



# IXL Skill Alignment

6th grade alignment for EngageNY Common Core Curriculum



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# Module 1

## Ratios and Unit Rates

### Textbook section

### IXL skills

#### Topic A: Representing and Reasoning About Ratios

1. Write a ratio 83K
2. Write a ratio: word problems SBQ
3. Identify equivalent ratios 2LM
4. Ratio tables PPF
5. Equivalent ratios: word problems RLZ
6. Scale drawings: word problems UFW

#### Topic B: Collections of Equivalent Ratios

1. Ratio tables PPF
2. Compare ratios: word problems 2HT

*Also consider:*

- Scale drawings: word problems UFW

#### Topic C: Unit Rates

1. Unit rates JSZ
2. Ratios and rates: word problems ZB9
3. Convert and compare customary units 9TJ
4. Convert and compare metric units FDH
5. Unit prices UKD
6. Unit prices with fractions and decimals 9NF

#### Topic D: Percent

1. Convert between percents, fractions, and decimals ZAV
2. Compare percents to each other and to fractions GBY
3. Compare percents and fractions: word problems 9C8
4. Percents of numbers and money amounts 8N4
5. Find what percent one number is of another PE7
6. Find what percent one number is of another: word problems 49B
7. Sale prices 5GH
8. Sale prices: find the original price NW7

*Also consider:*

- Percents of numbers: word problems BBY
  - Which is the better coupon? WLZ
  - Percents - calculate tax, tip, mark-up, and more 32K
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## Module 2

### Arithmetic Operations Including Dividing by a Fraction

#### Textbook section

#### IXL skills

##### Topic A: Dividing Fractions by Fractions

1. Reciprocals 5BT
2. Divide whole numbers and unit fractions DPA
3. Divide fractions by whole numbers in recipes ENK
4. Divide fractions DS2
5. Divide fractions and mixed numbers N2B
6. Divide fractions and mixed numbers: word problems WAH

*Also consider:*

- Divide whole numbers by unit fractions using models DXW

##### Topic B: Multi-Digit Decimal Operations - Adding, Subtracting, and Multiplying

1. Add and subtract decimal numbers 79J
2. Add and subtract decimals: word problems 97T
3. Estimate sums and differences of decimals SJ6
4. Estimate products of decimal numbers EPL
5. Multiply decimals 2WT
6. Multiply money by whole numbers and decimals 3D8
7. Multiply money: word problems C5S

##### Topic C: Dividing Whole Numbers and Decimals

1. Estimate quotients 5RQ
2. Divide decimals by whole numbers NLL
3. Divide decimals by whole numbers: word problems TWZ
4. Division with decimal quotients BFR
5. Divide money amounts WPH
6. Divide money amounts: word problems SEF

*Also consider:*

- Multiply and divide decimals by powers of ten KNH

**Topic D:** Number Theory - Thinking Logically About Multiplicative Arithmetic

1. Divisibility rules WCD
  2. Identify factors BGJ
  3. Prime factorization 9CP
  4. Greatest common factor AMB
  5. Least common multiple NGA
  6. GCF and LCM: word problems ZB8
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# Module 3

## Rational Numbers

Textbook section	IXL skills
<b>Topic A:</b> Understanding Positive and Negative Numbers on the Number Line	<ol style="list-style-type: none"><li>1. Understanding integers 8EP</li><li>2. Integers on number lines K6J</li><li>3. Graph integers on horizontal and vertical number lines 36C</li><li>4. Rational numbers: find the sign V2E</li></ol>
<b>Topic B:</b> Order and Absolute Value	<ol style="list-style-type: none"><li>1. Put decimal numbers in order QV2</li><li>2. Inequalities with decimals M6K</li><li>3. Compare fractions with like and unlike denominators SX9</li><li>4. Put a mix of decimals, fractions, and mixed numbers in order AWW</li><li>5. Absolute value 2YZ</li><li>6. Compare integers 4G6</li><li>7. Compare rational numbers KS2</li><li>8. Put rational numbers in order 5AX</li><li>9. Absolute value of rational numbers KGX</li><li>10. Compare temperatures above and below zero UVD</li></ol>
<b>Topic C:</b> Rational Numbers and the Coordinate Plane	<ol style="list-style-type: none"><li>1. Objects on a coordinate plane GFN</li><li>2. Graph points on a coordinate plane VHQ</li><li>3. Quadrants F5T</li><li>4. Reflect a point over an axis 32S</li><li>5. Distance between two points A7P</li></ol>

# Module 4

## Expressions and Equations

Textbook section	IXL skills
<b>Topic A:</b> Relationships of the Operations	
<b>Topic B:</b> Special Notations of Operations	<ol style="list-style-type: none"> <li>1. Write multiplication expressions using exponents TY5</li> <li>2. Evaluate exponents XDA</li> <li>3. Exponents with decimal bases D5D</li> <li>4. Exponents with fractional bases GEQ</li> <li>5. Evaluate numerical expressions involving whole numbers MLU</li> <li>6. Identify mistakes involving the order of operations V46</li> </ol>
<b>Topic C:</b> Replacing Letters and Numbers	<ol style="list-style-type: none"> <li>1. Evaluate variable expressions with whole numbers Q8Z</li> <li>2. Properties of addition JRM</li> <li>3. Properties of multiplication HC8</li> <li>4. Volume of cubes and rectangular prisms XHF</li> </ol>
<b>Topic D:</b> Expanding, Factoring, and Distributing Expressions	<ol style="list-style-type: none"> <li>1. Identify terms and coefficients 9KE</li> </ol>
<b>Topic E:</b> Expressing Operations in Algebraic Form	<ol style="list-style-type: none"> <li>1. Write variable expressions: two operations CX9</li> <li>2. Write variable expressions: word problems 6LQ</li> </ol>
<b>Topic F:</b> Writing and Evaluating Expressions and Formulas	<ol style="list-style-type: none"> <li>1. Write variable expressions: word problems 6LQ</li> </ol>
<b>Topic G:</b> Solving Equations	<ol style="list-style-type: none"> <li>1. Solve one-step equations with whole numbers WLR</li> </ol>
<b>Topic H:</b> Applications of Equations	<ol style="list-style-type: none"> <li>1. Graph inequalities on number lines CXX</li> <li>2. Write inequalities from number lines N99</li> <li>3. Solve one-step inequalities KRH</li> <li>4. Graph solutions to one-step inequalities PPC</li> </ol>

5. Identify independent and dependent variables:  
word problems 9UJ
  6. Complete a table for a two-variable  
relationship TZB
  7. Write a two-variable equation 2RE
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# Module 5

## Area, Surface Area, and Volume Problems

Textbook section	IXL skills
<b>Topic A:</b> Area of Triangles, Quadrilaterals, and Polygons	<ol style="list-style-type: none"><li>1. Area of quadrilaterals 27F</li><li>2. Area of compound figures 76U</li><li>3. Area between two rectangles EY6</li></ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"><li>• Area between two triangles 8RG</li></ul>
<b>Topic B:</b> Polygons on the Coordinate Plane	<ol style="list-style-type: none"><li>1. Distance between two points A7P</li><li>2. Perimeter SEM</li><li>3. Area of compound figures 76U</li><li>4. Area between two rectangles EY6</li><li>5. Area between two triangles 8RG</li><li>6. Compare area and perimeter of two figures B9Q</li></ol> <p><i>Also consider:</i></p> <ul style="list-style-type: none"><li>• Rectangles: relationship between perimeter and area VTX</li></ul>
<b>Topic C:</b> Volume of Right Rectangular Prisms	<ol style="list-style-type: none"><li>1. Volume of cubes and rectangular prisms XHF</li></ol>
<b>Topic D:</b> Nets and Surface Area	<ol style="list-style-type: none"><li>1. Nets of three-dimensional figures 8KP</li><li>2. Surface area of cubes and rectangular prisms RMG</li></ol>

# Module 6

## Statistics

Textbook section	IXL skills
<b>Topic A:</b> Understanding Distributions	<ol style="list-style-type: none"><li>1. Interpret line plots M5Y</li><li>2. Create line plots 5HD</li><li>3. Create and interpret line plots with fractions QZP</li></ol>
<b>Topic B:</b> Summarizing a Distribution that is Approximately Symmetric Using the Mean and Mean Absolute Deviation	
<b>Topic C:</b> Summarizing a Distribution that is Skewed Using the Median and the Interquartile Range	<ol style="list-style-type: none"><li>1. Box plots E9F</li></ol>
<b>Topic D:</b> Summarizing and Describing Distributions	<ol style="list-style-type: none"><li>1. Box plots E9F</li></ol>