



# IXL Skill Alignment

4th grade alignment for GO Math! 2015 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	<ol style="list-style-type: none"> <li>1. Value of a digit WLP</li> <li>2. Place value review B5N</li> </ol>
<b>1.2:</b> Read and Write Numbers	<ol style="list-style-type: none"> <li>1. Convert between standard and expanded form M5V</li> <li>2. Writing numbers up to 1,000 in words: convert words to digits DYA</li> <li>3. Writing numbers up to 1,000 in words: convert digits to words 59H</li> <li>4. Writing numbers up to 100,000 in words: convert words to digits SQQ</li> <li>5. Writing numbers up to 100,000 in words: convert digits to words 2RZ</li> <li>6. Writing numbers up to one million in words: convert words to digits 5G4</li> <li>7. Writing numbers up to one million in words: convert digits to words 7WT</li> <li>8. Place value word problems Z47</li> </ol>
<b>1.3:</b> Compare and Order Numbers	<ol style="list-style-type: none"> <li>1. Compare numbers up to one hundred thousand DP2</li> <li>2. Compare numbers up to one million 6Y2</li> </ol>
<b>1.4:</b> Round Numbers	<ol style="list-style-type: none"> <li>1. Rounding: up to millions place E6V</li> </ol>
<b>1.5:</b> Rename Numbers	<ol style="list-style-type: none"> <li>1. Convert between place values KVR</li> </ol>
<b>1.6:</b> Add Whole Numbers	<ol style="list-style-type: none"> <li>1. Add two numbers up to five digits RG2</li> <li>2. Add two numbers up to five digits: word problems ZPY</li> <li>3. Properties of addition D9R</li> <li>4. Choose numbers with a particular sum P5U</li> <li>5. Estimate sums VMD</li> <li>6. Estimate sums: word problems SB9</li> </ol>

**1.7: Subtract Whole Numbers**

1. Subtract numbers up to five digits VP2
  2. Subtract numbers up to five digits: word problems R9N
  3. Choose numbers with a particular difference XEV
  4. Estimate differences QJY
  5. Estimate differences: word problems GWS
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**1.8: Problem Solving - Comparison Problems with Addition and Subtraction**

1. Add two numbers up to five digits: word problems ZPY
  2. Subtract numbers up to five digits: word problems R9N
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# Chapter 2

## Multiply by 1-Digit Numbers

Textbook section	IXL skills
<b>2.1:</b> Multiplication Comparisons	1. Compare numbers using multiplication GGE
<b>2.2:</b> Comparison Problems	1. Addition, subtraction, multiplication, and division word problems QKS
<b>2.3:</b> Multiply Tens, Hundreds, and Thousands	1. Multiplication patterns over increasing place values Y5K 2. Multiply numbers ending in zeroes 7NS 3. Multiply numbers ending in zeroes: word problems K98
<b>2.4:</b> Estimate Products	1. Estimate products: multiply by 1-digit numbers WDG
<b>2.5:</b> Multiply Using the Distributive Property	1. Multiply using the distributive property LXG
<b>2.6:</b> Multiply Using Expanded Form	1. Distributive property: find the missing factor US7
<b>2.7:</b> Multiply Using Partial Products	1. Multiply 1-digit numbers by 2-digit numbers GDW 2. Multiply 1-digit numbers by 3-digit or 4-digit numbers PPM
<b>2.8:</b> Multiply Using Mental Math	
<b>2.9:</b> Problem Solving - Multistep Multiplication Problems	1. Multiply three or more numbers: word problems UVT
<b>2.1:</b> Multiply 2-Digit Numbers with Regrouping	1. Multiply 1-digit numbers by 2-digit numbers GDW 2. Multiplication input/output tables: find the rule KQG
<b>2.11:</b> Multiply 3-Digit and 4-Digit Numbers with Regrouping	1. Multiply 1-digit numbers by 3-digit or 4-digit numbers PPM



**2.12:** Solve Multistep Problems Using Equations

1. Perform multiple operations with whole numbers 9HE
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# Chapter 3

## Multiply 2-Digit Numbers

Textbook section	IXL skills
<b>3.1:</b> Multiply by Tens	
<b>3.2:</b> Estimate Products	1. Estimate products: multiply by 2-digit numbers <small>2TR</small>
<b>3.3:</b> Area Models and Partial Products	1. Box multiplication <small>ERB</small>
<b>3.4:</b> Multiply Using Partial Products	1. Box multiplication <small>ERB</small>
<b>3.5:</b> Multiply with Regrouping	1. Multiply a 2-digit number by a 2-digit number: complete the missing steps <small>XQ8</small> 2. Multiply a 2-digit number by a 2-digit number <small>MLC</small>
<b>3.6:</b> Choose a Multiplication Method	1. Multiply a 2-digit number by a 2-digit number <small>MLC</small>
<b>3.7:</b> Problem Solving - Multiply 2-Digit Numbers	1. Multiply a 2-digit number by a 2-digit number: word problems <small>GZG</small>

# Chapter 4

## Divide by 1-Digit Numbers

Textbook section	IXL skills
<b>4.1:</b> Estimate Quotients Using Multiples	<ol style="list-style-type: none"> <li>1. Divide by 1-digit numbers: pick the better estimate 2FS</li> <li>2. Estimate quotients RCU</li> </ol>
<b>4.2:</b> Remainders	
<b>4.3:</b> Interpret the Remainder	<ol style="list-style-type: none"> <li>1. Divide 2-digit numbers by 1-digit numbers: word problems QMT</li> <li>2. Divide 2-digit numbers by 1-digit numbers: interpret remainders 5WV</li> </ol>
<b>4.4:</b> Divide Tens, Hundreds, and Thousands	<ol style="list-style-type: none"> <li>1. Division patterns over increasing place values Z5Y</li> <li>2. Divide numbers ending in zeroes by 1-digit numbers 2K3</li> </ol>
<b>4.5:</b> Estimate Quotients Using Compatible Numbers	<ol style="list-style-type: none"> <li>1. Divisibility rules UTK</li> <li>2. Divisibility rules: word problems ZG8</li> </ol>
<b>4.6:</b> Division and the Distributive Property	
<b>4.7:</b> Divide Using Repeated Subtraction	<ol style="list-style-type: none"> <li>1. Divide 2-digit numbers by 1-digit numbers 4T7</li> </ol>
<b>4.8:</b> Divide Using Partial Quotients	<ol style="list-style-type: none"> <li>1. Divide 2-digit numbers by 1-digit numbers 4T7</li> </ol>
<b>4.9:</b> Model Division with Regrouping	<ol style="list-style-type: none"> <li>1. Divide 2-digit numbers by 1-digit numbers 4T7</li> </ol>
<b>4.1:</b> Place the First Digit	<ol style="list-style-type: none"> <li>1. Divide larger numbers by 1-digit numbers GE8</li> </ol>
<b>4.11:</b> Divide by 1-Digit Numbers	<ol style="list-style-type: none"> <li>1. Divide 2-digit numbers by 1-digit numbers 4T7</li> <li>2. Divide 2-digit numbers by 1-digit numbers: complete the table UFM</li> <li>3. Divide larger numbers by 1-digit numbers GE8</li> <li>4. Divide larger numbers by 1-digit numbers: word problems DKK</li> </ol>



- 5. Divide larger numbers by 1-digit numbers: complete the table 2UB
- 6. Divide larger numbers by 1-digit numbers: interpret remainders J8D
- 7. Choose numbers with a particular quotient MYU

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**4.12: Problem Solving - Multistep Division Problems**

- 1. Multi-step word problems EA9
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# Chapter 5

## Factors, Multiples, and Patterns

Textbook section	IXL skills
<b>5.1:</b> Model Factors	
<b>5.2:</b> Factors and Divisibility	<ol style="list-style-type: none"><li>1. Identify factors 2S9</li><li>2. Choose numbers with a particular product U9N</li></ol>
<b>5.3:</b> Problem Solving - Common Factors	
<b>5.4:</b> Factors and Multiples	<ol style="list-style-type: none"><li>1. Choose the multiples of a given number up to 12 ENC</li></ol>
<b>5.5:</b> Prime and Composite Numbers	<ol style="list-style-type: none"><li>1. Prime and composite: up to 20 TNF</li><li>2. Prime and composite: up to 100 L9R</li></ol>
<b>5.6:</b> Number Patterns	<ol style="list-style-type: none"><li>1. Multiplication input/output tables BEP</li><li>2. Use a rule to complete a number pattern 5P2</li></ol>

# Chapter 6

## Fraction Equivalence and Comparison

Textbook section	IXL skills
<b>6.1:</b> Equivalent Fractions	1. Find equivalent fractions using area models <small>HYC</small>
<b>6.2:</b> Generate Equivalent Fractions	1. Identify equivalent fractions <small>GSG</small>
<b>6.3:</b> Simplest Form	1. Write fractions in lowest terms <small>3R5</small>
<b>6.4:</b> Common Denominators	
<b>6.5:</b> Problem Solving - Find Equivalent Fractions	1. Find equivalent fractions using area models <small>HYC</small>
<b>6.6:</b> Compare Fractions Using Benchmarks	1. Benchmark fractions <small>LUS</small> 2. Compare fractions using benchmarks <small>EHJ</small>
<b>6.7:</b> Compare Fractions	1. Compare fractions using models <small>7XF</small> 2. Compare fractions <small>99U</small> 3. Compare fractions in recipes <small>U2K</small>
<b>6.8:</b> Compare and Order Fractions	1. Graph and order fractions on number lines <small>7GK</small> 2. Order fractions with like numerators or denominators <small>JU2</small> 3. Order fractions <small>MSB</small>

# 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	<ol style="list-style-type: none"> <li>1. Decompose fractions into unit fractions XHG</li> <li>2. Decompose fractions N2Z</li> <li>3. Decompose fractions multiple ways UEW</li> </ol>
<b>7.3:</b> Add Fractions Using Models	<ol style="list-style-type: none"> <li>1. Add fractions with like denominators using number lines 6QH</li> </ol>
<b>7.4:</b> Subtract Fractions Using Models	<ol style="list-style-type: none"> <li>1. Subtract fractions with like denominators using number lines MJX</li> <li>2. Add and subtract fractions with like denominators using number lines GAK</li> </ol>
<b>7.5:</b> Add and Subtract Fractions	<ol style="list-style-type: none"> <li>1. Add fractions with like denominators PDU</li> <li>2. Subtract fractions with like denominators AVF</li> <li>3. Add and subtract fractions with like denominators FXD</li> <li>4. Add and subtract fractions with like denominators: word problems XBR</li> <li>5. Add and subtract fractions with like denominators in recipes LYR</li> </ol>
<b>7.6:</b> Rename Fractions and Mixed Numbers	<ol style="list-style-type: none"> <li>1. Convert between improper fractions and mixed numbers JFE</li> </ol>
<b>7.7:</b> Add and Subtract Mixed Numbers	<ol style="list-style-type: none"> <li>1. Add and subtract mixed numbers with like denominators 9AS</li> </ol>
<b>7.8:</b> Subtraction with Renaming	<ol style="list-style-type: none"> <li>1. Add and subtract mixed numbers with like denominators 9AS</li> </ol>
<b>7.9:</b> Fractions and Properties of Addition	<ol style="list-style-type: none"> <li>1. Add 3 or more fractions with like denominators LNE</li> </ol>
<b>7.1:</b> Problem Solving: Multistep Fraction Problems	

# Chapter 8

## Multiply Fractions by Whole Numbers

Textbook section	IXL skills
<b>8.1:</b> Multiples of Unit Fractions	<ol style="list-style-type: none"><li>1. Multiply unit fractions by whole numbers using number lines XKJ</li></ol>
<b>8.2:</b> Multiples of Fractions	<ol style="list-style-type: none"><li>1. Multiples of unit fractions: find the missing numbers VYG</li><li>2. Multiply fractions by whole numbers using number lines Q7B</li></ol>
<b>8.3:</b> Multiply a Fraction by a Whole Number Using Models	<ol style="list-style-type: none"><li>1. Multiply unit fractions by whole numbers using models 8J3</li><li>2. Multiply fractions by whole numbers using models Y5C</li></ol>
<b>8.4:</b> Multiply a Fraction or Mixed Number by a Whole Number	<ol style="list-style-type: none"><li>1. Multiply unit fractions by whole numbers: sorting VGC</li><li>2. Multiply unit fractions by whole numbers EXQ</li><li>3. Multiply unit fractions by whole numbers: word problems DSB</li><li>4. Multiply fractions by whole numbers: sorting X48</li><li>5. Multiply fractions by whole numbers JLH</li><li>6. Multiply fractions by whole numbers: word problems LX8</li><li>7. Multiply fractions and mixed numbers by whole numbers in recipes 7B3</li></ol>
<b>8.5:</b> Problem Solving: Comparison Problems with Fractions	

# 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	<ol style="list-style-type: none"><li>1. What decimal number is illustrated? B7E</li><li>2. Model decimals and fractions TPV</li><li>3. Decimal number lines EWY</li><li>4. Graph fractions as decimals on number lines 2N9</li><li>5. Convert fractions and mixed numbers to decimals - denominators of 10 and 100 6P7</li></ol>
<b>9.3:</b> Equivalent Fractions and Decimals	<ol style="list-style-type: none"><li>1. Equivalent decimals BZ2</li></ol>
<b>9.4:</b> Relate Fractions, Decimals, and Money	<ol style="list-style-type: none"><li>1. Count coins and bills - up to \$20 bill M67</li></ol>
<b>9.5:</b> Problem Solving: Money	<ol style="list-style-type: none"><li>1. Find the change, price, or amount paid RTE</li></ol>
<b>9.6:</b> Add Fractional Parts of 10 and 100	<ol style="list-style-type: none"><li>1. Identify fraction expressions with a particular sum: denominators of 10 and 100 TZH</li></ol>
<b>9.7:</b> Compare Decimals	<ol style="list-style-type: none"><li>1. Compare money amounts EAL</li><li>2. Compare decimals on number lines T2W</li><li>3. Compare decimal numbers DY5</li><li>4. Compare decimals and fractions on number lines 8YG</li><li>5. Compare decimals and fractions TB7</li></ol>

# Chapter 10

## Two Dimensional Figures

Textbook section	IXL skills
<b>10.1:</b> Lines, Rays, and Angles	<ol style="list-style-type: none"><li>1. Points, lines, line segments, rays, and angles 9MK</li><li>2. Acute, right, obtuse, and straight angles R5K</li></ol>
<b>10.2:</b> Classify Triangles by Angles	<ol style="list-style-type: none"><li>1. Acute, obtuse, and right triangles 7QK</li></ol>
<b>10.3:</b> Parallel Lines and Perpendicular Lines	<ol style="list-style-type: none"><li>1. Parallel, perpendicular, and intersecting lines 8VQ</li></ol>
<b>10.4:</b> Classify Quadrilaterals	<ol style="list-style-type: none"><li>1. Parallel sides in quadrilaterals 58M</li><li>2. Identify parallelograms DJ9</li><li>3. Identify trapezoids 9MJ</li><li>4. Identify rectangles GHH</li><li>5. Identify rhombuses KUU</li><li>6. Classify quadrilaterals A6V</li></ol>
<b>10.5:</b> Line Symmetry	<ol style="list-style-type: none"><li>1. Identify lines of symmetry 9FD</li></ol>
<b>10.6:</b> Find and Draw Lines of Symmetry	<ol style="list-style-type: none"><li>1. Draw lines of symmetry SQF</li><li>2. Count lines of symmetry MWS</li></ol>
<b>10.7:</b> Problem Solving: Shape Patterns	<ol style="list-style-type: none"><li>1. Find the next shape in a pattern KG8</li><li>2. Complete a repeating pattern FNW</li><li>3. Make a repeating pattern V68</li><li>4. Find the next row in a growing pattern of shapes JZP</li></ol>

# Chapter 11

## Angles

Textbook section	IXL skills
<b>11.1:</b> Angles and Fractional Parts of a Circle	
<b>11.2:</b> Degrees	<ol style="list-style-type: none"><li>1. Use fractions to find the measure of an angle Q68</li><li>2. Angles of 90, 180, 270, and 360 degrees UQV</li></ol>
<b>11.3:</b> Measure and Draw Angles	<ol style="list-style-type: none"><li>1. Measure angles with a protractor NCN</li></ol>
<b>11.4:</b> Join and Separate Angles	<ol style="list-style-type: none"><li>1. Adjacent angles VJY</li></ol>
<b>11.5:</b> Problem Solving: Unknown Angles	<ol style="list-style-type: none"><li>1. Adjacent angles VJY</li></ol>

# Chapter 12

## Relative Size of Measurement Units

Textbook section	IXL skills
<b>12.1:</b> Measurement Benchmarks	<ol style="list-style-type: none"> <li>1. Which customary unit is appropriate? YYA</li> <li>2. Which metric unit is appropriate? FPM</li> </ol>
<b>12.2:</b> Customary Units of Length	<ol style="list-style-type: none"> <li>1. Compare and convert customary units of length A89</li> </ol>
<b>12.3:</b> Customary Units of Weight	<ol style="list-style-type: none"> <li>1. Compare and convert customary units of weight LJV</li> </ol>
<b>12.4:</b> Customary Units of Liquid Volume	<ol style="list-style-type: none"> <li>1. Compare and convert customary units of volume GAA</li> <li>2. Compare and convert customary units DRM</li> </ol>
<b>12.5:</b> Line Plots	<ol style="list-style-type: none"> <li>1. Interpret line plots G8K</li> <li>2. Create line plots GNT</li> <li>3. Create and interpret line plots with fractions QQB</li> </ol>
<b>12.6:</b> Metric Units of Length	<ol style="list-style-type: none"> <li>1. Compare and convert metric units of length GZM</li> </ol>
<b>12.7:</b> Metric Units of Mass and Liquid Volume	<ol style="list-style-type: none"> <li>1. Compare and convert metric units of weight 7RC</li> <li>2. Compare and convert metric units of volume FHV</li> <li>3. Compare and convert metric units UL5</li> </ol>
<b>12.8:</b> Units of Time	<ol style="list-style-type: none"> <li>1. Convert time units VNU</li> </ol>
<b>12.9:</b> Problem Solving: Elapsed Time	<ol style="list-style-type: none"> <li>1. Elapsed time TUH</li> <li>2. Elapsed time: word problems VCC</li> <li>3. Find start and end times: multi-step word problems ZQP</li> </ol>
<b>12.1:</b> Mixed Measures	<ol style="list-style-type: none"> <li>1. Convert mixed customary units U95</li> <li>2. Add and subtract mixed customary units GGD</li> <li>3. Convert time units VNU</li> </ol>





4. Add and subtract mixed time units VD2

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**12.11: Patterns in Measurement Units**

1. Conversion tables - customary units LSP

2. Conversion tables - metric units YTJ

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# Chapter 13

## Algebra: Perimeter and Area

Textbook section	IXL skills
<b>13.1:</b> Perimeter	1. Perimeter of polygons HLW
<b>13.2:</b> Area	1. Find the area or missing side length of a rectangle 9E6 2. Area and perimeter: word problems LTP
<b>13.3:</b> Area of Combined Rectangles	1. Area of complex figures (with all right angles) 38W
<b>13.4:</b> Find Unknown Measures	1. Perimeter: find the missing side length QAC 2. Find the area or missing side length of a rectangle 9E6 3. Area and perimeter: word problems LTP
<b>13.5:</b> Problem Solving: Find the Area	1. Area between two rectangles GY2