



# IXL Skill Alignment

4th alignment for GO Math! 2011 Common Core Edition

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# Chapter 1

## Place Value, Addition, and Subtraction to One Million

Textbook section	IXL skills
<b>1.1:</b> Model Place Value Relationships	<b>A.2</b> Convert between standard and expanded form >>
<b>1.2:</b> Read and Write Numbers	<b>A.10</b> Write word names for numbers up to one million >>
<b>1.3:</b> Compare and Order Numbers	<b>A.21</b> Compare numbers up to one billion >>
<b>1.4:</b> Round Numbers	<b>A.16</b> Rounding >>
<b>1.5:</b> Rename Numbers	<b>A.4</b> Convert between place values >>
<b>1.6:</b> Add Whole Numbers	<b>B.2</b> Add numbers up to millions >> <b>B.4</b> Add numbers up to millions: word problems >> <b>B.10</b> Estimate sums >> <b>B.11</b> Estimate sums: word problems >> <i>See also:</i> <b>B.6</b> Properties of addition >>
<b>1.7:</b> Subtract Whole Numbers	<b>C.2</b> Subtract numbers up to millions >> <b>C.4</b> Subtract numbers up to millions: word problems >> <b>C.8</b> Estimate differences >> <b>C.9</b> Estimate differences: word problems >>
<b>1.8:</b> Comparison Problems with Addition and Subtraction	<b>J.1</b> Read a table >>

# Chapter 2

## Multiply by 1-Digit Numbers

Textbook section	IXL skills
<b>2.1:</b> Multiplication Comparisons	
<b>2.2:</b> Comparison Problems	
<b>2.3:</b> Multiply Tens, Hundreds, and Thousands	<b>D.9</b> Multiplication patterns over increasing place values >>
<b>2.4:</b> Estimate Products	<b>D.13</b> Estimate products - multiply by 1-digit numbers >>
<b>2.5:</b> Multiply Using the Distributive Property	<b>D.11</b> Distributive property: find the missing factor >> <b>D.12</b> Multiply using the distributive property >>
<b>2.6:</b> Multiply Using Expanded Form	
<b>2.7:</b> Multiply Using Partial Products	
<b>2.8:</b> Multiply Using Mental Math	<b>D.10</b> Properties of multiplication >>
<b>2.9:</b> Multistep Multiplication Problems	<b>D.28</b> Multiply three or more numbers: word problems >>
<b>2.10:</b> Multiply 2-Digit Numbers with Regrouping	<b>D.6</b> Multiply 1-digit numbers by 2-digit numbers >>
<b>2.11:</b> Multiply 3-Digit and 4-Digit Numbers with Regrouping	<b>D.7</b> Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
<b>2.12:</b> Solve Multistep Problems Using Equations	

# Chapter 3

## Multiply 2-Digit Numbers

Textbook section	IXL skills
<b>3.1:</b> Multiply by Tens	<b>D.25</b> <a href="#">Multiply numbers ending in zeroes &gt;&gt;</a>
<b>3.2:</b> Estimate Products	<b>D.14</b> <a href="#">Estimate products - multiply by larger numbers &gt;&gt;</a>
	<b>D.15</b> <a href="#">Estimate products: word problems &gt;&gt;</a>
<b>3.3:</b> Area Models and Partial Products	
<b>3.4:</b> Multiply Using Partial Products	<b>D.16</b> <a href="#">Box multiplication &gt;&gt;</a>
	<b>D.19</b> <a href="#">Multiply a 2-digit number by a 2-digit number &gt;&gt;</a>
<b>3.5:</b> Multiply with Regrouping	<b>D.19</b> <a href="#">Multiply a 2-digit number by a 2-digit number &gt;&gt;</a>
<b>3.6:</b> Choose a Multiplication Method	<b>D.19</b> <a href="#">Multiply a 2-digit number by a 2-digit number &gt;&gt;</a>
<b>3.7:</b> Problem Solving - Multiply 2-Digit Numbers	

# Chapter 4

## Divide by 1-Digit Numbers

Textbook section	IXL skills
<b>4.1:</b> Estimate Quotients Using Multiples	
<b>4.2:</b> Remainders	
<b>4.3:</b> Interpret the Remainder	<b>E.7</b> Divide 2-digit numbers by 1-digit numbers: interpret remainders >>
<b>4.4:</b> Divide Tens, Hundreds, and Thousands	<b>E.13</b> Division patterns over increasing place values >> <b>E.14</b> Divide numbers ending in zeroes by 1-digit numbers >>
<b>4.5:</b> Estimate Quotients Using Compatible Numbers	<b>E.15</b> Divide by 1-digit numbers: estimate quotients >>
<b>4.6:</b> Division and the Distributive Property	
<b>4.7:</b> Divide Using Repeated Subtraction	<b>E.1</b> Division facts to 12 >> <b>E.4</b> Divide 2-digit numbers by 1-digit numbers >>  <i>See also:</i> <b>E.5</b> Divide 2-digit numbers by 1-digit numbers: word problems >>
<b>4.8:</b> Divide Using Partial Quotients	
<b>4.9:</b> Model Division with Regrouping	
<b>4.10:</b> Place the First Digit	<b>E.8</b> Divide larger numbers by 1-digit numbers >>
<b>4.11:</b> Divide by 1-Digit Numbers	<b>E.8</b> Divide larger numbers by 1-digit numbers >> <b>E.9</b> Divide larger numbers by 1-digit numbers: word problems >>
<b>4.12:</b> Multistep Division Problems	

# Chapter 5

## Factors, Multiples, and Patterns

Textbook section	IXL skills
<b>5.1:</b> Model Factors	<b>D.5</b> Identify factors >>
<b>5.2:</b> Factors and Divisibility	<b>D.5</b> Identify factors >> <b>E.16</b> Divisibility rules >> <b>E.17</b> Divisibility rules: word problems >>
<b>5.3:</b> Common Factors	
<b>5.4:</b> Factors and Multiples	<b>D.4</b> Choose the multiples of a given number up to 12 >>
<b>5.5:</b> Prime and Composite Numbers	<b>A.14</b> Prime and composite - up to 20 >>
<b>5.6:</b> Number Patterns	<b>L.8</b> Number patterns: word problems >>

# Chapter 6

## Fraction Equivalence and Comparison

Textbook section	IXL skills
<b>6.1:</b> Equivalent Fractions	<b>P.5</b> Find equivalent fractions using area models >>
	<b>P.7</b> Equivalent fractions >>
<b>6.2:</b> Generate Equivalent Fractions	<b>P.9</b> Patterns of equivalent fractions >>
<b>6.3:</b> Simplest Form	<b>P.10</b> Write fractions in lowest terms >>
<b>6.4:</b> Common Denominators	
<b>6.5:</b> Problem Solving - Find Equivalent Fractions	
<b>6.6:</b> Compare Fractions Using Benchmarks	<b>P.15</b> Benchmark fractions >>
	<b>P.16</b> Compare fractions using benchmarks >>
<b>6.7:</b> Compare Fractions	<b>P.12</b> Graph and compare fractions with like numerators or denominators on number lines >>
	<b>P.14</b> Compare fractions using models >>
	<b>P.17</b> Compare fractions >>
<b>6.8:</b> Compare and Order Fractions	<b>P.19</b> Graph and order fractions on number lines >>
	<b>P.21</b> Order fractions >>
	<i>See also:</i> <b>P.22</b> Find smaller or larger fractions >>

# Chapter 7

## Add and Subtract Fractions

Textbook section	IXL skills
<b>7.1:</b> Add and Subtract Parts of a Whole	
<b>7.2:</b> Write Fractions as Sums	<b>Q.1</b> Decompose fractions into unit fractions >> <b>Q.2</b> Decompose fractions >> <b>Q.3</b> Decompose fractions multiple ways >>
<b>7.3:</b> Add Fractions Using Models	<b>Q.4</b> Add fractions with like denominators using number lines >>
<b>7.4:</b> Subtract Fractions Using Models	<b>Q.6</b> Subtract fractions with like denominators using number lines >>
<b>7.5:</b> Add and Subtract Fractions	<b>Q.8</b> Add and subtract fractions with like denominators using number lines >> <b>Q.9</b> Add and subtract fractions with like denominators >> <b>Q.11</b> Add and subtract fractions with like denominators: word problems >>
<b>7.6:</b> Rename Fractions and Mixed Numbers	<b>P.4</b> Mixed number review >> <b>P.23</b> Convert between improper fractions and mixed numbers >>
<b>7.7:</b> Add and Subtract Mixed Numbers	<b>Q.14</b> Add and subtract mixed numbers with like denominators >>
<b>7.8:</b> Subtraction with Renaming	<b>Q.14</b> Add and subtract mixed numbers with like denominators >>
<b>7.9:</b> Fractions and Properties of Addition	
<b>7.10:</b> Multistep Fraction Problems	



# Chapter 8

## Multiply Fractions by Whole Numbers

Textbook section	IXL skills
<b>8.1:</b> Multiples of Unit Fractions	<b>S.1</b> Multiply unit fractions by whole numbers using number lines >>
	<b>S.2</b> Multiply unit fractions by whole numbers using models >>
	<b>S.3</b> Multiples of fractions >>
	<b>S.5</b> Multiply unit fractions by whole numbers >>
	<b>S.6</b> Multiply unit fractions by whole numbers: word problems >>
<b>8.2:</b> Multiples of Fractions	<b>S.3</b> Multiples of fractions >>
	<b>S.7</b> Multiply fractions by whole numbers using number lines >>
<b>8.3:</b> Multiply a Fraction by a Whole Number Using Models	<b>S.2</b> Multiply unit fractions by whole numbers using models >>
	<b>S.7</b> Multiply fractions by whole numbers using number lines >>
	<b>S.8</b> Multiply fractions by whole numbers using models >>
	<b>S.10</b> Multiply fractions by whole numbers >>
	<b>S.12</b> Multiply fractions by whole numbers: word problems >>
<b>8.4:</b> Multiply a Fraction or Mixed Number by a Whole Number	<b>S.13</b> Multiply fractions and mixed numbers by whole numbers in recipes >>
<b>8.5:</b> Comparison Problems with Fractions	<b>S.6</b> Multiply unit fractions by whole numbers: word problems >>
	<b>S.12</b> Multiply fractions by whole numbers: word problems >>

# Chapter 9

## Relate Fractions and Decimals

Textbook section	IXL skills
<b>9.1:</b> Relate Tenths and Decimals	
<b>9.2:</b> Relate Hundredths and Decimals	<p><b>T.1</b> What decimal number is illustrated? &gt;&gt;</p> <p><b>T.2</b> Model decimals and fractions &gt;&gt;</p> <p><b>T.3</b> Understanding decimals expressed in words &gt;&gt;</p> <p><b>T.4</b> Place values in decimal numbers &gt;&gt;</p> <p><b>T.6</b> Graph decimals on number lines &gt;&gt;</p> <p><b>T.8</b> Graph fractions as decimals on number lines &gt;&gt;</p>
<b>9.3:</b> Equivalent Fractions and Decimals	<p><b>P.8</b> Fractions with denominators of 10, 100, and 1000 &gt;&gt;</p> <p><b>T.5</b> Equivalent decimals &gt;&gt;</p> <p><b>T.8</b> Graph fractions as decimals on number lines &gt;&gt;</p>
<b>9.4:</b> Relate Fractions, Decimals, and Money	<b>M.1</b> Count coins and bills - up to \$5 bill >>
<b>9.5:</b> Problem Solving - Money	<p><b>M.4</b> Add and subtract money amounts &gt;&gt;</p> <p><b>M.5</b> Add, subtract, multiply, and divide money amounts &gt;&gt;</p>
<b>9.6:</b> Add Fractional Parts of 10 and 100	<p><b>R.5</b> Add fractions with denominators of 10 and 100 &gt;&gt;</p> <p><b>R.6</b> Add and subtract fractions with denominators of 10, 100, and 1000 &gt;&gt;</p>
<b>9.7:</b> Compare Decimals	<p><b>T.14</b> Compare decimals on number lines &gt;&gt;</p> <p><b>T.15</b> Compare decimal numbers &gt;&gt;</p> <p><b>T.18</b> Compare decimals and fractions on number lines &gt;&gt;</p> <p><i>See also:</i></p> <p><b>T.19</b> Compare decimals and fractions &gt;&gt;</p>

# Chapter 10

## Two-Dimensional Figures

Textbook section	IXL skills
<b>10.1:</b> Lines, Rays, and Angles	<b>W.4</b> Lines, line segments, and rays >> <b>Z.1</b> Acute, right, obtuse, and straight angles >>
<b>10.2:</b> Classify Triangles	<b>X.1</b> Acute, obtuse, and right triangles >>
<b>10.3:</b> Parallel Lines and Perpendicular Lines	<b>W.5</b> Parallel, perpendicular, and intersecting lines >>
<b>10.4:</b> Classify Quadrilaterals	<b>X.9</b> Classify quadrilaterals >>
<b>10.5:</b> Line Symmetry	<b>Y.1</b> Identify lines of symmetry >>
<b>10.6:</b> Find and Draw Lines of Symmetry	
<b>10.7:</b> Problem Solving - Shape Patterns	<b>L.9</b> Number patterns: mixed review >>

# Chapter 11

## Angles

Textbook section	IXL skills
<b>11.1:</b> Angles and Fractional Parts of a Circle	
<b>11.2:</b> Degrees	<b>Z.2</b> Angles of 90, 180, 270, and 360 degrees >>
<b>11.3:</b> Measure and Draw Angles	<b>Z.3</b> Measure angles with a protractor >>
<b>11.4:</b> Join and Separate Angles	<b>Z.5</b> Adjacent angles >>
<b>11.5:</b> Problem Solving - Unknown Angle Measures	<b>Z.5</b> Adjacent angles >>

# Chapter 12

## Relative Sizes of Measurement Units

Textbook section	IXL skills
<b>12.1:</b> Measurement Benchmarks	<b>N.2</b> Which customary unit is appropriate? >> <b>N.11</b> Which metric unit is appropriate? >>
<b>12.2:</b> Customary Units of Length	<b>N.3</b> Compare and convert customary units of length >>
<b>12.3:</b> Customary Units of Weight	<b>N.4</b> Compare and convert customary units of weight >>
<b>12.4:</b> Customary Units of Liquid Volume	<b>N.5</b> Compare and convert customary units of volume >>  <i>See also:</i> <b>N.7</b> Conversion tables - customary units >>
<b>12.5:</b> Line Plots	<b>J.6</b> Interpret line plots >> <b>J.7</b> Create line plots >>
<b>12.6:</b> Metric Units of Length	<b>N.12</b> Compare and convert metric units of length >>
<b>12.7:</b> Metric Units of Mass and Liquid Volume	<b>N.13</b> Compare and convert metric units of weight >> <b>N.14</b> Compare and convert metric units of volume >>  <i>See also:</i> <b>N.16</b> Conversion tables - metric units >>
<b>12.8:</b> Units of Time	<b>O.1</b> Convert time units >>
<b>12.9:</b> Problem Solving - Elapsed Time	<b>O.5</b> Elapsed time >> <b>O.6</b> Elapsed time: word problems >>
<b>12.10:</b> Mixed Measures	<b>N.10</b> Add and subtract mixed customary units >>
<b>12.11:</b> Patterns in Measurement Units	

# Chapter 13

## Algebra: Perimeter and Area

Textbook section	IXL skills
<b>13.1:</b> Perimeter	<b>BB.1</b> Perimeter >>
<b>13.2:</b> Area	<b>BB.6</b> Find the area or missing side length of a rectangle >>
<b>13.3:</b> Area of Combined Rectangles	<b>BB.7</b> Area of complex figures (with all right angles) >>
<b>13.4:</b> Find Unknown Measures	<b>BB.1</b> Perimeter >>  <i>See also:</i> <b>BB.10</b> Relationship between area and perimeter >>
<b>13.5:</b> Problem Solving - Find the Area	<b>BB.8</b> Area between two rectangles >>