



# IXL Skill Alignment

5th grade alignment for Eureka Math Common Core Curriculum



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# Module 1

## Place Value and Decimal Fractions

### Textbook section

### IXL skills

**Topic A:** Multiplicative Patterns on the Place Value Chart

1. Multiply a decimal by a power of ten DN2
2. Compare and convert metric units of length 8MZ

*Also consider:*

- Place values in decimal numbers X8U
- Divide by powers of ten H2N

**Topic B:** Decimal Fractions and Place Value Patterns

1. Convert decimals between standard and expanded form WTU

*Also consider:*

- Understanding decimals expressed in words F9G
- Place values in decimal numbers X8U
- Compare decimal numbers NSG
- Put decimal numbers in order YUX

**Topic C:** Place Value and Rounding Decimal Fractions

**Topic D:** Adding and Subtracting Decimals

1. Add decimal numbers BDX
2. Subtract decimal numbers SC8
3. Add and subtract decimal numbers 7VJ
4. Add and subtract decimals: word problems 35U

*Also consider:*

- Add and subtract money amounts A8R
- Add and subtract money: word problems DLC

**Topic E:** Multiplying Decimals

**Topic F:** Dividing Decimals

1. Add and subtract decimals: word problems 35U
2. Add and subtract money: word problems DLC
3. Price lists WUU

*Also consider:*

- Add, subtract, multiply, and divide decimals:  
word problems 7SX
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## Module 2

### Multi-Digit Whole Number and Decimal Fraction Operations

Textbook section	IXL skills
<b>Topic A:</b> Mental Strategies for Multi-Digit Whole Number Multiplication	<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 numbers ending in zeroes: word problems 8KY</li> <li>4. Estimate products TKD</li> <li>5. Estimate products: word problems 9JW</li> </ol>
<b>Topic B:</b> The Standard Algorithm for Multi-Digit Whole Number Multiplication	<ol style="list-style-type: none"> <li>1. Multiply 2-digit numbers by 2-digit numbers LLJ</li> <li>2. Multiply 2-digit numbers by 3-digit numbers JHB</li> <li>3. Multiply by 3-digit numbers NSP</li> <li>4. Write numerical expressions: two operations 8ME</li> </ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> <li>• Multiply 2-digit numbers by larger numbers 9VQ</li> <li>• Multiply by 2-digit numbers: word problems J95</li> </ul>
<b>Topic C:</b> Decimal Multi-Digit Multiplication	<ol style="list-style-type: none"> <li>1. Estimate products of decimals SL7</li> <li>2. Multiply decimals and whole numbers: word problems 83A</li> <li>3. Multiply money amounts: word problems U5L</li> </ol>
<b>Topic D:</b> Measurement Word Problems with Whole Number and Decimal Multiplication	<ol style="list-style-type: none"> <li>1. Compare and convert customary units of volume 96B</li> <li>2. Compare and convert metric units of length 8MZ</li> <li>3. Compare and convert metric units of weight TM9</li> <li>4. Compare and convert metric units of volume 27C</li> <li>5. Compare and convert metric units PJL</li> </ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> <li>• Convert time units CXF</li> </ul>

- Compare and convert customary units of length 7E8
- Compare and convert customary units of weight XST
- Compare and convert customary units 8DZ
- Compare customary units by multiplying WU8

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**Topic E:** Mental Strategies for Multi-Digit Whole Number Division

1. Division patterns over increasing place values 8Z6
2. Divide numbers ending in zeroes J8Y
3. Divide numbers ending in zeroes: word problems G66
4. Estimate quotients V8H
5. Estimate quotients: word problems HD6

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**Topic F:** Partial Quotients and Multi-Digit Whole Number Division

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

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**Topic G:** Partial Quotients and Multi-Digit Decimal Division

1. Decimal division patterns over increasing place values GBS
2. Division with decimal quotients J9Z
3. Division with decimal quotients: word problems Z2X
4. Divide money amounts: word problems 2RU

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**Topic H:** Measurement Word Problems with Multi-Digit Division

1. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW
2. Divide 4-digit numbers by 2-digit numbers: word problems J8L

# Module 3

## Addition and Subtraction of Fractions

### Textbook section

### IXL skills

#### Topic A: Equivalent Fractions

1. Decompose fractions multiple ways 7FU
2. Multiply unit fractions by whole numbers using number lines X8E
3. Multiply fractions by whole numbers using number lines DRU

*Also consider:*

- Add and subtract fractions with like denominators using number lines SUT
- Add and subtract fractions with like denominators FXW
- Multiples of unit fractions: find the missing numbers MR5
- Multiply fractions by whole numbers II 69L
- Multiply fractions by whole numbers: word problems U2V

#### Topic B: Making Like Units Pictorially

1. Add fractions with unlike denominators D9N
2. Subtract fractions with unlike denominators VSP
3. Add and subtract fractions with unlike denominators: word problems TCD

*Also consider:*

- Add fractions with unlike denominators using models 2BS
- Subtract fractions with unlike denominators using models QA6

#### Topic C: Making Like Units Numerically

1. Add fractions with unlike denominators D9N
2. Subtract fractions with unlike denominators VSP
3. Add and subtract fractions with unlike denominators: word problems TCD
4. Add 3 or more fractions with unlike denominators PBF
5. Add 3 or more fractions: word problems BFQ

6. Add mixed numbers with unlike denominators FHD
  7. Subtract mixed numbers with unlike denominators FAA
  8. Add and subtract mixed numbers: word problems 6BH
  9. Add and subtract fractions in recipes W9K
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**Topic D: Further Applications**

1. Compare sums and differences of unit fractions N6D
2. Complete addition and subtraction sentences with fractions FCA
3. Inequalities with addition and subtraction of fractions ZH5
4. Complete addition and subtraction sentences with mixed numbers PSP
5. Inequalities with addition and subtraction of mixed numbers 9GK

*Also consider:*

- Compare fractions using benchmarks MJZ
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# Module 4

## Multiplication and Division of Fractions and Decimal Fractions

Textbook section	IXL skills
<b>Topic A:</b> Line Plots of Fraction Measurements	<ol style="list-style-type: none"> <li>1. Create and interpret line plots with fractions XBS</li> </ol>
<b>Topic B:</b> Fractions as Division	<ol style="list-style-type: none"> <li>1. Convert between improper fractions and mixed numbers B7X</li> </ol>
<b>Topic C:</b> Multiplication of a Whole Number by a Fraction	<ol style="list-style-type: none"> <li>1. Multiply fractions by whole numbers I QFQ</li> <li>2. Multiply fractions by whole numbers II 69L</li> <li>3. Multiply fractions by whole numbers: word problems U2V</li> </ol>
<b>Topic D:</b> Fraction Expressions and Word Problems	<ol style="list-style-type: none"> <li>1. Add and subtract fractions with unlike denominators: word problems TCD</li> <li>2. Multiply fractions by whole numbers: word problems U2V</li> <li>3. Add, subtract, multiply, and divide fractions and mixed numbers: word problems APD</li> </ol>
<b>Topic E:</b> Multiplication of a Fraction by a Fraction	<ol style="list-style-type: none"> <li>1. Complete the decimal multiplication sentence using grids R9T</li> <li>2. Multiply two decimals: products up to hundredths FLL</li> <li>3. Multiply two unit fractions using models HDJ</li> <li>4. Multiply two fractions using models: fill in the missing factor AT7</li> <li>5. Multiply two fractions using models UAY</li> <li>6. Multiply two fractions 8KV</li> <li>7. Multiply two fractions: word problems 38Y</li> <li>8. Multiply a mixed number by a whole number 6Q4</li> <li>9. Multiply a mixed number by a fraction G7W</li> <li>10. Multiply fractions and mixed numbers in recipes QHN</li> </ol>



**Topic F:** Multiplication with Fractions and Decimals as Scaling and Word Problems

1. Convert mixed numbers to decimals 99M
2. Multiply decimals and whole numbers: word problems 83A
3. Multiply fractions by whole numbers: word problems U2V
4. Multiply two fractions: word problems 38Y
5. Scaling whole numbers by fractions QH2
6. Scaling fractions by fractions 9RF
7. Multiply money amounts: word problems U5L

**Topic G:** Division of Fractions and Decimal Fractions

1. Divide unit fractions by whole numbers GXY
2. Divide whole numbers by unit fractions using models VDU
3. Divide whole numbers by unit fractions 3L9
4. Divide whole numbers and unit fractions SPB
5. Divide unit fractions and whole numbers: word problems G2N

**Topic H:** Interpretation of Numerical Expressions

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

# Module 5

## Addition and Multiplication with Volume and Area

Textbook section	IXL skills
<b>Topic A:</b> Concepts of Volume	<ol style="list-style-type: none"> <li>1. Volume of rectangular prisms made of unit cubes <a href="#">WG8</a></li> <li>2. Volume of irregular figures made of unit cubes <a href="#">WCE</a></li> </ol>
<b>Topic B:</b> Volume and the Operations of Multiplication and Addition	<ol style="list-style-type: none"> <li>1. Volume of rectangular prisms made of unit cubes <a href="#">WG8</a></li> <li>2. Volume of cubes and rectangular prisms <a href="#">TFL</a></li> </ol>
<b>Topic C:</b> Area of Rectangular Figures with Fractional Side Lengths	<ol style="list-style-type: none"> <li>1. Multiply two fractions <a href="#">8KV</a></li> <li>2. Multiply a mixed number by a whole number <a href="#">6Q4</a></li> <li>3. Multiply a mixed number by a fraction <a href="#">G7W</a></li> <li>4. Multiply two mixed numbers <a href="#">P73</a></li> <li>5. Area of squares and rectangles <a href="#">E6B</a></li> <li>6. Area between two rectangles <a href="#">KTG</a></li> </ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> <li>• Area of compound figures <a href="#">YGC</a></li> <li>• Area and perimeter: word problems <a href="#">MHV</a></li> </ul>
<b>Topic D:</b> Drawing, Analysis, and Classification of Two-Dimensional Shapes	<ol style="list-style-type: none"> <li>1. Measure angles with a protractor <a href="#">GSJ</a></li> <li>2. Classify quadrilaterals <a href="#">6ZQ</a></li> </ol>

# Module 6

## Problem Solving with the Coordinate Plane

Textbook section	IXL skills
<b>Topic A:</b> Coordinate Systems	<ol style="list-style-type: none"> <li>1. Decimal number lines DQ2</li> <li>2. Objects on a coordinate plane NTR</li> <li>3. Coordinate planes as maps ZBD</li> <li>4. Parallel, perpendicular, and intersecting lines YLJ</li> </ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> <li>• Compare decimals on number lines CUF</li> <li>• Graph and compare fractions on number lines RGV</li> <li>• Follow directions on a coordinate plane XQR</li> </ul>
<b>Topic B:</b> Patterns in the Coordinate Plane and Graphing Number Patterns from Rules	<ol style="list-style-type: none"> <li>1. Multiplication input/output tables STJ</li> <li>2. Multiplication input/output tables: find the rule ZXB</li> <li>3. Multiply fractions by whole numbers: input/output tables 2KU</li> <li>4. Complete a table from a graph 2WL</li> </ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"> <li>• Graph a two-variable relationship QEH</li> </ul>
<b>Topic C:</b> Drawing Figures in the Coordinate Plane	<ol style="list-style-type: none"> <li>1. Parallel, perpendicular, and intersecting lines YLJ</li> <li>2. Line symmetry ZBX</li> </ol>
<b>Topic D:</b> Problem Solving in the Coordinate Plane	<ol style="list-style-type: none"> <li>1. Interpret line graphs UFX</li> <li>2. Create line graphs KFZ</li> </ol>
<b>Topic E:</b> Multi-Step Word Problems	<ol style="list-style-type: none"> <li>1. Write numerical expressions: two operations 8ME</li> <li>2. Evaluate numerical expressions Z5N</li> <li>3. Multi-step word problems Z76</li> <li>4. Word problems with extra or missing information 9KF</li> </ol>

5. Guess-and-check problems DRJ

*Also consider:*

- Find the order G2C

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**Topic F:** The Years In Review: A Reflection on A Story of Units

1. Multiplication patterns over increasing place values BCK
2. Multiply numbers ending in zeroes 3V9
3. Multiply 2-digit numbers by 2-digit numbers LLJ
4. Multiply 2-digit numbers by 3-digit numbers JHB
5. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA
6. Add decimal numbers BDX
7. Subtract decimal numbers SC8
8. Multiply a decimal by a one-digit whole number XNY
9. Multiply two decimals: products up to hundredths FLL
10. Convert between improper fractions and mixed numbers B7X
11. Multiply fractions by whole numbers I QFQ
12. Multiply fractions by whole numbers II 69L
13. Multiply two fractions 8KV
14. Divide unit fractions by whole numbers GXY
15. Divide whole numbers by unit fractions 3L9
16. Add and subtract money amounts A8R
17. Parallel, perpendicular, and intersecting lines YLJ
18. Types of angles RGW
19. Measure angles with a protractor GSJ
20. Classify quadrilaterals 6ZQ
21. Volume of rectangular prisms made of unit cubes WG8
22. Volume of cubes and rectangular prisms TFL

*Also consider:*

- Compare decimal numbers NSG
- Least common denominator R7P
- Parallel sides in quadrilaterals AJV
- Identify three-dimensional figures HSR

- Count vertices, edges, and faces ZHF
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