare Fractions with the Same Denominator	<b>Y.3</b> Graph and compare fractions with like denominators on number lines >> <b>W.15</b> Graph smaller or larger fractions on a number line >>
<b>9.3:</b> Compare Fractions with the Same Numerator	<b>Y.4</b> Graph and compare fractions with like numerators on number lines >>
<b>9.4:</b> Compare Fractions	<b>Y.5</b> Graph and compare fractions on number lines >>
<b>9.5:</b> Compare and Order Fractions	<b>Y.9</b> Graph and order fractions on number lines >> <b>Y.10</b> Order fractions with like numerators >> <b>Y.11</b> Order fractions with like denominators >>
<b>9.6:</b> Model Equivalent Fractions	<b>X.3</b> Find equivalent fractions using number lines >>  <i>See also:</i> <b>X.1</b> Find equivalent fractions using area models >> <b>X.2</b> Identify equivalent fractions on number lines >>
<b>9.7:</b> Equivalent Fractions	<b>X.1</b> Find equivalent fractions using area models >> <b>X.3</b> Find equivalent fractions using number lines >>  <i>See also:</i> <b>X.4</b> Graph equivalent fractions on number lines >>

# Chapter 10

## Time, Length, Liquid Volume, and Mass

Textbook section	IXL skills
<b>10.1:</b> Time to the Minute	<b>S.1</b> Read clocks and write times >>
<b>10.2:</b> A.M. and P.M.	<b>S.2</b> A.M. and P.M. >>
<b>10.3:</b> Measure Time Intervals	<b>S.4</b> Elapsed time II >>
<b>10.4:</b> Use Time Intervals	<b>S.3</b> Elapsed time I >>
<b>10.5:</b> Problem Solving – Time Intervals	
<b>10.6:</b> Measure Length	<b>U.3</b> Measure using an inch ruler >>
<b>10.7:</b> Estimate and Measure Liquid Volume	
<b>10.8:</b> Estimate and Measure Mass	<b>U.14</b> Which metric unit of weight is appropriate? >>
<b>10.9:</b> Solve Problems About Liquid Volume and Mass	

# Chapter 11

## Perimeter and Area

Textbook section	IXL skills
<b>11.1:</b> Model Perimeter	<b>V.8</b> Perimeter >>
<b>11.2:</b> Find Perimeter	
<b>11.3:</b> Find Unknown Side Lengths	<b>V.9</b> Perimeter: find the missing side length >>
<b>11.4:</b> Understand Area	<b>V.10</b> Area of figures made of unit squares >>
<b>11.5:</b> Measure Area	<b>V.10</b> Area of figures made of unit squares >>
<b>11.6:</b> Use Area Models	<b>V.11</b> Create figures with a given area >>
<b>11.7:</b> Problem Solving – Area of Rectangles	<b>V.12</b> Area of rectangles >> <b>V.13</b> Area of squares and rectangles: word problems >>
<b>11.8:</b> Area of Combined Rectangles	<b>V.14</b> Area of complex figures (with all right angles) >>
<b>11.9:</b> Same Perimeter, Different Areas	<b>V.16</b> Compare area and perimeter of two figures >> <b>V.18</b> Relationship between area and perimeter >>
<b>11.10:</b> Same Area, Different Perimeters	<b>V.16</b> Compare area and perimeter of two figures >> <b>V.18</b> Relationship between area and perimeter >>

# Chapter 12

## Two-Dimensional Shapes

Textbook section	IXL skills
<b>12.1:</b> Describe Plane Shapes	<b>V.21</b> Lines, line segments, and rays >>
<b>12.2:</b> Describe Angles in Plane Shapes	<b>V.20</b> Angles: greater than, less than, or equal to a right angle >>
<b>12.3:</b> Identify Polygons	<b>V.3</b> Count and compare sides and angles >> <b>V.23</b> Is it a polygon? >>  <i>See also:</i> <b>V.2</b> Which 2-dimensional shape is being described? >>
<b>12.4:</b> Describe Sides of Polygons	<b>V.22</b> Parallel, perpendicular, intersecting >>
<b>12.5:</b> Classify Quadrilaterals	<b>V.26</b> Classify quadrilaterals >>
<b>12.6:</b> Draw Quadrilaterals	
<b>12.7:</b> Describe Triangles	<b>V.24</b> Triangles: equilateral, isosceles, and scalene >>  <b>V.25</b> Triangles: acute, right, and obtuse >>
<b>12.8:</b> Problem Solving – Classify Plane Shapes	
<b>12.9:</b> Relate Shapes, Fractions, and Area	