



# IXL Skill Alignment

3rd grade alignment for *My Math*



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# Chapter 1

## Place Value

| Textbook section   | IXL skills   |
|--|--|
| <b>Lesson 1:</b> Place Value Through Thousands                         | <p><b>Place value models</b></p> <ol style="list-style-type: none"> <li>Place value models up to thousands DDS</li> </ol> <p><b>Value of a digit</b></p> <ol style="list-style-type: none"> <li>Value of a digit DHS</li> </ol> <p><b>Place value names</b></p> <ol style="list-style-type: none"> <li>Place value names up to thousands GEV</li> </ol> <p><b>Expanded form</b></p> <ol style="list-style-type: none"> <li>Convert to/from a number KSN</li> <li>Convert from expanded form 8MP</li> <li>Convert between standard and expanded form 2GS</li> </ol> <p><b>Place value puzzles</b></p> <ol style="list-style-type: none"> <li>Place value word problems 5TF</li> </ol> |
| <b>Lesson 2:</b> Compare Numbers                                       | <ol style="list-style-type: none"> <li>Compare numbers 56H</li> <li>Which number is greatest/least? UG2</li> </ol>   |
| <b>Lesson 3:</b> Order Numbers   | <ol style="list-style-type: none"> <li>Order numbers X92</li> </ol>  |
| <b>Lesson 4:</b> Round to the Nearest Ten                              | <ol style="list-style-type: none"> <li>Round to the nearest ten JDN</li> <li>Round to the nearest ten using a number line 8X3</li> </ol>   |
| <b>Lesson 5:</b> Round to the Nearest Hundred                          | <ol style="list-style-type: none"> <li>Rounding - nearest ten or hundred only Q65</li> <li>Round using a number line - nearest ten or hundred 6ST</li> </ol>   |
| <b>Lesson 6:</b> Problem-Solving Investigation: Use the Four-Step Plan | <ol style="list-style-type: none"> <li>Comparison word problems with addition and subtraction 5L2</li> </ol>   |

# Chapter 2

## Addition

| Textbook section   | IXL skills   |
|--|--|
| <b>Lesson 1:</b> Addition Properties                               | <ol style="list-style-type: none"> <li>1. Properties of addition NY2</li> <li>2. Complete the equation using properties of addition CGS</li> <li>3. Add using properties KYA</li> </ol>  |
| <b>Lesson 2:</b> Patterns in the Addition Table                    | <ol style="list-style-type: none"> <li>1. Even or odd: arithmetic rules L63</li> </ol>   |
| <b>Lesson 3:</b> Addition Patterns                                 | <ol style="list-style-type: none"> <li>1. Addition patterns over increasing place values 5RG</li> <li>2. Add multiples of 10 or 100 6TG</li> </ol>   |
| <b>Lesson 4:</b> Add Mentally                                      |  |
| <b>Lesson 5:</b> Estimate Sums                                     | <ol style="list-style-type: none"> <li>1. Estimate sums up to 1,000 3Y9</li> <li>2. Estimate sums MBN</li> </ol>   |
| <b>Lesson 6:</b> Hands On: Use Models to Add                       | <ol style="list-style-type: none"> <li>1. Use models to add three-digit numbers: without regrouping ZBB</li> <li>2. Use models to add three-digit numbers: with regrouping NWW</li> </ol>                                      |
| <b>Lesson 7:</b> Add Three-Digit Numbers                           | <ol style="list-style-type: none"> <li>1. Add two numbers up to three digits E83</li> <li>2. Addition input/output tables: up to three digits MUE</li> <li>3. Add two numbers up to three digits: word problems QU2</li> </ol> |
| <b>Lesson 8:</b> Add Four-Digit Numbers                            | <ol style="list-style-type: none"> <li>1. Add two numbers up to four digits P2Q</li> <li>2. Add two numbers up to four digits: word problems CNN</li> </ol>  |
| <b>Lesson 9:</b> Problem-Solving Investigation: Reasonable Answers | <ol style="list-style-type: none"> <li>1. Estimate sums: word problems WB2</li> </ol>  |

# Chapter 3

## Subtraction

| Textbook section   | IXL skills  |
|--|---|
| <b>Lesson 1:</b> Subtract Mentally                                       |   |
| <b>Lesson 2:</b> Estimate Differences                                    | <ol style="list-style-type: none"><li>1. Estimate differences up to 1,000 A47</li><li>2. Estimate differences QDF</li></ol>   |
| <b>Lesson 3:</b> Problem-Solving Investigation: Estimate or Exact Answer | <ol style="list-style-type: none"><li>1. Estimate differences: word problems M42</li></ol>  |
| <b>Lesson 4:</b> Hands On: Subtract with Regrouping                      |   |
| <b>Lesson 5:</b> Subtract Three-Digit Numbers                            | <ol style="list-style-type: none"><li>1. Subtract numbers up to three digits EHT</li><li>2. Subtraction input/output tables: up to three digits J9S</li><li>3. Subtract numbers up to three digits: word problems K88</li></ol> |
| <b>Lesson 6:</b> Subtract Four-Digit Numbers                             | <ol style="list-style-type: none"><li>1. Subtract numbers with four or more digits Y57</li></ol>  |
| <b>Lesson 7:</b> Subtract Across Zeros                                   |   |

# Chapter 4

## Understand Multiplication

| Textbook section   | IXL skills   |
|--|--|
| <b>Lesson 1:</b> Hands On: Model Multiplication              | <ol style="list-style-type: none"><li>1. Count equal groups 9K7</li><li>2. Identify multiplication expressions for equal groups 9AE</li><li>3. Write multiplication sentences for equal groups V98</li></ol> |
| <b>Lesson 2:</b> Multiplication as Repeated Addition         | <ol style="list-style-type: none"><li>1. Relate addition and multiplication for equal groups GGC</li><li>2. Relate addition and multiplication P74</li></ol>   |
| <b>Lesson 3:</b> Hands On: Multiply with Arrays              | <ol style="list-style-type: none"><li>1. Make arrays to model multiplication PPR</li></ol>   |
| <b>Lesson 4:</b> Arrays and Multiplication                   | <ol style="list-style-type: none"><li>1. Identify multiplication expressions for arrays HZL</li><li>2. Write multiplication sentences for arrays 5FZ</li></ol>   |
| <b>Lesson 5:</b> Problem-Solving Investigation: Make a Table | <ol style="list-style-type: none"><li>1. Multiplication word problems 9TA</li></ol>  |
| <b>Lesson 6:</b> Use Multiplication to Find Combinations     | <ol style="list-style-type: none"><li>1. Combinations 7A4</li></ol>  |

# Chapter 5

## Understand Division

| Textbook section  | IXL skills   |
|---|--|
| <b>Lesson 1:</b> Hands On: Model Division                     | 1. Divide by counting equal groups UYK   |
| <b>Lesson 2:</b> Division as Equal Sharing                    | 1. Write division sentences for groups FSX<br>2. Write division sentences for arrays 8RW   |
| <b>Lesson 3:</b> Relate Division and Subtraction              |  |
| <b>Lesson 4:</b> Hands On: Relate Division and Multiplication | 1. Relate multiplication and division for groups FTU<br>2. Relate multiplication and division for arrays XSK   |
| <b>Lesson 5:</b> Inverse Operations                           | <p><b>Relate multiplication and division</b></p> <p>1. Relate multiplication and division 67L</p> <p><b>Find the missing numbers</b></p> <p>2. Multiplication facts up to 12: find the missing factor WB8</p> <p>3. Division facts up to 12: find the missing number MFD</p> |
| <b>Lesson 6:</b> Problem-Solving Investigation: Use Models    | 1. Division word problems ECS  |

# Chapter 6

## Multiplication and Division Patterns

| Textbook section   | IXL skills  |
|--|---|
| <b>Lesson 1:</b> Patterns in the Multiplication Table              |   |
| <b>Lesson 2:</b> Multiply by 2                                     | 1. Multiply by 2 94M  |
| <b>Lesson 3:</b> Divide by 2                                       | 1. Divide by 2 ANU  |
| <b>Lesson 4:</b> Multiply by 5                                     | 1. Multiply by 5 Y9E  |
| <b>Lesson 5:</b> Divide by 5                                       | 1. Divide by 5 C9M  |
| <b>Lesson 6:</b> Problem-Solving Investigation: Look for a Pattern | <p><b>Multiplication</b></p> <ol style="list-style-type: none"> <li>Multiplication input/output tables 8CM</li> <li>Multiplication input/output tables: find the rule D5U</li> </ol> <p><b>Division</b></p> <ol style="list-style-type: none"> <li>Division input/output tables RK9</li> <li>Division input/output tables: find the rule 4Z8</li> </ol> <p><b>Growing patterns</b></p> <ol style="list-style-type: none"> <li>Find the next row in a growing pattern 8SQ</li> </ol> |
| <b>Lesson 7:</b> Multiply by 10                                    | 1. Multiply by 10 6YD   |
| <b>Lesson 8:</b> Multiples of 10                                   | 1. Multiply by a multiple of ten MS6  |
| <b>Lesson 9:</b> Divide by 10                                      | 1. Divide by 10 YRG   |

# Chapter 7

## Multiplication and Division

| Textbook section   | IXL skills   |
|--|--|
| <b>Lesson 1:</b> Multiply by 3   | 1. Multiply by 3 38K   |
| <b>Lesson 2:</b> Divide by 3   | 1. Divide by 3 PCL   |
| <b>Lesson 3:</b> Hands On: Double a Known Fact                               |  |
| <b>Lesson 4:</b> Multiply by 4   | <p><b>Multiply by 4</b></p> <p>1. Multiply by 4 5U6</p> <p><b>Multiply by 2, 3, 4, 5, and 10</b></p> <p>2. Multiplication tables for 2, 3, 4, 5, and 10 DW5</p> <p>3. Multiplication facts for 2, 3, 4, 5, and 10: true or false? 87M</p> <p>4. Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor ZEY</p> |
| <b>Lesson 5:</b> Divide by 4   | <p><b>Divide by 4</b></p> <p>1. Divide by 4 QGT</p> <p><b>Divide by 2, 3, 4, 5, and 10</b></p> <p>2. Division facts for 2, 3, 4, 5, and 10 2JB</p> <p>3. Division facts for 2, 3, 4, 5, and 10: true or false? YSD</p>   |
| <b>Lesson 6:</b> Problem-Solving Investigation: Extra or Missing Information |  |
| <b>Lesson 7:</b> Multiply by 0 and 1   | <p>1. Multiply by 0 BGK</p> <p>2. Multiply by 1 CRE</p>  |
| <b>Lesson 8:</b> Divide with 0 and 1   | 1. Divide by 1 VTL   |



# Chapter 8

## Apply Multiplication and Division

| Textbook section  | IXL skills  |
|---|---|
| <b>Lesson 1:</b> Multiply by 6  | 1. Multiply by 6 SX6  |
| <b>Lesson 2:</b> Multiply by 7  | 1. Multiply by 7 9PT  |
| <b>Lesson 3:</b> Divide by 6 and 7                                      | 1. Divide by 6 97S<br>2. Divide by 7 D2F  |
| <b>Lesson 4:</b> Multiply by 8  | 1. Multiply by 8 SMR  |
| <b>Lesson 5:</b> Multiply by 9  | <p><b>Multiply by 9</b></p> <p>1. Multiply by 9 SUH</p> <p><b>Multiply by 6, 7, 8, and 9</b></p> <p>2. Multiplication tables for 6, 7, 8, and 9 XT7</p> <p>3. Multiplication facts for 6, 7, 8, and 9: true or false? EY</p> <p>4. Multiplication facts for 6, 7, 8, and 9: find the missing factor X7N</p> |
| <b>Lesson 6:</b> Divide by 8 and 9                                      | <p><b>Divide by 8 and 9</b></p> <p>1. Divide by 8 CVD</p> <p>2. Divide by 9 RTB</p> <p><b>Divide by 6, 7, 8, and 9</b></p> <p>3. Division facts for 6, 7, 8, and 9 U2C</p> <p>4. Division facts for 6, 7, 8, and 9: true or false? DBB</p>  |
| <b>Lesson 7:</b> Problem-Solving Investigation: Make and Organized List | 1. Multiplication word problems: find the missing factor F6C  |
| <b>Lesson 8:</b> Multiply by 11 and 12                                  | <p><b>Multiply by 11</b></p> <p>1. Multiply by 11 AZJ</p> <p><b>Multiply by 12</b></p> <p>2. Multiply by 12 8NV</p>   |

**Multiply by facts up to 12**

3. Multiplication tables up to 12 TK7
  4. Multiplication facts up to 12: true or false? YSY
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**Lesson 9:** Divide by 11 and 12**Divide by 11**

1. Divide by 11 WU9

**Divide by 12**

2. Divide by 12 QSY

**Division facts up to 12**

3. Division facts up to 12 TA7
  4. Division facts up to 12: true or false? ZBR
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# Chapter 9

## Properties and Equations

| Textbook section  | IXL skills   |
|---|--|
| <b>Lesson 1:</b> Hands On: Take Apart to Multiply                     | 1. Make arrays to model multiplication PPR   |
| <b>Lesson 2:</b> The Distributive Property                            | 1. Distributive property: find the missing factor 7VP<br>2. Multiply using the distributive property 6W7   |
| <b>Lesson 3:</b> Hands On: Multiply Three Factors                     | 1. Multiply three or more numbers 5EC<br>2. Multiply three or more numbers: word problems X9H  |
| <b>Lesson 4:</b> The Associative Property                             | 1. Properties of multiplication MPE<br>2. Solve using properties of multiplication YPF   |
| <b>Lesson 5:</b> Write Expressions                                    |  |
| <b>Lesson 6:</b> Evaluate Expressions                                 |  |
| <b>Lesson 7:</b> Write Equations                                      | 1. Identify equations DW9<br>2. Write variable equations to represent word problems U6P  |
| <b>Lesson 8:</b> Solve Two-Step Word Problems                         | 1. Two-step mixed operation word problems SRL<br>2. Two-step addition and subtraction word problems CBA<br>3. Two-step multiplication and division word problems 8FP |
| <b>Lesson 9:</b> Problem-Solving Investigation: Use Logical Reasoning | 1. Find the order KUF<br>2. Age puzzles YWU  |

# Chapter 10

## Fractions

### Textbook section

#### Lesson 1: Unit Fractions

### IXL skills

#### Match fractions to models

1. Match unit fractions to models CPK

#### Make fractions

2. Make halves, thirds, and fourths HGP
3. Make sixths and eighths KTM
4. Make halves, thirds, fourths, sixths, and eighths JHE

#### Lesson 2: Part of a Whole

#### Understand fractions

1. Understand fractions: fraction bars 6JL
2. Understand fractions: area models RTW
3. Show fractions: fraction bars ZPW
4. Show fractions: area models NLE

#### Match fractions to models

5. Match fractions to models: halves, thirds, and fourths Y55
6. Match fractions to models YHL

#### Lesson 3: Part of a Set

1. Fractions of a group 8H3

#### Lesson 4: Problem-Solving Investigation: Draw a Diagram

#### Unit fractions

1. Unit fractions: modeling word problems UV8
2. Unit fractions: word problems HM7

#### Fractions of a whole

3. Fractions of a whole: modeling word problems 9PU
4. Fractions of a whole: word problems BV7

#### Fractions of a group

5. Fractions of a group: word problems Z65

**Lesson 5:** Hands On: Fractions on a Number Line**Fractions of number lines**

1. Fractions of number lines: unit fractions TBX
2. Fractions of number lines J8M

**Identify fractions on number lines**

3. Identify unit fractions on number lines JVC
4. Identify fractions on number lines AWH

**Graph fractions on number lines**

5. Graph unit fractions on number lines CBW
6. Graph fractions on number lines 7QM

**Lesson 6:** Equivalent Fractions**Use models**

1. Find equivalent fractions using area models: two models ZJ2

**Use number lines**

2. Identify equivalent fractions on number lines HYM
3. Find equivalent fractions using number lines JL8
4. Graph equivalent fractions on number lines WPQ

**Identify equivalent fractions**

5. Identify equivalent fractions 7DA
6. Find equivalent fractions WMX

**Lesson 7:** Fractions as One Whole

1. Graph fractions equivalent to 1 on number lines 7BL
2. Select fractions equivalent to whole numbers using area models GKZ
3. Find fractions equivalent to whole numbers KCE

**Lesson 8:** Compare Fractions**Use models**

1. Compare fractions using models MJ2

**Use number lines**

2. Graph smaller or larger fractions on a number line 2PH
3. Compare fractions using number lines 38T
4. Graph and compare fractions with like denominators on number lines 63U
5. Graph and compare fractions with like numerators on number lines ZPD

6. Graph and compare fractions on number lines 6H5

**Use words and symbols**

7. Compare fractions 78D

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# Chapter 11

## Measurement

| Textbook section  | IXL skills  |
|---|---|
| <b>Lesson 1:</b> Hands On: Estimate and Measure Capacity      | 1. Which metric unit of volume is appropriate? LYS  |
| <b>Lesson 2:</b> Solve Capacity Problems                      |   |
| <b>Lesson 3:</b> Hands On: Estimate and Measure Mass          | 1. Which metric unit of weight is appropriate? PTF  |
| <b>Lesson 4:</b> Solve Mass Problems                          |   |
| <b>Lesson 5:</b> Tell Time to the Minute                      | 1. Match clocks and times LPT<br>2. Match analog and digital clocks L5U<br>3. Read clocks and write times 5ZQ<br>4. Write times EQS |
| <b>Lesson 6:</b> Time Intervals                               | <b>A.M. or P.M.</b><br>1. A.M. or P.M. MUC<br><br><b>Elapsed time</b><br>2. Elapsed time: find the end time U7B                     |
| <b>Lesson 7:</b> Problem-Solving Investigation: Work Backward | 1. Elapsed time word problems II 5VC  |

# Chapter 12

## Represent and Interpret Data

| Textbook section  | IXL skills   |
|---|--|
| <b>Lesson 1:</b> Collect and Record Data                                | 1. Interpret tally charts 8CW  |
| <b>Lesson 2:</b> Draw Scaled Picture Graphs                             | 1. Interpret pictographs Y5D<br>2. Create pictographs AVG  |
| <b>Lesson 3:</b> Draw Scaled Bar Graphs                                 | 1. Interpret bar graphs V54<br>2. Use bar graphs to solve problems BCJ<br>3. Create bar graphs RPF |
| <b>Lesson 4:</b> Relate Bar Graphs to Scaled Picture Graphs             |  |
| <b>Lesson 5:</b> Draw and Analyze Line Plots                            | 1. Interpret line plots YXD<br>2. Create line plots H5J  |
| <b>Lesson 6:</b> Hands On: Measure to Halves and Fourths of an Inch     | 1. Measure using an inch ruler LC2   |
| <b>Lesson 7:</b> Collect and Display Measurement Data                   | 1. Create line plots with fractions YUR  |
| <b>Lesson 8:</b> Problem-Solving Investigation: Solve a Simpler Problem |  |



# Chapter 13

## Perimeter and Area

| Textbook section  | IXL skills   |
|---|--|
| <b>Lesson 1:</b> Hands On: Find Perimeter                     | <ol style="list-style-type: none"> <li>1. Perimeter: word problems CLD</li> </ol>  |
| <b>Lesson 2:</b> Perimeter                                    | <ol style="list-style-type: none"> <li>1. Perimeter of rectangles ZJT</li> <li>2. Perimeter of rectilinear shapes 65Z</li> <li>3. Perimeter of polygons LLY</li> <li>4. Perimeter: find the missing side length T2V</li> </ol>   |
| <b>Lesson 3:</b> Hands On: Understand Area                    | <p><b>Area of figures</b></p> <ol style="list-style-type: none"> <li>1. Select figures with a given area XR6</li> <li>2. Select two figures with the same area 7GW</li> <li>3. Create figures with a given area Z2H</li> </ol> <p><b>Area of rectangles</b></p> <ol style="list-style-type: none"> <li>4. Create rectangles with a given area V73</li> </ol> |
| <b>Lesson 4:</b> Measure Area                                 | <ol style="list-style-type: none"> <li>1. Find the area of figures made of unit squares FLQ</li> <li>2. Find the area of rectangles with missing unit squares KTN</li> </ol>   |
| <b>Lesson 5:</b> Hands On: Tile Rectangles to Find Area       | <ol style="list-style-type: none"> <li>1. Tile a rectangle and find the area EKK</li> </ol>  |
| <b>Lesson 6:</b> Area of Rectangles                           | <ol style="list-style-type: none"> <li>1. Find the area of rectangles and squares 8KJ</li> <li>2. Find the missing side length of a rectangle X66</li> <li>3. Find the area of rectangles: word problems 5HA</li> <li>4. Multiply to find the area of a rectangle made of unit squares S7G</li> </ol>  |
| <b>Lesson 7:</b> Hands On: Area and the Distributive Property |  |
| <b>Lesson 8:</b> Area of Composite Figures                    | <ol style="list-style-type: none"> <li>1. Find the area of complex figures SGP</li> <li>2. Find the areas of complex figures by dividing them into rectangles DVB</li> </ol>   |

**Lesson 9:** Area and Perimeter

1. Compare area and perimeter of two figures PMF
2. Relationship between area and perimeter I ZWF
3. Relationship between area and perimeter II KNR

**Lesson 10:** Problem-Solving Investigation: Draw a Diagram

1. Use area and perimeter to determine cost 8H8

# Chapter 14

## Geometry

| Textbook section   | IXL skills   |
|--|--|
| <b>Lesson 1:</b> Hands On: Angles  | <ol style="list-style-type: none"><li>1. Lines, line segments, and rays 24L</li><li>2. Angles greater than, less than, or equal to a right angle 2YR</li></ol>   |
| <b>Lesson 2:</b> Polygons  | <ol style="list-style-type: none"><li>1. Count and compare sides and vertices GWA</li><li>2. Is it a polygon? C2P</li></ol>  |
| <b>Lesson 3:</b> Hands On: Triangles                                     |  |
| <b>Lesson 4:</b> Quadrilaterals  | <ol style="list-style-type: none"><li>1. Parallel sides in quadrilaterals 6E9</li><li>2. Identify parallelograms V6L</li><li>3. Identify trapezoids 67A</li><li>4. Identify rectangles 47T</li><li>5. Identify rhombuses ZSD</li></ol> |
| <b>Lesson 5:</b> Shared Attributes of Quadrilaterals                     | <ol style="list-style-type: none"><li>1. Classify quadrilaterals CNJ</li></ol>   |
| <b>Lesson 6:</b> Problem-Solving Investigation: Guess, Check, and Revise |  |
| <b>Lesson 7:</b> Partition Shapes  | <ol style="list-style-type: none"><li>1. Identify equal parts FHY</li></ol>  |