



# IXL Skill Alignment

5th alignment for GO Math! 2011 Common Core Edition

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# Chapter 1

## Place Value, Multiplication, and Expressions

Textbook section	IXL skills
<b>1.1:</b> Place Value and Patterns	
<b>1.2:</b> Place Value of Whole Numbers	<b>A.1</b> Convert between standard and expanded form >>
<b>1.3:</b> Properties	<b>B.6</b> Properties of addition >> <b>C.6</b> Properties of multiplication >>
<b>1.4:</b> Powers of 10 and Exponents	<b>C.3</b> Multiplication patterns over increasing place values >>  <i>See also:</i> <b>E.1</b> Understanding exponents >>
<b>1.5:</b> Multiplication patterns	<b>C.3</b> Multiplication patterns over increasing place values >> <b>C.4</b> Multiply numbers ending in zeroes >>
<b>1.6:</b> Multiply by 1-Digit Numbers	<b>C.1</b> Multiply by 1-digit numbers >> <b>C.2</b> Multiply by 1-digit numbers: word problems >>
<b>1.7:</b> Multiply by 2-Digit Numbers	<b>C.8</b> Estimate products >> <b>C.12</b> Multiply by 2-digit numbers: complete the missing steps >> <b>C.13</b> Multiply 2-digit numbers by 2-digit numbers >> <b>C.14</b> Multiply 2-digit numbers by 3-digit numbers >>
<b>1.8:</b> Relate Multiplication to Division	
<b>1.9:</b> Problem Solving - Multiplication and Division	<b>P.1</b> Multi-step word problems >>
<b>1.10:</b> Numerical Expressions	
<b>1.11:</b> Evaluate Numerical Expressions	

**1.12:** Grouping Symbols

**0.4** Evaluate numerical expressions >>

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# Chapter 2

## Divide Whole Numbers

Textbook section	IXL skills
<b>2.1:</b> Place the First Digit	<b>D.3</b> Divide multi-digit numbers by 1-digit numbers >>
<b>2.2:</b> Divide by 1-Digit Divisors	<b>D.3</b> Divide multi-digit numbers by 1-digit numbers >> <b>D.4</b> Divide multi-digit numbers by 1-digit numbers: word problems >>
<b>2.3:</b> Division with 2-Digit Divisors	<b>D.11</b> Divide 2-digit and 3-digit numbers by 2-digit numbers >> <b>D.12</b> Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >>
<b>2.4:</b> Partial Quotients	<b>D.13</b> Divide larger numbers by 2-digit numbers >> <b>D.14</b> Divide larger numbers by 2-digit numbers: word problems >>
<b>2.5:</b> Estimate with 2-Digit Divisors	
<b>2.6:</b> Divide by 2-Digit Divisors	<b>D.11</b> Divide 2-digit and 3-digit numbers by 2-digit numbers >> <b>D.12</b> Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >> <b>D.13</b> Divide larger numbers by 2-digit numbers >> <b>D.14</b> Divide larger numbers by 2-digit numbers: word problems >>
<b>2.7:</b> Interpret the Remainder	<b>D.5</b> Divide by 1-digit numbers: interpret remainders >> <b>D.12</b> Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >>
<b>2.8:</b> Adjust Quotients	
<b>2.9:</b> Problem Solving: Division	<b>P.1</b> Multi-step word problems >>

# Chapter 3

## Add and Subtract Decimals

Textbook section	IXL skills
<b>3.1:</b> Thousandths	
<b>3.2:</b> Place Value of Decimals	<b>G.3</b> Understanding decimals expressed in words >> <b>G.4</b> Place values in decimal numbers >> <b>G.5</b> Convert decimals between standard and expanded form >> <b>G.16</b> Convert decimals between standard and expanded form using fractions >>
<b>3.3:</b> Compare and Order Decimals	<b>G.10</b> Compare decimal numbers >> <b>G.11</b> Put decimal numbers in order >>
<b>3.4:</b> Round Decimals	<b>G.7</b> Round decimals >>
<b>3.5:</b> Decimal Addition	<b>H.1</b> Add decimal numbers >>
<b>3.6:</b> Decimal Subtraction	<b>H.2</b> Subtract decimal numbers >>
<b>3.7:</b> Estimate Decimal Sums and Differences	<b>H.8</b> Estimate sums and differences of decimals >>
<b>3.8:</b> Add Decimals	<b>H.1</b> Add decimal numbers >>
<b>3.9:</b> Subtract Decimals	<b>H.2</b> Subtract decimal numbers >> <b>H.4</b> Add and subtract decimals: word problems >>
<b>3.10:</b> Patterns with Decimals	<b>G.19</b> Number sequences involving decimals >>
<b>3.11:</b> Problem Solving: Add and Subtract Money	<b>S.1</b> Add and subtract money amounts >> <b>S.2</b> Add and subtract money: word problems >>
<b>3.12:</b> Choose a Method	<b>H.3</b> Add and subtract decimal numbers >> <b>S.1</b> Add and subtract money amounts >> <b>S.2</b> Add and subtract money: word problems >>

# Chapter 4

## Multiply Decimals

Textbook section	IXL skills
<b>4.1:</b> Multiplication Patterns with Decimals	<b>I.2</b> Multiply a decimal by a power of ten >>
<b>4.2:</b> Multiply Decimals and Whole Numbers	<b>I.3</b> Multiply a decimal by a one-digit whole number >>
<b>4.3:</b> Multiplication with Decimals and Whole Numbers	<b>I.3</b> Multiply a decimal by a one-digit whole number >>
<b>4.4:</b> Multiply Using Expanded Form	
<b>4.5:</b> Problem Solving: Multiply Money	<b>S.3</b> Multiply money amounts: word problems >>
<b>4.6:</b> Decimal Multiplication	<b>I.7</b> Multiply two decimals using grids >>
<b>4.7:</b> Multiply Decimals	<b>I.8</b> Multiply two decimals >>
<b>4.8:</b> Zeros in the Product	<b>I.8</b> Multiply two decimals >>

# Chapter 5

## Divide Decimals

Textbook section	IXL skills
<b>5.1:</b> Division Patterns with Decimals	<b>J.2</b> Decimal division patterns over increasing place values >>
<b>5.2:</b> Divide Decimals by Whole Numbers	
<b>5.3:</b> Estimate Quotients	
<b>5.4:</b> Division of Decimals by Whole Numbers	
<b>5.5:</b> Decimal Division	
<b>5.6:</b> Divide Decimals	
<b>5.7:</b> Write Zeros in the Dividend	<b>J.3</b> Division with decimal quotients >>
<b>5.8:</b> Problem Solving: Decimal Operations	<b>I.5</b> Multiply decimals and whole numbers: word problems >>
	<b>O.6</b> Add, subtract, multiply, and divide decimals: word problems >>
	<b>P.1</b> Multi-step word problems >>

# Chapter 6

## Add and Subtract Fractions with Unlike Denominators

Textbook section	IXL skills
<b>6.1:</b> Addition with Unlike Denominators	<b>L.6</b> Add fractions with unlike denominators using models >>
	<b>L.8</b> Add fractions with unlike denominators >>
<b>6.2:</b> Subtraction with Unlike Denominators	<b>L.9</b> Subtract fractions with unlike denominators using models >>
	<b>L.10</b> Subtract fractions with unlike denominators >>
	<b>L.11</b> Add and subtract fractions with unlike denominators: word problems >>
<b>6.3:</b> Estimate Fraction Sums and Differences	<b>L.17</b> Estimate sums and differences of mixed numbers >>
<b>6.4:</b> Common Denominators and Equivalent Fractions	<b>K.4</b> Equivalent fractions >>
	<b>K.7</b> Least common denominator >>
<b>6.5:</b> Add and Subtract Fractions	<b>L.8</b> Add fractions with unlike denominators >>
	<b>L.10</b> Subtract fractions with unlike denominators >>
	<b>L.11</b> Add and subtract fractions with unlike denominators: word problems >>
<b>6.6:</b> Add and Subtract Mixed Numbers	<b>L.18</b> Add mixed numbers with unlike denominators >>
	<b>L.19</b> Subtract mixed numbers with unlike denominators >>
	<b>L.20</b> Add and subtract mixed numbers: word problems >>
<b>6.7:</b> Subtraction with Renaming	<b>L.19</b> Subtract mixed numbers with unlike denominators >>
<b>6.8:</b> Patterns with Fractions	<b>K.12</b> Arithmetic sequences with fractions >>
<b>6.9:</b> Problem Solving: Practice Addition and Subtraction	<b>L.20</b> Add and subtract mixed numbers: word problems >>



**6.10:** Use Properties of Addition**L.12** Add 3 or more fractions with unlike denominators >>**L.13** Add 3 or more fractions: word problems >>

# Chapter 7

## Multiply Fractions

Textbook section	IXL skills
<b>7.1:</b> Find Part of a Group	<b>M.8</b> Multiply fractions by whole numbers I >>
<b>7.2:</b> Multiply Fractions and Whole Numbers	<b>M.1</b> Multiply unit fractions by whole numbers using number lines >> <b>M.2</b> Multiply unit fractions by whole numbers using models >> <b>M.5</b> Multiply fractions by whole numbers using number lines >> <b>M.6</b> Multiply fractions by whole numbers using models >> <b>M.8</b> Multiply fractions by whole numbers I >> <b>M.9</b> Multiply fractions by whole numbers II >>
<b>7.3:</b> Fraction and Whole Number Multiplication	<b>M.8</b> Multiply fractions by whole numbers I >> <b>M.9</b> Multiply fractions by whole numbers II >>
<b>7.4:</b> Multiply Fractions	<b>M.12</b> Multiply two unit fractions using models >> <b>M.14</b> Multiply two fractions using models >>
<b>7.5:</b> Compare Fraction Factors and Products	<b>M.4</b> Multiply unit fractions and whole numbers: sorting >> <b>M.7</b> Multiply fractions and whole numbers: sorting >> <b>M.17</b> Scaling whole numbers by fractions >> <b>M.18</b> Scaling fractions by fractions >>
<b>7.6:</b> Fraction Multiplication	<b>M.14</b> Multiply two fractions using models >> <b>M.15</b> Multiply two fractions >> <b>M.16</b> Multiply two fractions: word problems >>
<b>7.7:</b> Area and Mixed Numbers	
<b>7.8:</b> Compare Mixed Number Factors and Products	<b>M.19</b> Scaling mixed numbers by fractions >>

**7.9:** Multiply Mixed Numbers**M.23** Multiply a mixed number by a whole number >>**M.24** Multiply a mixed number by a fraction >>**M.25** Multiply two mixed numbers >>**7.10:** Problem Solving: Find Unknown Lengths

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# Chapter 8

## Divide Fractions

Textbook section	IXL skills
<b>8.1:</b> Divide Fractions and Whole Numbers	<b>N.1</b> Divide unit fractions by whole numbers >> <b>N.2</b> Divide whole numbers by unit fractions using models >> <b>N.3</b> Divide whole numbers by unit fractions >> <b>N.4</b> Divide whole numbers and unit fractions >> <b>N.5</b> Divide fractions by whole numbers >> <b>N.8</b> Divide whole numbers by fractions >>
<b>8.2:</b> Problem Solving: Use Multiplication	<b>N.2</b> Divide whole numbers by unit fractions using models >>
<b>8.3:</b> Connect Fractions to Division	
<b>8.4:</b> Fraction and Whole-Number Division	<b>N.5</b> Divide fractions by whole numbers >> <b>N.8</b> Divide whole numbers by fractions >>
<b>8.5:</b> Interpret Division with Fractions	<b>N.7</b> Divide unit fractions by whole numbers: word problems >>

# Chapter 9

## Algebra: Patterns and Graphing

Textbook section	IXL skills
<b>9.1:</b> Line Plots	<b>W.10</b> Interpret line plots >> <b>W.11</b> Create line plots >>
<b>9.2:</b> Ordered Pairs	<b>U.1</b> Objects on a coordinate plane >> <b>U.2</b> Graph points on a coordinate plane >> <b>U.3</b> Coordinate planes as maps >>
<b>9.3:</b> Graph Data	<b>W.3</b> Create line graphs >>
<b>9.4:</b> Line Graphs	<b>W.2</b> Interpret line graphs >> <b>W.3</b> Create line graphs >>
<b>9.5:</b> Numerical Patterns	<b>C.22</b> Multiplication input/output tables >> <b>T.2</b> Complete a geometric number sequence >> <b>T.4</b> Number sequences: word problems >>
<b>9.6:</b> Problem Solving: Find a Rule	<b>C.23</b> Multiplication input/output tables: find the rule >>
<b>9.7:</b> Graph and Analyze Relationships	<b>V.10</b> Graph a two-variable relationship >>

# Chapter 10

## Convert Units of Measure

Textbook section	IXL skills
<b>10.1:</b> Customary Length	<b>Z.2</b> Compare and convert customary units of length >>
<b>10.2:</b> Customary Capacity	<b>Z.4</b> Compare and convert customary units of volume >>
<b>10.3:</b> Weight	<b>Z.3</b> Compare and convert customary units of weight >>
<b>10.4:</b> Multistep Measurement Problems	
<b>10.5:</b> Metric Measures	<b>Z.8</b> Compare and convert metric units of length >>
	<b>Z.9</b> Compare and convert metric units of weight >>
	<b>Z.10</b> Compare and convert metric units of volume >>
	<b>Z.11</b> Compare and convert metric units >>
	<i>See also:</i> <b>Z.12</b> Conversion tables - metric units >>
<b>10.6:</b> Problem Solving: Customary and Metric Conversions	<b>Z.5</b> Compare and convert customary units >>
	<b>Z.11</b> Compare and convert metric units >>
	<i>See also:</i> <b>Z.6</b> Conversion tables - customary units >>
	<b>Z.12</b> Conversion tables - metric units >>
	<b>Z.13</b> Compare customary units by multiplying >>
<b>10.7:</b> Elapsed Time	<b>Y.1</b> Convert time units >>
	<b>Y.2</b> Add and subtract mixed time units >>
	<b>Y.4</b> Elapsed time >>
	<b>Y.5</b> Find start and end times: word problems >>

# Chapter 11

## Geometry and Volume

Textbook section	IXL skills
<b>11.1:</b> Polygons	<b>AA.1</b> Is it a polygon? >> <b>AA.2</b> Number of sides in polygons >> <b>AA.3</b> Regular and irregular polygons >>
<b>11.2:</b> Triangles	<b>BB.3</b> Classify triangles >>
<b>11.3:</b> Quadrilaterals	<b>BB.9</b> Classify quadrilaterals >>
<b>11.4:</b> Problem Solving: Properties of Two-Dimensional Figures	
<b>11.5:</b> Three-Dimensional Figures	<b>DD.1</b> Identify three-dimensional figures >>
<b>11.6:</b> Unit Cubes and Solid Figures	<b>EE.11</b> Volume of rectangular prisms made of unit cubes >>
<b>11.7:</b> Understand Volume	<b>EE.11</b> Volume of rectangular prisms made of unit cubes >> <b>EE.12</b> Volume of irregular figures made of unit cubes >>
<b>11.8:</b> Estimate Volume	
<b>11.9:</b> Volume of Rectangular Prisms	<b>EE.13</b> Volume of cubes and rectangular prisms >>
<b>11.10:</b> Apply Volume Formulas	<b>EE.13</b> Volume of cubes and rectangular prisms >>
<b>11.11:</b> Problem Solving: Compare Volumes	
<b>11.12:</b> Find Volume of Composed Figures	