



# IXL Skill Alignment

5th grade alignment for My Math



Use IXL's interactive skill plan to get up-to-date skill alignments, assign skills to your students, and track progress.

[www.ixl.com/math/skill-plans/my-math-5th-grade](https://www.ixl.com/math/skill-plans/my-math-5th-grade)

This document includes the IXL® skill alignments to McGraw-Hill's **My Math** curriculum. IXL provides skill alignments as a service to teachers, students, and parents. The skill alignments are provided by IXL and are not affiliated with, sponsored by, reviewed, approved or endorsed by McGraw-Hill or any other third party. IXL® and IXL Learning® are registered trademarks of IXL Learning, Inc. All other intellectual property rights (e.g., unregistered and registered trademarks and copyrights) are the property of their respective owners.

# Chapter 1

## Place Value

### Textbook section

### IXL skills

#### Lesson 1: Place Value Through Millions

#### Expanded form

1. Convert between standard and expanded form HU7

#### Standard form

2. Place value 83P
3. Writing numbers in words: convert words to digits EZT

#### Word form

4. Writing numbers in words: convert digits to words DZS
5. Spell word names for numbers up to one million ZEC

#### Lesson 2: Compare and Order Whole Number Through Millions

#### Compare

1. Compare numbers up to millions S8H

#### Order

2. Put numbers in order AET

#### Lesson 3: Hands On: Model Fractions and Decimals

#### Decimals

1. What decimal number is illustrated? CTP

#### Fractions

2. Fractions review PCF

#### Decimals and fractions

3. Model decimals and fractions ZKL

#### Lesson 4: Represent Decimals

1. Understanding decimals expressed in words F9G

#### Lesson 5: Hands On: Understanding Place Value

1. Relationship between decimal place values DVM

#### Lesson 6: Place Value Through Thousandths

1. Place values in decimal numbers X8U
2. Convert decimals between standard and expanded form using fractions BLQ



**Lesson 7:** Compare Decimals

1. Compare decimals on number lines CUF
2. Compare decimal numbers NSG
3. Compare decimals using grids QTG

---

**Lesson 8:** Order Whole Numbers and Decimals

1. Put decimal numbers in order YUX

---

**Lesson 9:** Problem Solving Investigation: Use the Four Step Plan

1. Add and subtract whole numbers: word problems JYY

# Chapter 2

## Multiply Whole Numbers

Textbook section	IXL skills
<b>Lesson 1:</b> Prime Factorization	1. Prime factorization YL2
<b>Lesson 2:</b> Hands On: Prime Factorization Patterns	
<b>Lesson 3:</b> Powers and Exponents	<p><b>Powers of ten</b></p> <ol style="list-style-type: none"> <li>1. Write powers of ten with exponents KGQ</li> <li>2. Evaluate powers of ten XTY</li> <li>3. Understanding powers of ten 8HS</li> </ol> <p><b>Exponents</b></p> <ol style="list-style-type: none"> <li>4. Understanding exponents VDP</li> <li>5. Evaluate exponents XFF</li> </ol> <p><b>Prime factorization with exponents</b></p> <ol style="list-style-type: none"> <li>6. Prime factorization with exponents F5F</li> </ol>
<b>Lesson 4:</b> Multiplication Patterns	<ol style="list-style-type: none"> <li>1. Multiplication patterns over increasing place values BCK</li> <li>2. Multiply numbers ending in zeroes 3V9</li> <li>3. Multiply a whole number by a power of ten: with exponents 92K</li> </ol>
<b>Lesson 5:</b> Problem Solving Investigation: Make a Table	1. Multiplication input/output tables STJ
<b>Lesson 6:</b> Hands On: Use Partial Products and the Distributive Property	<p><b>Partial products</b></p> <ol style="list-style-type: none"> <li>1. Multiply 1-digit numbers by 2-digit numbers using partial products K5D</li> </ol> <p><b>Area models</b></p> <ol style="list-style-type: none"> <li>2. Multiply 1-digit numbers by 2-digit numbers using area models RBL</li> </ol>
<b>Lesson 7:</b> The Distributive Property	1. Multiply using the distributive property 2LR

**Lesson 8:** Estimate Products

1. Estimate products TKD
  2. Estimate products: word problems 9JW
- 

**Lesson 9:** Multiply by One-Digit Numbers

1. Multiply by 1-digit numbers 7H4
  2. Multiply by 1-digit numbers: word problems 94W
- 

**Lesson 10:** Multiply by Two-Digit Numbers

1. Multiply by 2-digit numbers: complete the missing steps 9LX
  2. Multiply 2-digit numbers by 2-digit numbers LLJ
  3. Multiply by 2-digit numbers: word problems J95
  4. Multiply 2-digit numbers by 3-digit numbers JHB
-

# Chapter 3

## Divide by a One-Digit Divisor

Textbook section	IXL skills
<b>Lesson 1:</b> Relate Division to Multiplication	1. Relate multiplication and division VA6
<b>Lesson 2:</b> Hands On: Division Models	
<b>Lesson 3:</b> Two-Digit Dividends	1. Division facts to 12 ZWQ 2. Divide 2-digit numbers by 1-digit numbers VZ2
<b>Lesson 4:</b> Division Patterns	1. Division patterns over increasing place values 8Z6 2. Divide numbers ending in zeroes: up to hundreds 5HS
<b>Lesson 5:</b> Estimate Quotients	1. Estimate quotients: word problems HD6
<b>Lesson 6:</b> Hands On: Division Models with Greater Numbers	
<b>Lesson 7:</b> Hands On: Distributive Property and Partial Quotients	<b>Distributive property</b> 1. Divide 2-digit by 1-digit numbers using the distributive property EGM  <b>Partial quotients</b> 2. Divide using partial quotients HZB
<b>Lesson 8:</b> Divide Three-and Four-Digit Dividends	1. Divide multi-digit numbers by 1-digit numbers XHZ 2. Divide multi-digit numbers by 1-digit numbers: word problems 5DE
<b>Lesson 9:</b> Place the First Digit	
<b>Lesson 10:</b> Quotients with Zeros	1. Divide multi-digit numbers by 1-digit numbers with zeroes in the quotient NQ7
<b>Lesson 11:</b> Hands On: Models to Interpret the Remainder	1. Divide by 1-digit numbers: interpret remainders 72W

**Lesson 12:** Interpret the Remainder

---

**Lesson 13:** Problem Solving Investigation:  
Determine Extra or Missing Information

1. Word problems with extra or missing information 9KF
-

# Chapter 4

## Divide by a Two-Digit Divisor

Textbook section	IXL skills
<b>Lesson 1:</b> Estimate Quotients	<ol style="list-style-type: none"><li>1. Estimate quotients V8H</li><li>2. Estimate quotients: 2-digit divisors EFW</li></ol>
<b>Lesson 2:</b> Hands On: Divide Using Base-Ten Blocks	<ol style="list-style-type: none"><li>1. Divide by 2-digit numbers using models AJA</li></ol>
<b>Lesson 3:</b> Divide by a Two-Digit Divisor	<ol style="list-style-type: none"><li>1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA</li><li>2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW</li></ol>
<b>Lesson 4:</b> Adjust Quotients	<ol style="list-style-type: none"><li>1. Adjust quotients 5FH</li></ol>
<b>Lesson 5:</b> Divide Greater Numbers	<ol style="list-style-type: none"><li>1. Divide 4-digit numbers by 2-digit numbers 35K</li></ol>
<b>Lesson 6:</b> Problem Solving Investigation: Solve a Simpler Problem	<ol style="list-style-type: none"><li>1. Divide 4-digit numbers by 2-digit numbers: word problems J8L</li></ol>



# Chapter 5

## Add and Subtract Decimals

Textbook section	IXL skills
<b>Lesson 1:</b> Round Decimals	1. Round decimals MPB
<b>Lesson 2:</b> Estimate Sums and Differences	1. Estimate sums and differences of decimals using rounding YGG
<b>Lesson 3:</b> Problem Solving Investigation: Estimate or Exact Answer	1. Compare, order, and round decimals: word problems 2MV
<b>Lesson 4:</b> Hands On: Add Decimals Using Base-Ten Blocks	
<b>Lesson 5:</b> Hands On: Add Decimals Using Models	
<b>Lesson 6:</b> Add Decimals	1. Add decimal numbers BDX
<b>Lesson 7:</b> Addition Properties	1. Properties of addition LFE 2. Add using properties RZR
<b>Lesson 8:</b> Hands On: Subtract Decimals Using Base-Ten Blocks	
<b>Lesson 9:</b> Hands On: Subtract Decimals Using Models	
<b>Lesson 10:</b> Subtract Decimals	<p><b>Subtraction</b></p> <p>1. Subtract decimal numbers SC8</p> <p><b>Mixed operations</b></p> <p>2. Add and subtract decimal numbers 7VJ 3. Add and subtract decimals: word problems 35U 4. Add and subtract money amounts A8R</p>

# Chapter 6

## Multiply and Divide Decimals

Textbook section	IXL skills
<b>Lesson 1:</b> Estimate Products of Whole Numbers and Decimals	1. Estimate products of whole numbers and decimals Q6D
<b>Lesson 2:</b> Hands On: Use Models to Multiply	1. Multiply a decimal by a one-digit whole number using blocks U5Q
<b>Lesson 3:</b> Multiply Decimals by Whole Numbers	1. Multiply a decimal by a one-digit whole number XNY
<b>Lesson 4:</b> Hands On: Use Models to Multiply Decimals	1. Complete the decimal multiplication sentence using grids R9T 2. Multiply decimals using grids 66Z
<b>Lesson 5:</b> Multiply Decimals	1. Multiply two decimals: products up to hundredths FLL 2. Multiply two decimals: where does the decimal point go? 6FA
<b>Lesson 6:</b> Multiply Decimals by Powers of Ten	1. Multiply a decimal by a power of ten DN2
<b>Lesson 7:</b> Problem Solving Investigation: Look for a Pattern	1. Multiply decimals and whole numbers: word problems 83A
<b>Lesson 8:</b> Multiplication Properties	1. Properties of multiplication LUE 2. Solve using properties of multiplication: with decimals RG9
<b>Lesson 9:</b> Estimate Quotients	1. Estimate decimal quotients CZ9
<b>Lesson 10:</b> Hands On: Divide Decimals	1. Divide decimals using blocks: complete the equation DDK
<b>Lesson 11:</b> Divide Decimals by Whole Numbers	1. Divide decimals by whole numbers 6B5 2. Divide decimals by whole numbers: word problems NKE

**Lesson 12:** Hands On: Use Models to Divide  
Decimals

---

**Lesson 13:** Divide Decimals

---

**Lesson 14:** Divide Decimals by Powers of Ten

1. Divide by powers of ten H2N
  2. Divide by a power of ten with decimals: find the missing number R2P
  3. Decimal division patterns over increasing place values GBS
-

# Chapter 7

## Expressions and Patterns

### Textbook section

### IXL skills

**Lesson 1:** Hands On: Numerical Expressions

**Lesson 2:** Order of Operations

#### Without parentheses or brackets

1. Evaluate numerical expressions Z5N

#### With parentheses or brackets

2. Evaluate numerical expressions with parentheses HGW
3. Evaluate numerical expressions with parentheses and brackets TVY
4. Evaluate numerical expressions with parentheses in different places 9F5
5. Identify mistakes involving the order of operations JLJ

**Lesson 3:** Write Numerical Expressions

1. Write numerical expressions: two operations 8ME

**Lesson 4:** Problem Solving Investigation: Work Backward

1. Multi-step word problems Z76

**Lesson 5:** Hands On: Generate Patterns

1. Shape patterns 9DE

**Lesson 6:** Patterns

1. Use a rule to complete a number sequence RPP
2. Complete an increasing number sequence GZW
3. Complete a geometric number sequence X8Q
4. Number sequences: mixed review GM2

**Lesson 7:** Hands On: Map Locations

**Lesson 8:** Ordered Pairs

#### Describe the coordinate plane

1. Describe the coordinate plane PF8

#### Find and graph points

2. Objects on a coordinate plane NTR
3. Graph points on a coordinate plane AST

**Give and follow directions**

- 4. Coordinate planes as maps ZBD
- 5. Follow directions on a coordinate plane XQR

---

**Lesson 9:** Graph Patterns

- 1. Graph points from a table HWV
  - 2. Use a rule to complete a table and a graph N9B
-

# Chapter 8

## Fractions and Decimals

Textbook section	IXL skills
<b>Lesson 1:</b> Fractions and Division	<p><b>Solve word problems</b></p> <ol style="list-style-type: none"> <li>1. Understand fractions as division: word problems CTD</li> <li>2. Fractions of a group: word problems MR2</li> </ol> <p><b>Relate division and fractions</b></p> <ol style="list-style-type: none"> <li>3. Relate division and fractions D86</li> </ol>
<b>Lesson 2:</b> Greatest Common Factor	<ol style="list-style-type: none"> <li>1. Greatest common factor 4C2</li> <li>2. Greatest common factor of three numbers 7TA</li> </ol>
<b>Lesson 3:</b> Simplest Form	<ol style="list-style-type: none"> <li>1. Equivalent fractions MKA</li> <li>2. Write fractions in lowest terms A76</li> </ol>
<b>Lesson 4:</b> Problem Solving Investigation: Guess, Check, and Revise	<ol style="list-style-type: none"> <li>1. Guess-and-check problems DRJ</li> </ol>
<b>Lesson 5:</b> Least Common Multiple	<ol style="list-style-type: none"> <li>1. Least common multiple BMQ</li> <li>2. Least common multiple of three or four numbers ZPQ</li> </ol>
<b>Lesson 6:</b> Compare Fractions	<p><b>Find least common denominator</b></p> <ol style="list-style-type: none"> <li>1. Least common denominator R7P</li> </ol> <p><b>Compare fractions</b></p> <ol style="list-style-type: none"> <li>2. Compare fractions 7VD</li> </ol>
<b>Lesson 7:</b> Hands On: Use Models to Write Fractions as Decimals	<ol style="list-style-type: none"> <li>1. Model decimals and fractions ZKL</li> </ol>
<b>Lesson 8:</b> Write Fractions as Decimals	<ol style="list-style-type: none"> <li>1. Convert fractions to decimals 6QG</li> </ol>

# Chapter 9

## Add and Subtract Fractions

Textbook section	IXL skills
<b>Lesson 1:</b> Rounding Fractions	
<b>Lesson 2:</b> Add Like Fractions	1. Add fractions with like denominators C5X
<b>Lesson 3:</b> Subtract Like Fractions	<p><b>Subtraction</b></p> <p>1. Subtract fractions with like denominators Y56</p> <p><b>Mixed operations</b></p> <p>2. Add and subtract fractions with like denominators FXW</p> <p>3. Add and subtract fractions with like denominators: word problems 7YQ</p>
<b>Lesson 4:</b> Hands On: Use Models to Add Unlike Fractions	1. Add fractions with unlike denominators using models 2BS
<b>Lesson 5:</b> Add Unlike Fractions	1. Add fractions with unlike denominators D9N
<b>Lesson 6:</b> Hands On: Use Models to Subtract Unlike Fractions	1. Subtract fractions with unlike denominators using models QA6
<b>Lesson 7:</b> Subtract Unlike Fractions	<p>1. Subtract fractions with unlike denominators VSP</p> <p>2. Add and subtract fractions with unlike denominators: word problems TCD</p> <p>3. Complete addition and subtraction sentences with fractions FCA</p>
<b>Lesson 8:</b> Problem Solving Investigation: Determine Reasonable Answers	1. Multi-step word problems: identify reasonable answers NNJ
<b>Lesson 9:</b> Estimate Sums and Differences	<p>1. Estimate sums and differences of mixed numbers HJJ</p> <p>2. Round mixed numbers RYP</p>
<b>Lesson 10:</b> Hands On: Use Models to Add Mixed Numbers	

**Lesson 11:** Add Mixed Numbers

1. Add mixed numbers with unlike denominators FHD
- 

**Lesson 12:** Subtract Mixed Numbers

---

**Lesson 13:** Subtract with Renaming

**Subtraction**

1. Subtract mixed numbers with unlike denominators FAA

**Mixed operations**

2. Add and subtract mixed numbers with unlike denominators RZC
  3. Add and subtract mixed numbers: word problems 6BH
  4. Complete addition and subtraction sentences with mixed numbers PSP
-



# Chapter 10

## Multiply and Divide Fractions

Textbook section	IXL skills
<b>Lesson 1:</b> Hands On: Part of a Number	<ol style="list-style-type: none"> <li>Fractions of a number I AHX</li> <li>Fractions of a number: word problems LPC</li> </ol>
<b>Lesson 2:</b> Estimate Products of Fractions	<ol style="list-style-type: none"> <li>Estimate products of fractions and whole numbers USL</li> </ol>
<b>Lesson 3:</b> Hands On: Model Fraction Multiplication	<ol style="list-style-type: none"> <li>Multiply unit fractions by whole numbers using models AFS</li> <li>Multiplying fractions by whole numbers: choose the model NKU</li> <li>Multiply fractions by whole numbers using models: complete the equation VXF</li> </ol>
<b>Lesson 4:</b> Multiply Whole Numbers and Fractions	<ol style="list-style-type: none"> <li>Multiply fractions by whole numbers I QFQ</li> <li>Multiply fractions by whole numbers II 69L</li> <li>Multiply fractions by whole numbers: word problems U2V</li> </ol>
<b>Lesson 5:</b> Hands On: Use Models to Multiply Fractions	<ol style="list-style-type: none"> <li>Multiply two unit fractions using models HDJ</li> <li>Multiply two fractions using models: fill in the missing factor AT7</li> <li>Multiply two fractions using models UAY</li> </ol>
<b>Lesson 6:</b> Multiply Fractions	<ol style="list-style-type: none"> <li>Multiply two fractions 8KV</li> <li>Multiply two fractions: word problems 38Y</li> </ol>
<b>Lesson 7:</b> Multiply Mixed Numbers	<p><b>Multiply a mixed number and a whole number</b></p> <ol style="list-style-type: none"> <li>Multiply a mixed number by a whole number using a model I ZJ7</li> <li>Multiply a mixed number by a whole number using a model II FWN</li> <li>Multiply a mixed number by a whole number 6Q4</li> </ol>

**Multiply a mixed number and a fraction**

4. Multiply with mixed numbers using area models WVR
5. Multiply a mixed number by a fraction G7W
6. Multiply fractions and mixed numbers in recipes QHN

**Multiply two mixed numbers**

7. Multiply two mixed numbers P73
8. Multiplication with mixed numbers: word problems 5W6

**Lesson 8:** Hands On: Multiplication as Scaling

1. Scaling whole numbers by fractions QH2
2. Scaling whole numbers by fractions: justify your answer Q7M
3. Scaling fractions by fractions 9RF
4. Scaling mixed numbers by fractions S6B

**Lesson 9:** Hands On: Division and Unit Fractions

1. Divide whole numbers by unit fractions using models VDU
2. Divide unit fractions by whole numbers using models XML

**Lesson 10:** Divide Whole Numbers by Unit Fractions

1. Divide whole numbers by unit fractions 3L9

**Lesson 11:** Divide Unit Fractions by Whole Numbers

1. Divide unit fractions by whole numbers GXY

**Lesson 12:** Problem Solving Investigation: Draw a Diagram

1. Divide unit fractions and whole numbers: word problems G2N

# Chapter 11

## Measurement

Textbook section	IXL skills
<b>Lesson 1:</b> Hands On: Measure with a Ruler	1. Measure using an inch ruler MHR
<b>Lesson 2:</b> Convert Customary Units of Length	1. Compare and convert customary units of length 7E8
<b>Lesson 3:</b> Problem Solving Investigation: Use Logical Reasoning	1. Find the order G2C
<b>Lesson 4:</b> Hands On: Estimate and Measure Weight	
<b>Lesson 5:</b> Convert Customary Units of Weight	1. Compare and convert customary units of weight XST
<b>Lesson 6:</b> Hands On: Estimate and Measure Capacity	
<b>Lesson 7:</b> Convert Customary Units of Capacity	<p><b>Capacity</b></p> <p>1. Compare and convert customary units of volume 96B</p> <p><b>Mixed units</b></p> <p>2. Compare and convert customary units 8DZ</p> <p>3. Conversion tables - customary units 7HU</p>
<b>Lesson 8:</b> Display Measurement Data on a Line Plot	1. Create and interpret line plots with fractions XBS
<b>Lesson 9:</b> Hands On: Metric Rulers	1. Measuring using a centimeter ruler TVN
<b>Lesson 10:</b> Convert Metric Units of Length	1. Compare and convert metric units of length 8MZ
<b>Lesson 11:</b> Hands On: Estimate and Measure Metric Mass	
<b>Lesson 12:</b> Convert Metric Units of Mass	1. Compare and convert metric units of weight TM9

**Lesson 13:** Convert Metric Units of Capacity

**Capacity**

1. Compare and convert metric units of volume 27C

**Mixed units**

2. Compare and convert metric units PJL
  3. Convert metric units involving decimals 2Q8
  4. Conversion tables - metric units 7QS
-

# Chapter 12

## Geometry

Textbook section	IXL skills
<b>Lesson 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>Lesson 2:</b> Hands On: Sides and Angles of Triangles	
<b>Lesson 3:</b> Classify Triangles	<ol style="list-style-type: none"> <li>1. Acute, obtuse, and right triangles N77</li> <li>2. Scalene, isosceles, and equilateral triangles R94</li> <li>3. Classify triangles C64</li> </ol>
<b>Lesson 4:</b> Hands On: Side and Angles of Quadrilaterals	<ol style="list-style-type: none"> <li>1. Parallel sides in quadrilaterals AJV</li> </ol>
<b>Lesson 5:</b> Classify Quadrilaterals	<p><b>Identify quadrilaterals</b></p> <ol style="list-style-type: none"> <li>1. Identify parallelograms AJB</li> <li>2. Identify trapezoids FZD</li> <li>3. Identify rectangles XAE</li> <li>4. Identify rhombuses C66</li> <li>5. Classify quadrilaterals 6ZQ</li> </ol> <p><b>Draw quadrilaterals</b></p> <ol style="list-style-type: none"> <li>6. Draw quadrilaterals VYE</li> </ol> <p><b>Describe relationships</b></p> <ol style="list-style-type: none"> <li>7. Identify the relationships between quadrilaterals KCG</li> <li>8. Describe relationships among quadrilaterals SZT</li> </ol>
<b>Lesson 6:</b> Hands On: Build Three-Dimensional Figures	<ol style="list-style-type: none"> <li>1. Nets of three-dimensional figures 9LV</li> </ol>
<b>Lesson 7:</b> Three-Dimensional Figures	<p><b>Identify shapes</b></p> <ol style="list-style-type: none"> <li>1. Identify three-dimensional figures HSR</li> </ol>

**Describe shapes**

2. Count vertices, edges, and faces ZHF

**Lesson 8:** Hands On: Use Models to Find Volume

1. Volume of rectangular prisms made of unit cubes WG8

**Lesson 9:** Volume of Prisms

1. Volume of cubes and rectangular prisms TFL

**Lesson 10:** Hands On: Build Composite Figures

1. Volume of irregular figures made of unit cubes WCE

**Lesson 11:** Volume of Composite Figures**Lesson 12:** Problems Solving Investigation: Make a Model

1. Volume of cubes and rectangular prisms: word problems NR6

2. Relationship between volume and the area of the base: word problems QMA