



IXL Skill Alignment

5th Grade alignment for i-Ready Classroom Mathematics (2024)



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Unit 1

Whole Number Operations and Applications: Volume, Multiplication, and Division

| Textbook section | IXL skills |
|---|---|
| Lesson 1: Understand Volume | |
| Session 1: Explore Volume | |
| Session 2: Develop Understanding of Volume | |
| Session 3: Refine Ideas About Volume | |
| Lesson 2: Find Volume Using Unit Cubes | |
| Session 1: Explore Finding Volume Using Unit Cubes | <ol style="list-style-type: none"> Volume of rectangular prisms made of unit cubes WG8 Volume of rectangular prisms made of unit cubes: word problems QMA |
| Session 2: Develop Finding Volume Using Unit Cubes | |
| Session 3: Refine Finding Volume Using Unit Cubes | <p><i>Also consider</i></p> <ul style="list-style-type: none"> Compare volumes and dimensions of rectangular prisms: word problems JP6 |
| Lesson 3: Find Volume Using Formulas | |
| Session 1: Explore Finding Volume Using Formulas | <ol style="list-style-type: none"> Volume of rectangular prisms made of unit cubes: expressions Q84 Volume of cubes and rectangular prisms TFL |
| Session 2: Develop Finding Volume Using Formulas | |
| Session 3: Develop Breaking Apart Figures to Find Volume | <ol style="list-style-type: none"> Volume of compound figures J83 |
| Session 4: Refine Finding Volume Using Formulas | <ol style="list-style-type: none"> Volume of cubes and rectangular prisms: word problems NR6 |
| Lesson 4: Multiply Multi-Digit Numbers | |
| Session 1: Explore Multiplying Multi-Digit Numbers | <ol style="list-style-type: none"> Multiply 2-digit numbers by 3-digit numbers JHB |

Session 2: Develop Multiplying Multi-Digit Numbers*Also consider*

- Multiply 1-digit numbers by 3-digit or 4-digit numbers using partial products [SBM](#)
- Multiply 2-digit numbers by 2-digit numbers using area models [AMJ](#)

Session 3: Develop Multiplying with the Standard Algorithm

1. Multiply by 2-digit numbers: complete the missing steps [9LX](#)
2. Multiply 2-digit numbers by larger numbers [9VQ](#)

Session 4: Refine Multiplying Multi-Digit Numbers

1. Multiply by 2-digit numbers: word problems [J95](#)

Lesson 5: Divide Multi-Digit Numbers**Session 1:** Explore Dividing Multi-Digit Numbers

1. Divide 3-digit numbers by 2-digit numbers: no remainders [D2T](#)

Session 2: Develop Estimating Quotients

1. Estimate quotients: 2-digit divisors [EFW](#)

Session 3: Develop Using Estimation and Area Models to Divide

1. Divide 3-digit and 4-digit numbers by 2-digit numbers: no remainders [7N7](#)

Session 4: Develop Using Area Models and Partial Quotients to Divide*Also consider*

- Divide by 2-digit numbers using models [AJA](#)
- Divide 3-digit numbers by 1-digit numbers using area models [LZL](#)

Session 5: Refine Dividing Multi-Digit Numbers

1. Divide 4-digit numbers by 2-digit numbers: word problems [J8L](#)

Unit 2

Decimals and Fractions: Place Value, Addition, and Subtraction

| Textbook section | IXL skills |
|--|---|
| Lesson 6: Understand Decimal Place Value | |
| Session 1: Explore Decimal Place Value | 1. Relationship between decimal place values DVM |
| Session 2: Develop Understanding of Decimal Place Value | 1. Place value models for decimal numbers 4U7 <i>Also consider</i> <ul style="list-style-type: none"> Place values in decimal numbers X8U |
| Session 3: Refine Ideas About Decimal Place Value | 1. Equivalent decimals C2X 2. Compare decimals using grids QTG |
| Lesson 7: Understand Powers of 10 | |
| Session 1: Explore Powers of 10 | 1. Understanding powers of ten 8HS 2. Multiply a whole number by a power of ten 92K <i>Also consider</i> <ul style="list-style-type: none"> Evaluate powers of ten XTY |
| Session 2: Develop Understanding of Powers of 10 | 1. Multiply a decimal by a power of ten: with exponents 5KC 2. Divide by a power of ten: with exponents CL2 <i>Also consider</i> <ul style="list-style-type: none"> Multiply a decimal by a power of ten DN2 Divide by powers of ten H2N |
| Session 3: Refine Ideas About Powers of 10 | 1. Multiply and divide by a power of ten: with exponents FXQ <i>Also consider</i> <ul style="list-style-type: none"> Multiply by a power of ten with decimals: find the missing number GC5 Divide by a power of ten with decimals: find the missing number R2P |

Lesson 8: Read and Write Decimals

Session 1: Explore Reading and Writing Decimals

1. What decimal number is illustrated? CTP

Session 2: Develop Reading a Decimal in Word Form

1. Understanding decimals expressed in words F9G

Session 3: Develop Writing a Decimal in Standard Form

1. Convert decimals between standard and expanded form WTU
2. Convert decimals between standard and expanded form using fractions BLQ

Session 4: Refine Reading and Writing Decimals

1. Compose and decompose decimals in multiple ways 7U9

Lesson 9: Compare and Round Decimals

Session 1: Explore Comparing and Rounding Decimals

1. Compare decimals on number lines CUF

Session 2: Develop Comparing Decimals

1. Compare decimal numbers NSG

Also consider

- Convert decimals to mixed numbers TBV

Session 3: Develop Rounding Decimals

1. Round decimals MPB

Also consider

- Decimal number lines DQ2

Session 4: Refine Comparing and Rounding Decimals

1. Compare, order, and round decimals: word problems 2MV

Lesson 10: Add Decimals

Session 1: Explore Adding Decimals

1. Add decimal numbers using blocks NWJ
2. Add decimal numbers BDX

Session 2: Develop Adding Decimals

Session 3: Refine Adding Decimals

1. Add two or three decimals LPU
2. Add decimals: word problems 9LZ

Lesson 11: Subtract Decimals**Session 1:** Explore Subtracting Decimals

1. Subtract decimal numbers using blocks V5T
2. Subtract decimal numbers SC8

Session 2: Develop Subtracting Decimals to Hundredths**Session 3:** Develop Adding On to Subtract

1. Complete the decimal addition or subtraction sentence ZKV

Session 4: Refine Subtracting Decimals

1. Subtract decimals: word problems DWD

Also consider

- Add and subtract decimal numbers 7VJ
- Add and subtract decimals: word problems 35U

Lesson 12: Add Fractions**Session 1:** Explore Adding Fractions

1. Add fractions with unlike denominators using models 2BS

Session 2: Develop Adding Fractions with Unlike Denominators

2. Add fractions with unlike denominators D9N

Also consider

- Least common multiple BMQ
- Least common denominator R7P

Session 3: Develop Adding with Mixed Numbers

1. Add mixed numbers with unlike denominators FHD

Session 4: Refine Adding Fractions

1. Add fractions with unlike denominators: word problems XPP
2. Add mixed numbers with unlike denominators: word problems WSF

Lesson 13: Subtract Fractions**Session 1:** Explore Subtracting Fractions

1. Subtract fractions with unlike denominators using models QA6

Session 2: Develop Subtracting Fractions with Unlike Denominators

2. Subtract fractions with unlike denominators VSP

Session 3: Develop Subtracting with Mixed Numbers

1. Subtract mixed numbers with unlike denominators FAA

Session 4: Refine Subtracting Fractions**Lesson 14:** Add and Subtract in Word Problems**Session 1:** Explore Adding and Subtracting in Word Problems**Session 2:** Develop Estimating in Word Problems with Fractions

1. Estimate sums and differences of fractions using benchmarks 9JR

Session 3: Develop Using Estimation with Decimals

1. Estimate sums and differences of decimals using rounding YGG

Session 4: Refine Adding and Subtracting in Word Problems

1. Add and subtract fractions with unlike denominators: word problems TCD
2. Add and subtract mixed numbers: word problems 6BH
3. Add and subtract decimals: word problems 35U

Also consider

- Add 3 or more fractions: word problems BFQ
- Add and subtract fractions and mixed numbers in recipes W9K

Unit 3

More Decimals and Fractions: Multiplication and Division

Textbook section

IXL skills

Lesson 15: Multiply a Decimal by a Whole Number

Session 1: Explore Multiplying a Decimal by a Whole Number

1. Multiply a decimal by a one-digit whole number: tenths or hundredths [2TZ](#)

2. Multiply a decimal by a one-digit whole number using blocks [U5Q](#)

3. Multiply a decimal by a one-digit whole number using the distributive property [9BA](#)

Session 2: Develop Multiplying a Decimal by a Whole Number

Session 3: Refine Multiplying a Decimal by a Whole Number

1. Multiply a decimal by a one-digit whole number [XNY](#)

2. Multiply a decimal by a one-digit whole number: word problems [BKG](#)

Lesson 16: Multiply Decimals

Session 1: Explore Multiplying Decimals

1. Multiply by 0.1 or 0.01 [85W](#)

Session 2: Develop Multiplying Decimals Less Than 1

1. Multiply decimals less than one using grids [R9T](#)

Session 3: Develop Multiplying with Decimals Greater Than 1

1. Multiply decimals using grids [66Z](#)

2. Multiply decimals using area models [RH8](#)

3. Multiply two decimals: products up to hundredths [FLL](#)

4. Multiply two decimals: products up to thousandths [TDG](#)

Also consider

- Multiply two decimals: where does the decimal point go? [6FA](#)

Session 4: Refine Multiplying Decimals

Lesson 17: Divide Decimals

Session 1: Explore Dividing Decimals

1. Divide by 0.1 or 0.01 WD7

Session 2: Develop Dividing a Decimal by a Whole Number

1. Divide decimals by whole numbers without adding zeros XDZ

Also consider

- Divide decimals using area models: complete the equation U6C
- Divide decimals using blocks: complete the equation DDK

Session 3: Develop Dividing by Tenths

1. Divide by decimals without adding zeros RTS
2. Divide by decimals 8FT

Session 4: Develop Dividing by Hundredths**Session 5:** Refine Dividing Decimals**Lesson 18:** Fractions as Division**Session 1:** Explore Fractions as Division

1. Relate division and fractions D86

Also consider

- Fractions of a whole: word problems 2VP

Session 2: Develop Fractions as Division

1. Understand fractions as division: word problems CTD

Session 3: Refine Fractions as Division**Lesson 19:** Understand Multiplication by a Fraction**Session 1:** Explore Multiplication by a Fraction

1. Multiply two fractions using models UAY
2. Multiply two fractions 8KV
3. Multiply two unit fractions using models HDJ

Session 2: Develop Understanding of Multiplication by a Fraction*Also consider*

- Multiply fractions by whole numbers: choose the model NKU

Session 3: Refine Ideas About Multiplying by a Fraction

1. Complete the fraction multiplication sentence I S6G
2. Complete the fraction multiplication sentence II BUZ

Lesson 20: Multiply Fractions to Find Area

Session 1: Explore Multiplying Fractions to Find Area

1. Understand fraction multiplication and area NFK
2. Multiply fractions to find area SEZ

Session 2: Develop Multiplying Unit Fractions to Find Area

Session 3: Develop Tiling a Rectangle to Find Area

1. Area of rectangles with fractions 64E

Session 4: Refine Multiplying Fractions to Find Area

Lesson 21: Understand Multiplication as Scaling

Session 1: Explore Multiplication as Scaling

1. Scaling whole numbers by fractions: justify your answer Q7M

Session 2: Develop Understanding of Multiplication as Scaling

2. Scaling whole numbers by fractions QH2
3. Scaling fractions by fractions 9RF

Session 3: Refine Ideas About Multiplication as Scaling

Lesson 22: Multiply Fractions in Word Problems

Session 1: Explore Multiplying Fractions in Word Problems

1. Multiply two fractions: word problems 38Y

Session 2: Develop Multiplying Fractions in Word Problems

Session 3: Develop Multiplying with Mixed Numbers in Word Problems

1. Multiply with mixed numbers using area models WVR

Also consider

- Multiply a mixed number by a whole number using a model I ZJ7
- Multiply a mixed number by a whole number using a model II FWN
- Multiply mixed numbers, fractions, and whole numbers XSE

Session 4: Refine Multiplying Fractions in Word Problems

1. Multiplication with mixed numbers: word problems 5W6

- Area of rectangles with fractions and mixed numbers PMV

Also consider

- Multiply fractions and mixed numbers in recipes QHN

Lesson 23: Understand Division with Unit Fractions

Session 1: Explore Division with Unit Fractions

- Divide unit fractions by whole numbers using models XML
- Divide whole numbers by unit fractions using models VDU

Session 2: Develop Understanding of Division with Unit Fractions

- Divide unit fractions by whole numbers using area models YBE
- Divide whole numbers by unit fractions using area models JYS
- Divide unit fractions and whole numbers using number lines BF7

Session 3: Refine Ideas About Division with Unit Fractions

- Divide unit fractions by whole numbers GXY
- Divide whole numbers by unit fractions 3L9
- Divide unit fractions and whole numbers SPB

Lesson 24: Divide Unit Fractions in Word Problems

Session 1: Explore Dividing Unit Fractions in Word Problems

- Divide unit fractions and whole numbers using area models A7W

Session 2: Develop Dividing a Unit Fraction by a Whole Number

- Divide unit fractions and whole numbers: word problems G2N

Session 3: Develop Dividing a Whole Number by a Unit Fraction

Session 4: Refine Dividing Unit Fractions in Word Problems

Unit 4

Measurement, Data, and Geometry: Converting Units, Using Data, and Classifying Figures

| Textbook section | IXL skills |
|---|---|
| Lesson 25: Convert Measurement Units | |
| Session 1: Explore Converting Measurement Units | 1. Conversion tables - customary units 7HU <i>Also consider</i> <ul style="list-style-type: none"> Conversion tables - metric units 7QS |
| Session 2: Develop Converting Larger Units to Smaller Units | 1. Convert to smaller customary units of length, weight, and volume 5UP 2. Convert to smaller metric units of length, mass, and capacity PNH |
| Session 3: Develop Converting Smaller Units to Larger Units | 1. Convert to larger customary units of length, weight, and volume RUA 2. Convert to larger metric units of length, mass, and capacity RMQ |
| Session 4: Refine Converting Measurement Units | 1. Add and subtract mixed customary units DJC 2. Add and subtract metric mixed units 6LL <i>Also consider</i> <ul style="list-style-type: none"> Convert customary units involving fractions WCM |
| Lesson 26: Solve Word Problems Involving Conversions | |
| Session 1: Explore Solving Word Problems Involving Conversions | |
| Session 2: Develop Solving Multi-Step Word Problems with Conversions | 1. Multi-step problems with metric unit conversions X5T 2. Multi-step problems with customary unit conversions 46H |

Session 3: Develop Choosing a Unit to Solve a Word Problem

Session 4: Refine Solving Word Problems Involving Conversions

1. Multi-step problems with customary or metric unit conversions ST6

Lesson 27: Make Line Plots and Interpret Data

Session 1: Explore Making Line Plots and Interpreting Data

1. Create line plots with fractions ZBV

Session 2: Develop Making a Line Plot

Session 3: Develop Solving Problems Using Data in a Line Plot

1. Create and interpret line plots with fractions XBS

Session 4: Refine Making Line Plots and Interpreting Data

1. Interpret line plots with fractions: multi-step problems Q2L

Lesson 28: Understand Categories of Two-Dimensional Figures

Session 1: Explore Categories of Two-Dimensional Figures

1. Parallel sides in quadrilaterals AJV
2. Identify parallelograms AJB
3. Identify rectangles XAE
4. Identify rhombuses C66

Also consider

- Properties of polygons TQU

Session 2: Develop Categories of Two-Dimensional Figures

1. Scalene, isosceles, and equilateral triangles R94
2. Identify the relationships between quadrilaterals KCG

Session 3: Refine Ideas About Categories of Two-Dimensional Figures

Lesson 29: Classify Two-Dimensional Figures

Session 1: Explore Classifying Two-Dimensional Figures

1. Sort polygons into Venn diagrams US8
2. Describe relationships among quadrilaterals SZT

Session 2: Develop Classifying Two-Dimensional

Figures

Session 3: Develop Classifying Two-Dimensional Figures with Tree Diagrams

1. Acute, obtuse, and right triangles N77
 2. Classify triangles C64
-

Session 4: Refine Classifying Two-Dimensional Figures

1. Classify quadrilaterals 6ZQ
-

Unit 5

Algebraic Thinking and the Coordinate Plane: Expressions, Graphing Points, Patterns and Relationships

| Textbook section | IXL skills |
|---|--|
| Lesson 30: Evaluate, Write, and Interpret Expressions | |
| Session 1: Explore Evaluating, Writing, and Interpreting Expressions | 1. Multi-step word problems Z76 |
| Session 2: Develop Evaluating Expressions | 1. Evaluate numerical expressions with parentheses HGW 2. Identify mistakes involving the order of operations JLJ |
| Session 3: Develop Writing and Interpreting Expressions | 1. Write numerical expressions: two operations 8ME |
| Session 4: Refine Evaluating, Writing, and Interpreting Expressions | 1. Evaluate numerical expressions with parentheses in different places 9F5 2. Write numerical expressions for word problems NF5 3. Use numerical expressions to solve multi-step word problems RLE <i>Also consider</i> <ul style="list-style-type: none"> Comparison statements with numerical expressions Q63 Numerical operations: find the missing sign 8TJ |
| Lesson 31: Understand the Coordinate Plane | |
| Session 1: Explore the Coordinate Plane | 1. Describe the coordinate plane PF8 |
| Session 2: Develop Understanding of the Coordinate Plane | 1. Objects on a coordinate plane NTR 2. Graph points from a table HWV |
| Session 3: Refine Ideas About the Coordinate Plane | |

Lesson 32: Represent Problems in the Coordinate Plane

Session 1: Explore Representing Problems in the Coordinate Plane

1. Graph triangles and quadrilaterals 5ZC

Session 2: Develop Graphing Points and Finding Distances

1. Coordinate planes as maps ZBD
2. Follow directions on a coordinate plane XQR

Session 3: Develop Representing Relationships Between Quantities

1. Graph points on a coordinate plane AST

Also consider

- Use a rule to complete a table and a graph N9B

Session 4: Refine Representing Problems in the Coordinate Plane

1. Analyze graphed relationships SMY

Lesson 33: Analyze Patterns and Relationships

Session 1: Explore Analyzing Patterns and Relationships

1. Use a rule to complete a number pattern RPP

Session 2: Develop Comparing Two Numerical Patterns

1. Compare patterns XPM

Session 3: Develop Using a Graph to Compare Patterns

1. Complete a table from a graph 2WL

Session 4: Refine Analyzing Patterns and Relationships