



# IXL Skill Alignment

6th Grade alignment for GO Math! 2011 Common Core Edition

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# Chapter 1

## Whole Numbers and Decimals

Textbook section	IXL skills
<b>1.1:</b> Divide Multi-Digit Numbers	<b>C.5</b> Divide whole numbers - 2-digit divisors >>  <i>See also:</i> <b>C.4</b> Estimate quotients >>
<b>1.2:</b> Prime Factorization	<b>C.1</b> Divisibility rules >> <b>E.4</b> Identify factors >> <b>E.5</b> Prime factorization >>
<b>1.3:</b> Least Common Multiple	<b>E.8</b> Least common multiple >>
<b>1.4:</b> Greatest Common Factor	<b>E.7</b> Greatest common factor >>
<b>1.5:</b> Problem Solving - Apply the Greatest Common Factor	
<b>1.6:</b> Add and Subtract Decimals	<b>G.1</b> Add and subtract decimal numbers >> <b>G.2</b> Add and subtract decimals: word problems >> <b>G.3</b> Estimate sums and differences of decimals >>
<b>1.7:</b> Multiply Decimals	<b>H.1</b> Estimate products of decimal numbers >> <b>H.2</b> Multiply decimals >>
<b>1.8:</b> Divide Decimals by Whole Numbers	<b>H.4</b> Divide decimals by whole numbers >>
<b>1.9:</b> Divide with Decimals	<b>H.7</b> Division with decimal quotients >>

# Chapter 2

## Fractions

Textbook section	IXL skills
<b>2.1:</b> Fractions and Decimals	<b>I.10</b> Convert between decimals and fractions or mixed numbers >>
<b>2.2:</b> Compare and Order Fractions and Decimals	<b>I.7</b> Compare fractions with like and unlike denominators >> <b>I.11</b> Put a mix of decimals, fractions, and mixed numbers in order >>
<b>2.3:</b> Multiply Fractions	<b>K.1</b> Fractions of whole numbers I >> <b>K.2</b> Fractions of whole numbers II >> <b>K.6</b> Multiply two fractions >> <b>K.10</b> Multiply mixed numbers and whole numbers >> <b>K.11</b> Multiply mixed numbers >>
<b>2.4:</b> Simplify Factors	
<b>2.5:</b> Model Fraction Division	<b>L.1</b> Divide whole numbers by unit fractions using models >>
<b>2.6:</b> Estimate Quotients	
<b>2.7:</b> Divide Fractions	<b>L.3</b> Divide whole numbers and unit fractions >> <b>L.5</b> Divide fractions >>
<b>2.8:</b> Model Mixed Number Division	
<b>2.9:</b> Divide Mixed Numbers	<b>L.7</b> Divide fractions and mixed numbers >> <b>L.8</b> Divide fractions and mixed numbers: word problems >>
<b>2.10:</b> Problem Solving: Fraction Operations	

# Chapter 3

## Rational Numbers

Textbook section	IXL skills
<b>3.1:</b> Understand Positive and Negative Numbers	<b>M.1</b> Understanding integers >> <b>M.2</b> Integers on number lines >>
<b>3.2:</b> Compare and Order Integers	<b>M.5</b> Compare integers >>
<b>3.3:</b> Rational Numbers and the Number Line	<b>M.4</b> Graph integers on horizontal and vertical number lines >>
<b>3.4:</b> Compare and Order Rational Numbers	<b>P.1</b> Compare rational numbers >> <b>P.2</b> Put rational numbers in order >>
<b>3.5:</b> Absolute Value	<b>M.3</b> Absolute value and opposite integers >> <b>P.3</b> Absolute value of rational numbers >>
<b>3.6:</b> Compare Absolute Values	
<b>3.7:</b> Rational Numbers and the Coordinate Plane	<b>X.2</b> Graph points on a coordinate plane >>
<b>3.8:</b> Ordered Pair Relationships	<b>X.1</b> Objects on a coordinate plane >>
<b>3.9:</b> Distance on the Coordinate Plane	<b>X.5</b> Distance between two points >>
<b>3.10:</b> Problem Solving: The Coordinate Plane	<b>X.4</b> Coordinate planes as maps >> <b>X.6</b> Follow directions on a coordinate plane >>

# Chapter 4

## Ratios and Rates

Textbook section	IXL skills
<b>4.1:</b> Model Ratios	<b>R.1</b> Write a ratio >> <b>R.2</b> Write a ratio: word problems >> <b>R.5</b> Ratio tables >>
<b>4.2:</b> Ratios and Rates	<b>R.1</b> Write a ratio >> <b>R.2</b> Write a ratio: word problems >> <b>R.5</b> Ratio tables >>
<b>4.3:</b> Equivalent Ratios and Multiplication Tables	<b>R.3</b> Identify equivalent ratios >> <b>R.5</b> Ratio tables >> <b>R.6</b> Equivalent ratios: word problems >>
<b>4.4:</b> Problem Solving: Use Tables to Compare Ratios	<b>R.6</b> Equivalent ratios: word problems >>
<b>4.5:</b> Use Equivalent Ratios	
<b>4.6:</b> Find Unit Rates	<b>R.7</b> Unit rates and equivalent rates >>  <i>See also:</i> <b>R.8</b> Compare ratios: word problems >>
<b>4.7:</b> Use Unit Rates	<b>R.9</b> Unit rates: word problems >>
<b>4.8:</b> Equivalent Ratios and Graphs	

# Chapter 5

## Percents

Textbook section	IXL skills
5.1: Model Percents	
5.2: Write Percents as Fractions and Decimals	<b>S.1</b> Convert between percents, fractions, and decimals >>
5.3: Write Fractions and Decimals as Percents	<b>S.1</b> Convert between percents, fractions, and decimals >>
5.4: Percent of a Quantity	<b>S.4</b> Percents of numbers and money amounts >> <b>S.5</b> Percents of numbers: word problems >>
5.5: Problem Solving: Percents	
5.6: Find the Whole from a Percent	

# Chapter 6

## Units of Measure

Textbook section	IXL skills
<b>6.1:</b> Convert Units of Length	
<b>6.2:</b> Convert Units of Capacity	
<b>6.3:</b> Convert Units of Weight and Mass	
<b>6.4:</b> Transform Units	<b>R.9</b> <a href="#">Unit rates: word problems &gt;&gt;</a>
<b>6.5:</b> Problem Solving: Distance, Rate, and Time Formulas	

# Chapter 7

## Exponents

Textbook section	IXL skills
<b>7.1:</b> Exponents	<b>D.1</b> Write multiplication expressions using exponents >>
	<b>D.2</b> Evaluate exponents >>
<b>7.2:</b> Evaluate Expressions Involving Exponents	
<b>7.3:</b> Write Algebraic Expressions	<b>Y.1</b> Write variable expressions >>
	<b>Y.2</b> Write variable expressions: word problems >>
<b>7.4:</b> Identify Parts of Expressions	
<b>7.5:</b> Evaluate Algebraic Expressions and Formulas	<b>Y.3</b> Evaluate variable expressions with whole numbers >>
<b>7.6:</b> Use Algebraic Expressions	<b>Y.2</b> Write variable expressions: word problems >>
	<b>Y.3</b> Evaluate variable expressions with whole numbers >>
<b>7.7:</b> Problem Solving - Combine Like Terms	<b>Y.14</b> Add and subtract like terms >>
<b>7.8:</b> Generate Equivalent Expressions	<b>Y.13</b> Write equivalent expressions using properties >>
<b>7.9:</b> Identify Equivalent Expressions	<b>Y.13</b> Write equivalent expressions using properties >>



# Chapter 8

## Algebra: Equations and Inequalities

Textbook section	IXL skills
<b>8.1:</b> Solutions of Equations	<b>Z.1</b> Does $x$ satisfy an equation? >>
<b>8.2:</b> Write Equations	<b>Y.2</b> Write variable expressions: word problems >> <b>Z.3</b> Write an equation from words >>
<b>8.3:</b> Model and Solve Addition Equations	<b>Z.4</b> Model and solve equations using algebra tiles >>
<b>8.4:</b> Solve Addition and Subtraction Equations	
<b>8.5:</b> Model and Solve Multiplication Equations	
<b>8.6:</b> Solve Multiplication and Division Equations	<b>Z.6</b> Solve one-step equations with whole numbers >> <b>Z.7</b> Solve one-step equations with decimals, fractions, and mixed numbers >>
<b>8.7:</b> Problem Solving - Equations with Fractions	
<b>8.8:</b> Solutions of Inequalities	<b>AA.1</b> Solutions to inequalities >>
<b>8.9:</b> Write Inequalities	
<b>8.10:</b> Graph Inequalities	<b>AA.3</b> Write inequalities from number lines >>

# Chapter 9

## Algebra: Relationships Between Variables

Textbook section	IXL skills
<b>9.1:</b> Independent and Dependent Variables	<b>BB.2</b> Identify independent and dependent variables >>
<b>9.2:</b> Equations and Tables	<b>BB.5</b> Complete a table for a two-variable relationship >>
	<b>BB.6</b> Write a two-variable equation >>
<b>9.3:</b> Problem Solving - Analyze Relationships	
<b>9.4:</b> Graph Relationships	<b>BB.7</b> Identify the graph of an equation >>
<b>9.5:</b> Equations and Graphs	<b>BB.8</b> Graph a two-variable equation >>
	<b>BB.10</b> Write an equation from a graph using a table >>

# Chapter 10

## Area

Textbook section	IXL skills
<b>10.1:</b> Area of Parallelograms	
<b>10.2:</b> Explore Area of Triangles	
<b>10.3:</b> Area of Triangles	
<b>10.4:</b> Explore Area of Trapezoids	
<b>10.5:</b> Area of Trapezoids	<b>FF.5</b> <a href="#">Area of quadrilaterals &gt;&gt;</a>
<b>10.6:</b> Area of Regular Polygons	
<b>10.7:</b> Composite Figures	<b>FF.6</b> <a href="#">Area of compound figures &gt;&gt;</a> <i>See also:</i> <b>FF.7</b> <a href="#">Area between two rectangles &gt;&gt;</a>
<b>10.8:</b> Problem Solving - Changing Dimensions	
<b>10.9:</b> Figures on the Coordinate Plane	<b>X.2</b> <a href="#">Graph points on a coordinate plane &gt;&gt;</a> <b>X.5</b> <a href="#">Distance between two points &gt;&gt;</a>

# Chapter 11

## Surface Area and Volume

Textbook section	IXL skills
<b>11.1:</b> Three-Dimensional Figures and Nets	<b>EE.3</b> Nets of three-dimensional figures >>  <i>See also:</i> <b>EE.2</b> Which figure is being described? >>
<b>11.2:</b> Explore Surface Area Using Nets	<b>FF.15</b> Surface area of cubes and rectangular prisms >>
<b>11.3:</b> Surface Area of Prisms	<b>FF.15</b> Surface area of cubes and rectangular prisms >>
<b>11.4:</b> Surface Area of Pyramids	
<b>11.5:</b> Fractions and Volume	<b>FF.14</b> Volume of cubes and rectangular prisms >>
<b>11.6:</b> Volume of Rectangular Prisms	<b>FF.14</b> Volume of cubes and rectangular prisms >>
<b>11.7:</b> Problem Solving - Geometric Measurements	

# Chapter 12

## Data Displays and Measures of Center

Textbook section	IXL skills
<b>12.1:</b> Recognize Statistical Questions	
<b>12.2:</b> Describe Data Collection	
<b>12.3:</b> Dot Plots and Frequency Tables	<b>GG.3</b> Interpret line plots >> <b>GG.4</b> Create line plots >> <b>GG.6</b> Create frequency tables >>
<b>12.4:</b> Histograms	<b>GG.11</b> Interpret histograms >> <b>GG.12</b> Create histograms >>
<b>12.5:</b> Mean as Fair Share and Balance Point	
<b>12.6:</b> Measures of Center	<b>HH.1</b> Calculate mean, median, mode, and range >>
<b>12.7:</b> Effects of Outliers	
<b>12.8:</b> Problem Solving - Data Displays	<b>GG.3</b> Interpret line plots >> <b>GG.4</b> Create line plots >> <b>GG.6</b> Create frequency tables >> <b>GG.12</b> Create histograms >>

# Chapter 13

## Variability and Data Distributions

Textbook section	IXL skills
<b>13.1:</b> Patterns in Data	
<b>13.2:</b> Box Plots	<b>GG.19</b> Interpret box-and-whisker plots >>
<b>13.3:</b> Mean Absolute Deviation	
<b>13.4:</b> Measures of Variability	
<b>13.5:</b> Choose Appropriate Measures of Center and Variability	<b>HH.1</b> Calculate mean, median, mode, and range >>
<b>13.6:</b> Apply Measures of Center and Variability	
<b>13.7:</b> Describe Distributions	
<b>13.8:</b> Problem Solving - Misleading Statistics	