



# IXL Skill Alignment

5th grade 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	1. Convert between standard and expanded form HU7
<b>1.3:</b> Properties	1. Properties of addition LFE 2. Properties of multiplication LUE
<b>1.4:</b> Powers of 10 and Exponents	1. Multiplication patterns over increasing place values BCK  <i>Also consider</i> • Understanding powers of ten 8HS
<b>1.5:</b> Multiplication patterns	1. Multiplication patterns over increasing place values BCK 2. Multiply numbers ending in zeroes 3V9
<b>1.6:</b> Multiply by 1-Digit Numbers	1. Multiply by 1-digit numbers 7H4 2. Multiply by 1-digit numbers: word problems 94W
<b>1.7:</b> Multiply by 2-Digit Numbers	1. Estimate products TKD 2. Multiply by 2-digit numbers: complete the missing steps 9LX 3. Multiply 2-digit numbers by 2-digit numbers LLJ 4. Multiply 2-digit numbers by 3-digit numbers JHB
<b>1.8:</b> Relate Multiplication to Division	
<b>1.9:</b> Problem Solving - Multiplication and Division	1. Multi-step word problems Z76
<b>1.10:</b> Numerical Expressions	
<b>1.11:</b> Evaluate Numerical Expressions	
<b>1.12:</b> Grouping Symbols	1. Evaluate numerical expressions Z5N

# Chapter 2

## Divide Whole Numbers

Textbook section	IXL skills
<b>2.1:</b> Place the First Digit	1. Divide multi-digit numbers by 1-digit numbers XHZ
<b>2.2:</b> Divide by 1-Digit Divisors	1. Divide multi-digit numbers by 1-digit numbers XHZ 2. Divide multi-digit numbers by 1-digit numbers: word problems 5DE
<b>2.3:</b> Division with 2-Digit Divisors	1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA 2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW
<b>2.4:</b> Partial Quotients	1. Divide 4-digit numbers by 2-digit numbers 35K 2. Divide 4-digit numbers by 2-digit numbers: word problems J8L
<b>2.5:</b> Estimate with 2-Digit Divisors	
<b>2.6:</b> Divide by 2-Digit Divisors	1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA 2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW 3. Divide 4-digit numbers by 2-digit numbers 35K 4. Divide 4-digit numbers by 2-digit numbers: word problems J8L
<b>2.7:</b> Interpret the Remainder	1. Divide by 1-digit numbers: interpret remainders 72W 2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW
<b>2.8:</b> Adjust Quotients	
<b>2.9:</b> Problem Solving: Division	1. Multi-step word problems Z76

# Chapter 3

## Add and Subtract Decimals

Textbook section	IXL skills
<b>3.1:</b> Thousandths	
<b>3.2:</b> Place Value of Decimals	<ol style="list-style-type: none"> <li>1. Understanding decimals expressed in words F9G</li> <li>2. Place values in decimal numbers X8U</li> <li>3. Convert decimals between standard and expanded form WTU</li> <li>4. Convert decimals between standard and expanded form using fractions BLQ</li> </ol>
<b>3.3:</b> Compare and Order Decimals	<ol style="list-style-type: none"> <li>1. Compare decimal numbers NSG</li> <li>2. Put decimal numbers in order YUX</li> </ol>
<b>3.4:</b> Round Decimals	<ol style="list-style-type: none"> <li>1. Round decimals MPB</li> </ol>
<b>3.5:</b> Decimal Addition	<ol style="list-style-type: none"> <li>1. Add decimal numbers BDX</li> </ol>
<b>3.6:</b> Decimal Subtraction	<ol style="list-style-type: none"> <li>1. Subtract decimal numbers SC8</li> </ol>
<b>3.7:</b> Estimate Decimal Sums and Differences	<ol style="list-style-type: none"> <li>1. Estimate sums and differences of decimals using rounding YGG</li> </ol>
<b>3.8:</b> Add Decimals	<ol style="list-style-type: none"> <li>1. Add decimal numbers BDX</li> </ol>
<b>3.9:</b> Subtract Decimals	<ol style="list-style-type: none"> <li>1. Subtract decimal numbers SC8</li> <li>2. Add and subtract decimals: word problems 35U</li> </ol>
<b>3.10:</b> Patterns with Decimals	<ol style="list-style-type: none"> <li>1. Number sequences involving decimals H73</li> </ol>
<b>3.11:</b> Problem Solving: Add and Subtract Money	<ol style="list-style-type: none"> <li>1. Add and subtract money amounts A8R</li> <li>2. Add and subtract money: word problems DLC</li> </ol>
<b>3.12:</b> Choose a Method	<ol style="list-style-type: none"> <li>1. Add and subtract decimal numbers 7VJ</li> <li>2. Add and subtract money amounts A8R</li> <li>3. Add and subtract money: word problems DLC</li> </ol>

# Chapter 4

## Multiply Decimals

Textbook section	IXL skills
<b>4.1:</b> Multiplication Patterns with Decimals	1. Multiply a decimal by a power of ten DN2
<b>4.2:</b> Multiply Decimals and Whole Numbers	1. Multiply a decimal by a one-digit whole number XNY
<b>4.3:</b> Multiplication with Decimals and Whole Numbers	1. Multiply a decimal by a one-digit whole number XNY
<b>4.4:</b> Multiply Using Expanded Form	
<b>4.5:</b> Problem Solving: Multiply Money	1. Multiply money amounts: word problems U5L
<b>4.6:</b> Decimal Multiplication	1. Complete the decimal multiplication sentence using grids R9T
<b>4.7:</b> Multiply Decimals	1. Multiply two decimals: products up to hundredths FLL
<b>4.8:</b> Zeros in the Product	1. Multiply two decimals: products up to hundredths FLL

# Chapter 5

## Divide Decimals

Textbook section	IXL skills
<b>5.1:</b> Division Patterns with Decimals	1. Decimal division patterns over increasing place values GBS
<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	1. Division with decimal quotients J9Z
<b>5.8:</b> Problem Solving: Decimal Operations	1. Multiply decimals and whole numbers: word problems 83A 2. Add, subtract, multiply, and divide decimals: word problems 7SX 3. Multi-step word problems Z76

# Chapter 6

## Add and Subtract Fractions with Unlike Denominators

Textbook section	IXL skills
<b>6.1:</b> Addition with Unlike Denominators	<ol style="list-style-type: none"> <li>Add fractions with unlike denominators using models 2BS</li> <li>Add fractions with unlike denominators D9N</li> </ol>
<b>6.2:</b> Subtraction with Unlike Denominators	<ol style="list-style-type: none"> <li>Subtract fractions with unlike denominators using models QA6</li> <li>Subtract fractions with unlike denominators VSP</li> <li>Add and subtract fractions with unlike denominators: word problems TCD</li> </ol>
<b>6.3:</b> Estimate Fraction Sums and Differences	<ol style="list-style-type: none"> <li>Estimate sums and differences of mixed numbers HUJ</li> </ol>
<b>6.4:</b> Common Denominators and Equivalent Fractions	<ol style="list-style-type: none"> <li>Equivalent fractions MKA</li> <li>Least common denominator R7P</li> </ol>
<b>6.5:</b> Add and Subtract Fractions	<ol style="list-style-type: none"> <li>Add fractions with unlike denominators D9N</li> <li>Subtract fractions with unlike denominators VSP</li> <li>Add and subtract fractions with unlike denominators: word problems TCD</li> </ol>
<b>6.6:</b> Add and Subtract Mixed Numbers	<ol style="list-style-type: none"> <li>Add mixed numbers with unlike denominators FHD</li> <li>Subtract mixed numbers with unlike denominators FAA</li> <li>Add and subtract mixed numbers: word problems 6BH</li> </ol>
<b>6.7:</b> Subtraction with Renaming	<ol style="list-style-type: none"> <li>Subtract mixed numbers with unlike denominators FAA</li> </ol>
<b>6.8:</b> Patterns with Fractions	<ol style="list-style-type: none"> <li>Addition and subtraction patterns with fractions MMR</li> </ol>
<b>6.9:</b> Problem Solving: Practice Addition and Subtraction	<ol style="list-style-type: none"> <li>Add and subtract mixed numbers: word problems 6BH</li> </ol>



**6.10:** Use Properties of Addition

1. Add 3 or more fractions with unlike denominators PBF
  2. Add 3 or more fractions: word problems BFQ
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# Chapter 7

## Multiply Fractions

Textbook section	IXL skills
<b>7.1:</b> Find Part of a Group	1. Multiply fractions by whole numbers I QFQ
<b>7.2:</b> Multiply Fractions and Whole Numbers	1. Multiply unit fractions by whole numbers using number lines X8E 2. Multiply unit fractions by whole numbers using models AFS 3. Multiply fractions by whole numbers using number lines DRU 4. Multiplying fractions by whole numbers: choose the model NKU 5. Multiply fractions by whole numbers I QFQ 6. Multiply fractions by whole numbers II 69L
<b>7.3:</b> Fraction and Whole Number Multiplication	1. Multiply fractions by whole numbers I QFQ 2. Multiply fractions by whole numbers II 69L
<b>7.4:</b> Multiply Fractions	1. Multiply two unit fractions using models HDJ 2. Multiply two fractions using models UAY
<b>7.5:</b> Compare Fraction Factors and Products	1. Multiply unit fractions and whole numbers: sorting FTW 2. Multiply fractions and whole numbers: sorting K69 3. Scaling whole numbers by fractions QH2 4. Scaling fractions by fractions 9RF
<b>7.6:</b> Fraction Multiplication	1. Multiply two fractions using models UAY 2. Multiply two fractions 8KV 3. Multiply two fractions: word problems 38Y
<b>7.7:</b> Area and Mixed Numbers	
<b>7.8:</b> Compare Mixed Number Factors and Products	1. Scaling mixed numbers by fractions S6B



**7.9:** Multiply Mixed Numbers

1. Multiply a mixed number by a whole number 6Q4
2. Multiply a mixed number by a fraction G7W
3. Multiply two mixed numbers P73

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**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	<ol style="list-style-type: none"><li>1. Divide unit fractions by whole numbers GXY</li><li>2. Divide whole numbers by unit fractions using models VDU</li><li>3. Divide whole numbers by unit fractions 3L9</li><li>4. Divide whole numbers and unit fractions SPB</li><li>5. Divide fractions by whole numbers FKT</li><li>6. Divide whole numbers by fractions RHL</li></ol>
<b>8.2:</b> Problem Solving: Use Multiplication	<ol style="list-style-type: none"><li>1. Divide whole numbers by unit fractions using models VDU</li></ol>
<b>8.3:</b> Connect Fractions to Division	
<b>8.4:</b> Fraction and Whole-Number Division	<ol style="list-style-type: none"><li>1. Divide fractions by whole numbers FKT</li><li>2. Divide whole numbers by fractions RHL</li></ol>
<b>8.5:</b> Interpret Division with Fractions	<ol style="list-style-type: none"><li>1. Divide unit fractions and whole numbers: word problems G2N</li></ol>

# Chapter 9

## Algebra: Patterns and Graphing

Textbook section	IXL skills
<b>9.1:</b> Line Plots	<ol style="list-style-type: none"><li>1. Interpret line plots 79C</li><li>2. Create line plots ZBV</li></ol>
<b>9.2:</b> Ordered Pairs	<ol style="list-style-type: none"><li>1. Objects on a coordinate plane NTR</li><li>2. Graph points on a coordinate plane AST</li><li>3. Coordinate planes as maps ZBD</li></ol>
<b>9.3:</b> Graph Data	<ol style="list-style-type: none"><li>1. Create line graphs KFZ</li></ol>
<b>9.4:</b> Line Graphs	<ol style="list-style-type: none"><li>1. Interpret line graphs UFX</li><li>2. Create line graphs KFZ</li></ol>
<b>9.5:</b> Numerical Patterns	<ol style="list-style-type: none"><li>1. Multiplication input/output tables STJ</li><li>2. Complete a geometric number sequence X8Q</li><li>3. Number sequences: word problems R6C</li></ol>
<b>9.6:</b> Problem Solving: Find a Rule	<ol style="list-style-type: none"><li>1. Multiplication input/output tables: find the rule ZXB</li></ol>
<b>9.7:</b> Graph and Analyze Relationships	<ol style="list-style-type: none"><li>1. Graph a two-variable relationship QEH</li></ol>

# Chapter 10

## Convert Units of Measure

Textbook section	IXL skills
<b>10.1:</b> Customary Length	1. Compare and convert customary units of length 7E8
<b>10.2:</b> Customary Capacity	1. Compare and convert customary units of volume 96B
<b>10.3:</b> Weight	1. Compare and convert customary units of weight XST
<b>10.4:</b> Multistep Measurement Problems	
<b>10.5:</b> Metric Measures	1. Compare and convert metric units of length 8MZ 2. Compare and convert metric units of weight TM9 3. Compare and convert metric units of volume 27C 4. Compare and convert metric units PJL  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Conversion tables - metric units 7QS</li> </ul>
<b>10.6:</b> Problem Solving: Customary and Metric Conversions	1. Compare and convert customary units 8DZ 2. Compare and convert metric units PJL  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Conversion tables - customary units 7HU</li> <li>• Compare customary units by multiplying WU8</li> <li>• Conversion tables - metric units 7QS</li> </ul>
<b>10.7:</b> Elapsed Time	1. Convert time units CXF 2. Add and subtract mixed time units QD7 3. Elapsed time N8A 4. Find start and end times: word problems NX7

# Chapter 11

## Geometry and Volume

Textbook section	IXL skills
<b>11.1:</b> Polygons	<ol style="list-style-type: none"><li>1. Is it a polygon? ZH6</li><li>2. Number of sides in polygons 4Z2</li><li>3. Regular and irregular polygons UHC</li></ol>
<b>11.2:</b> Triangles	<ol style="list-style-type: none"><li>1. Classify triangles C64</li></ol>
<b>11.3:</b> Quadrilaterals	<ol style="list-style-type: none"><li>1. Classify quadrilaterals 6ZQ</li></ol>
<b>11.4:</b> Problem Solving: Properties of Two-Dimensional Figures	
<b>11.5:</b> Three-Dimensional Figures	<ol style="list-style-type: none"><li>1. Identify three-dimensional figures HSR</li></ol>
<b>11.6:</b> Unit Cubes and Solid Figures	<ol style="list-style-type: none"><li>1. Volume of rectangular prisms made of unit cubes WG8</li></ol>
<b>11.7:</b> Understand Volume	<ol style="list-style-type: none"><li>1. Volume of rectangular prisms made of unit cubes WG8</li><li>2. Volume of irregular figures made of unit cubes WCE</li></ol>
<b>11.8:</b> Estimate Volume	
<b>11.9:</b> Volume of Rectangular Prisms	<ol style="list-style-type: none"><li>1. Volume of cubes and rectangular prisms TFL</li></ol>
<b>11.10:</b> Apply Volume Formulas	<ol style="list-style-type: none"><li>1. Volume of cubes and rectangular prisms TFL</li></ol>
<b>11.11:</b> Problem Solving: Compare Volumes	
<b>11.12:</b> Find Volume of Composed Figures	