



# IXL Skill Alignment

6th grade alignment for Connected Mathematics 3



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/connected-mathematics-3-6th-grade](https://www.ixl.com/math/skill-plans/connected-mathematics-3-6th-grade)

This document includes the IXL® skill alignments to Pearson Education, Inc.'s **Connected Mathematics 3** 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 Pearson Education, Inc. 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.

Visit [IXL.com](https://www.ixl.com) for more information

IXL Learning © 2021

# Prime Time

## Factors and Multiples

### Topic 1: Building on Factors and Multiples

Textbook section	IXL skills
<b>Lesson 1.1:</b> Playing the Factor Game	1. Identify factors BGJ
<b>Lesson 1.2:</b> Playing to Win	1. Prime or composite DFC
<b>Lesson 1.3:</b> The Product Game	1. Identify factors BGJ
<b>Lesson 1.4:</b> Rectangles and Factor Pairs	1. Identify factors BGJ

### Topic 2: Common Multiples and Common Factors

Textbook section	IXL skills
<b>Lesson 2.1:</b> Riding Ferris Wheels	1. Least common multiple NGA
<b>Lesson 2.2:</b> Looking at Cicada Cycles	1. Least common multiple NGA
<b>Lesson 2.3:</b> Bagging Snacks	1. GCF and LCM: word problems ZB8 2. Greatest common factor AMB

### Topic 3: Factorizations: Searching for Factor Strings

Textbook section	IXL skills
<b>Lesson 3.1:</b> The Product Puzzle	
<b>Lesson 3.2:</b> Finding the Longest Factor String	1. Prime factorization 9CP 2. Prime factorization with exponents WLU
<b>Lesson 3.3:</b> Using Prime Factorizations	1. Greatest common factor AMB 2. Least common multiple NGA 3. Prime factorization with exponents WLU

**Lesson 3.4:** Unraveling the Locker Problem

1. Greatest common factor AMB
2. Least common multiple NGA
3. GCF and LCM: word problems ZB8

**Topic 4: Linking Multiplication and Addition: The Distributive Property****Textbook section****IXL skills****Lesson 4.1:** Reasoning with Even and Odd Numbers**Lesson 4.2:** Using the Distributive Property**Lesson 4.3:** Ordering Operations

1. Evaluate numerical expressions involving whole numbers MLU

**Lesson 4.4:** Choosing an Operation

1. Add, subtract, multiply, or divide two whole numbers: word problems B2K
2. Multi-step word problems LHA

# Comparing Bits and Pieces

## Ratios, Rational Numbers, and Equivalence

### Topic 1: Making Comparisons

Textbook section	IXL skills
<b>Lesson 1.1:</b> Fundraising: Comparing with Fractions and Ratios	
<b>Lesson 1.2:</b> Fundraising Thermometers	
<b>Lesson 1.3:</b> Equivalent Fractions on the Line	1. Fractions on number lines ULL 2. Equivalent fractions review 9P3
<b>Lesson 1.4:</b> Measuring Progress	1. Fractions of a number: word problems 88T
<b>Lesson 1.5:</b> Comparing Fundraising Goals	1. Write a ratio 83K 2. Write a ratio: word problems SBQ 3. Identify equivalent ratios 2LM 4. Write an equivalent ratio NEA 5. Equivalent ratios: word problems RLZ

### Topic 2: Connecting Ratios and Rates

Textbook section	IXL skills
<b>Lesson 2.1:</b> Equal Shares	1. Unit rates JSZ 2. Identify equivalent ratios 2LM
<b>Lesson 2.2:</b> Unequal Shares	
<b>Lesson 2.3:</b> Making Comparisons with Rate Tables	1. Ratio tables PPF 2. Ratios and rates: word problems ZB9

## Topic 3: Extending the Number Line

Textbook section	IXL skills
<b>Lesson 3.1:</b> Extending the Number Line	<ol style="list-style-type: none"> <li>Convert between improper fractions and mixed numbers P9A</li> <li>Absolute value 2YZ</li> <li>Absolute value of rational numbers KGX</li> </ol>
<b>Lesson 3.2:</b> Estimating and Ordering Rational Numbers	<ol style="list-style-type: none"> <li>Compare fractions with like and unlike denominators SX9</li> <li>Fractions on number lines ULL</li> </ol>
<b>Lesson 3.3:</b> Sharing 100 Things	<ol style="list-style-type: none"> <li>What decimal number is illustrated? 42E</li> <li>Decimal place values CR8</li> <li>Word names for decimal numbers NF9</li> </ol>
<b>Lesson 3.4:</b> Decimals on the Number Line	<ol style="list-style-type: none"> <li>Convert between decimals and fractions FL5</li> <li>Put decimal numbers in order QV2</li> <li>Inequalities with decimals M6K</li> </ol>
<b>Lesson 3.5:</b> Earthquake Relief	<ol style="list-style-type: none"> <li>Convert between decimals and fractions FL5</li> <li>Convert between decimals and mixed numbers PD8</li> </ol>

## Topic 4: Working with Percents

Textbook section	IXL skills
<b>Lesson 4.1:</b> Who is the Best?	<ol style="list-style-type: none"> <li>What percentage is illustrated? RHG</li> </ol>
<b>Lesson 4.2:</b> Genetic Traits	
<b>Lesson 4.3:</b> The Art of Comparison	<ol style="list-style-type: none"> <li>Find what percent one number is of another PE7</li> <li>Find what percent one number is of another: word problems 49B</li> </ol>

# Let's Be Rational

## Understanding Fraction Operations

### Topic 1: Extending Addition and Subtraction of Fractions

Textbook section	IXL skills
<b>Lesson 1.1:</b> Getting Close	1. Estimate sums and differences of decimals SJ6
<b>Lesson 1.2:</b> Estimating Sums and Differences	1. Estimate sums and differences of mixed numbers LFH
<b>Lesson 1.3:</b> Land Sections	1. Add and subtract fractions with like denominators LNY 2. Add and subtract fractions with like denominators: word problems E56 3. Add and subtract fractions with unlike denominators AWS 4. Add and subtract fractions with unlike denominators: word problems WT5 5. Add and subtract mixed numbers TPZ 6. Add and subtract mixed numbers: word problems X8C
<b>Lesson 1.4:</b> Visiting the Spice Shop	1. Add and subtract mixed numbers TPZ 2. Add and subtract mixed numbers: word problems X8C

### Topic 2: Building on Multiplication with Fractions

Textbook section	IXL skills
<b>Lesson 2.1:</b> How Much of the Pan Have We Sold?	1. Multiply fractions: word problems 94H 2. Multiply two fractions using models B7P
<b>Lesson 2.2:</b> Modeling Multiplication Situations	1. Estimate products of fractions and whole numbers EFY 2. Estimate products of mixed numbers 5BG 3. Fractions of whole numbers I CGR 4. Fractions of whole numbers II RLN 5. Multiply two fractions BNT

- 6. Multiply fractions: word problems 94H
- 7. Multiply two fractions using models B7P

**Lesson 2.3:** Changing Forms

- 1. Multiply mixed numbers and whole numbers VUH
- 2. Multiply mixed numbers Z9M
- 3. Multiply mixed numbers: word problems 3P8

### Topic 3: Dividing with Fractions

Textbook section	IXL skills
<b>Lesson 3.1:</b> Preparing Food	<ul style="list-style-type: none"> <li>1. Divide whole numbers by unit fractions using models DXW</li> </ul>
<b>Lesson 3.2:</b> Into Pieces	<ul style="list-style-type: none"> <li>1. Divide whole numbers by unit fractions using models DXW</li> </ul>
<b>Lesson 3.3:</b> Sharing a Prize	<ul style="list-style-type: none"> <li>1. Divide whole numbers and unit fractions DPA</li> </ul>
<b>Lesson 3.4:</b> Examining Algorithms for Dividing Fractions	<ul style="list-style-type: none"> <li>1. Reciprocals 5BT</li> <li>2. Divide fractions DS2</li> <li>3. Divide fractions and mixed numbers N2B</li> <li>4. Divide whole numbers and unit fractions DPA</li> </ul>

### Topic 4: Wrapping up the Operations

Textbook section	IXL skills
<b>Lesson 4.1:</b> Just the Facts	
<b>Lesson 4.2:</b> Multiplication and Division Fact Families	
<b>Lesson 4.3:</b> Becoming an Operations Sleuth	<ul style="list-style-type: none"> <li>1. Add and subtract fractions with unlike denominators: word problems WT5</li> <li>2. Multiply fractions: word problems 94H</li> <li>3. Multiply mixed numbers: word problems 3P8</li> <li>4. Divide fractions and mixed numbers: word problems WAH</li> </ul>

# Covering and Surrounding

## Two-Dimensional Measurement

### Topic 1: Designing Bumper Cars: Extending and Building on Area and Perimeter

Textbook section	IXL skills
<b>Lesson 1.1:</b> Designing Bumper Car Rides	
<b>Lesson 1.2:</b> Building Storm Shelters	1. Area of rectangles and squares BE9
<b>Lesson 1.3:</b> Fencing in Spaces	1. Rectangles: relationship between perimeter and area VTX

### Topic 2: Measuring Triangles

Textbook section	IXL skills
<b>Lesson 2.1:</b> Triangles on Grids	
<b>Lesson 2.2:</b> More Triangles	1. Area of triangles C8S
<b>Lesson 2.3:</b> Making Families of Triangles	1. Classify triangles XM6
<b>Lesson 2.4:</b> Designing Triangles Under Constraints	

### Topic 3: Measuring Parallelograms

Textbook section	IXL skills
<b>Lesson 3.1:</b> Parallelograms and Triangles	1. Area of trapezoids PKW
<b>Lesson 3.2:</b> Making Families of Parallelograms	
<b>Lesson 3.3:</b> Designing Parallelograms Under Constraints	
<b>Lesson 3.4:</b> Polygons on Coordinate Grids	1. Graph triangles and quadrilaterals E55



## Topic 4: Measuring Surface Area and Volume

Textbook section	IXL skills
<b>Lesson 4.1:</b> Making Rectangular Boxes	
<b>Lesson 4.2:</b> Filling the Boxes	<ol style="list-style-type: none"><li>1. Volume of cubes and rectangular prisms XHF</li><li>2. Surface area of cubes and rectangular prisms RMG</li></ol>
<b>Lesson 4.3:</b> Designing Gift Boxes	<ol style="list-style-type: none"><li>1. Nets of three-dimensional figures 8KP</li></ol>

# Decimal Ops

## Computing with Decimals and Percents

### Topic 1: Decimal Operations and Estimation

Textbook section	IXL skills
<b>Lesson 1.1:</b> Out to Lunch	
<b>Lesson 1.2:</b> Getting Close	1. Estimate sums and differences of decimals SJ6 2. Estimate products of decimal numbers EPL
<b>Lesson 1.3:</b> Take a Hike	1. Unit rates JSZ

### Topic 2: Adding and Subtracting Decimals

Textbook section	IXL skills
<b>Lesson 2.1:</b> Getting Things in the Right Place	
<b>Lesson 2.2:</b> What's the Difference?	1. Add and subtract decimal numbers 79J
<b>Lesson 2.3:</b> Connecting Operations	1. Add and subtract decimals: word problems 97T

### Topic 3: Multiplying and Dividing Decimals

Textbook section	IXL skills
<b>Lesson 3.1:</b> It's Decimal Time(s)	1. Multiply decimals 2WT
<b>Lesson 3.2:</b> It Works Every Time	1. Estimate products of decimal numbers EPL 2. Multiply decimals 2WT
<b>Lesson 3.3:</b> How Many Times?	1. Division with decimal quotients BFR
<b>Lesson 3.4:</b> Going the Long Way	1. Division with decimal quotients BFR
<b>Lesson 3.5:</b> Challenging Cases	1. Division with decimal quotients BFR

## Topic 4: Using Percents

Textbook section	IXL skills
<b>Lesson 4.1:</b> What's the Tax on this Item?	1. Percents - calculate tax, tip, mark-up, and more 32K
<b>Lesson 4.2:</b> Computing Tips	1. Percents - calculate tax, tip, mark-up, and more 32K
<b>Lesson 4.3:</b> Percent Discounts	1. Sale prices 5GH 2. Which is the better coupon? WLZ
<b>Lesson 4.4:</b> Putting Operations Together	1. Area of compound figures 76U 2. Multi-step word problems LHA

# Variables and Patterns

## Focus on Algebra

### Topic 1: Variables, Tables, and Graphs

Textbook section	IXL skills
<b>Lesson 1.1:</b> Getting Ready to Ride	1. Complete a table for a two-variable relationship TZB
<b>Lesson 1.2:</b> From Atlantic City to Lewes	
<b>Lesson 1.3:</b> From Lewes to Chincoteague Island	
<b>Lesson 1.4:</b> From Chincoteague to Colonial Williamsburg	

### Topic 2: Analyzing Relationships Among Variables

Textbook section	IXL skills
<b>Lesson 2.1:</b> Renting Bicycles	1. Identify independent and dependent variables: word problems 9UJ
<b>Lesson 2.2:</b> Finding Customers	
<b>Lesson 2.3:</b> Predicting Profits	1. Graph points on a coordinate plane VHQ 2. Objects on a coordinate plane GFN 3. Follow directions on a coordinate plane XDQ
<b>Lesson 2.4:</b> What's the Story?	

### Topic 3: Relating Variables With Equations

Textbook section	IXL skills
<b>Lesson 3.1:</b> Visit to Wild World	
<b>Lesson 3.2:</b> Moving, Texting, and Measuring	

**Lesson 3.3:** Group Discounts and a Bonus Card

1. Find a value using two-variable equations: word problems XRJ
2. Does  $(x, y)$  satisfy an equation? ELC
3. Complete a table for a two-variable relationship TZB
4. Write a two-variable equation 2RE
5. Graph a two-variable equation TJA

**Lesson 3.4:** Getting the Calculation Right

1. Evaluate numerical expressions involving integers 7YN
2. Evaluate multi-variable expressions HC9

**Topic 4: Expressions, Equations, and Inequalities**

**Textbook section**

**IXL skills**

**Lesson 4.1:** Taking the Plunge

**Lesson 4.2:** More Than One Way to Say It

**Lesson 4.3:** Putting it All Together

1. Identify equivalent expressions II HTG
2. Write equivalent expressions using properties R8H

**Lesson 4.4:** Finding the Unknown Value

1. Solve one-step equations with whole numbers WLR
2. Solve one-step equations: word problems BXY

**Lesson 4.5:** It's Not Always Equal

1. Solutions to inequalities P9N
2. Graph inequalities on number lines CXX
3. Write inequalities from number lines N99
4. Solve one-step inequalities KRH
5. Graph solutions to one-step inequalities PPC

# Data About Us

## Statistics and Data Analysis

### Topic 1: What's in a Name? Organizing, Representing, and Describing Data

Textbook section	IXL skills
<b>Lesson 1.1:</b> How Many Letters Are in a Name?	<ol style="list-style-type: none"> <li>1. Create line plots 5HD</li> <li>2. Interpret line plots M5Y</li> </ol>
<b>Lesson 1.2:</b> Describing Name Lengths	<ol style="list-style-type: none"> <li>1. Find the mode LNT</li> <li>2. Find the range 2T8</li> <li>3. Interpret charts and graphs to find the mode AMK</li> <li>4. Interpret charts and graphs to find the range UNM</li> </ol>
<b>Lesson 1.3:</b> Describing Name Lengths	<ol style="list-style-type: none"> <li>1. Find the median GDA</li> <li>2. Interpret charts and graphs to find the median XWN</li> </ol>

### Topic 2: Who's in Your Household? Using the Mean

Textbook section	IXL skills
<b>Lesson 2.1:</b> What's a Mean Household Size?	<ol style="list-style-type: none"> <li>1. Calculate mean, median, mode, and range ZZK</li> <li>2. Interpret charts and graphs to find mean, median, mode, and range 2WK</li> </ol>
<b>Lesson 2.2:</b> Comparing Distributions With the Same Mean	
<b>Lesson 2.3:</b> Making Choices	
<b>Lesson 2.4:</b> Who Else Is In Your Household?	

### Topic 3: What's Your Favorite...? Measuring Variability

Textbook section	IXL skills
<b>Lesson 3.1:</b> Estimating Cereal Serving Sizes	
<b>Lesson 3.2:</b> Connecting Cereal Shelf Location and Sugar Content	
<b>Lesson 3.3:</b> Is It Worth the Wait?	1. Calculate mean absolute deviation JUV

### Topic 4: What Numbers Describe Us? Using Graphs to Group Data

Textbook section	IXL skills
<b>Lesson 4.1:</b> Traveling to School	1. Create histograms 7NG 2. Create frequency charts W8X
<b>Lesson 4.2:</b> Jumping Rope	1. Box plots E9F
<b>Lesson 4.3:</b> How Much Taller is a 6th Grader Than a 2nd Grader?	1. Interpret histograms CBF 2. Box plots E9F 3. Interpret line plots M5Y