



IXL Skill Alignment

4th grade alignment for Everyday Mathematics Fourth Edition



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Unit 1

Place Value; Multidigit Addition and Subtraction

Textbook section	IXL skills
1-1: Place Value in Whole Numbers	1. Value of a digit YAV 2. Relationship between place values KFD 3. Naming numbers up to one million 6QE <i>Also consider</i> <ul style="list-style-type: none"> Identify place value names Y7Q
1-2: Place-Value Concepts	1. Compare numbers up to one million 6Y2 2. Order numbers up to one million 94E
1-3: Formal Procedures for Rounding	1. Rounding: up to hundred thousands place QV7 2. Rounding input/output tables CT2 <i>Also consider</i> <ul style="list-style-type: none"> Rounding puzzles XVJ
1-4: Introduction to the Student Reference Book	
1-5: Estimation Strategies	1. Estimate sums: word problems RJX <i>Also consider</i> <ul style="list-style-type: none"> Estimate sums VMD
1-6: Guide to Solving Number Stories	1. Estimate sums and differences: word problems PRJ 2. Two-step addition and subtraction word problems KFX
1-7: U.S. Traditional Addition	1. Add two numbers RGE 2. Add two numbers: fill in the missing digits HZG
1-8: Open Response and Reengagement Lesson: Cracking the Muffin Code	1. Place value review B5N 2. Place value word problems Z47

1-9: U.S. Traditional Subtraction

1. Subtract two numbers 9H6
2. Addition and subtraction word problems 63R

Also consider

- Subtraction: fill in the missing digits BFM

1-10: U.S. Customary Units of Length

1. Compare and convert customary units of length WFH

1-11: Points, Line Segments, Lines, Rays

1. Points, lines, line segments, rays, and angles 9MK

Also consider

- Parallel, perpendicular, and intersecting lines JL7

1-12: Angles, Triangles, and Quadrilaterals

1. Acute, right, and obtuse angles W6Z

1-13: Measuring Perimeters of Squares and Rectangles

1. Find the perimeter of rectangles using formulas KGJ
2. Perimeter: word problems GBE

Unit 2

Multiplication and Geometry

Textbook section	IXL skills
2-1: Square Number Patterns	<ol style="list-style-type: none"> 1. Write multiplication equations for arrays 2KB 2. Square numbers ANS
2-2: Area Formulas for Rectangles	<ol style="list-style-type: none"> 1. Area of rectangles: side lengths up to 10 H7L 2. Area: word problems K9Y <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Create rectangles with a given area BMV
2-3: Factors and Factor Pairs	<ol style="list-style-type: none"> 1. Find all the factor pairs of a number URL 2. Identify factors 2S9
2-4: Multiples	<ol style="list-style-type: none"> 1. Choose the multiples of a given number up to 10 EFB
2-5: Prime and Composite Numbers	<ol style="list-style-type: none"> 1. Prime and composite: up to 100 L9R
2-6: Open Response and Reengagement: Little and Big	<ol style="list-style-type: none"> 1. Input/output tables: find the rule YEK
2-7: Units of Time	<ol style="list-style-type: none"> 1. Convert time units PS8 2. Add and subtract mixed time units W2H
2-8: Multiplicative Comparisons	<ol style="list-style-type: none"> 1. Compare numbers using multiplication GGE
2-9: Multiplicative Comparison Number Stories	<ol style="list-style-type: none"> 1. Compare numbers using multiplication: word problems QKB <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Comparison word problems: addition or multiplication? YCW
2-10: Classifying Triangles	<ol style="list-style-type: none"> 1. Classify triangles: acute, obtuse, and right T7B

2-11: Classifying Quadrilaterals

1. Classify quadrilaterals A6V
2. Pick all the names for a quadrilateral 6CT

Also consider

- Describe relationships among quadrilaterals C98
-

2-12: Finding Line Symmetry

1. Identify lines of symmetry 9FD
 2. Draw lines of symmetry SQF
 3. Count lines of symmetry MWS
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2-13: Finding the Pattern

1. Complete the input/output tables DCC
2. Use a rule to complete a number pattern 5P2
3. What is true about the given pattern? C9H

Also consider

- What is true about the pattern made by the rule? 35J
-

Unit 3

Fractions and Decimals

Textbook section	IXL skills
3-1: Equal Sharing and Equivalence	1. Fractions of a whole: word problems XSB <i>Also consider</i> <ul style="list-style-type: none"> Understand fractions as division: word problems EWD
3-2: Fraction Circles and Equivalence	1. Find equivalent fractions using circle area models HG7
3-3: Number Lines and Equivalence	1. Identify fractions on number lines SKF 2. Find equivalent fractions using number lines P5S
3-4: An Equivalent Fractions Rule	1. Equivalent fractions: find the missing numerator or denominator 7CY 2. Identify the equivalent fraction 82N <i>Also consider</i> <ul style="list-style-type: none"> Graph equivalent fractions on number lines WQL
3-5: Veggie Pizzas	1. Benchmark fractions LUS 2. Compare fractions using models 7XF
3-6: Comparing Fractions	1. Compare fractions 99U <i>Also consider</i> <ul style="list-style-type: none"> Compare fractions using benchmarks EHJ Compare fractions: find the missing numerator or denominator KPU
3-7: Comparing and Ordering Fractions	1. Graph and order fractions on number lines 7GK 2. Order fractions MSB <i>Also consider</i> <ul style="list-style-type: none"> Find smaller or larger fractions PDJ

3-8: Modeling Tenths with Fraction Circles

1. Understanding tenths expressed in words 2L4
2. Model tenths FK7
3. Graph tenths on a number line 7B2

Also consider

- Convert tenths: fractions and decimals AUV

3-9: Modeling Decimals with Base-10 Blocks

1. What decimal number is illustrated? ZY9
2. Model hundredths B5C

Also consider

- Convert hundredths: fractions and decimals PK8

3-10: Tenths and Hundredths

1. Understanding hundredths expressed in words VAD
2. Place value models for decimal numbers 52Y

Also consider

- Relate decimals and money NSC

3-11: Tenths and Hundredths of a Meter

1. Convert between centimeters and meters: decimals BZ7

Also consider

- Conversion tables: metric units of length 73K
- Compare metric units of length WMR

3-12: Tenths of a Centimeter

1. Convert between millimeters and centimeters: decimals X6V

3-13: Comparing Decimals

1. Compare decimals using models CV7
2. Compare decimals on number lines T2W
3. Compare decimals I SWT

Also consider

- Compare decimals II CMS

Unit 4

Multidigit Multiplication

Textbook section	IXL skills
4-1: Extended Multiplication Facts	<ol style="list-style-type: none"> 1. Multiply by 10 or 100 M2N 2. Multiplication patterns over increasing place values Y5K 3. Multiply numbers ending in zeroes 7NS <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply by numbers ending in zeroes: find the missing number CZX
4-2: Making Reasonable Estimates for Products	<ol style="list-style-type: none"> 1. Estimate products 9UQ 2. Estimate products word problems: identify reasonable answers KLA 3. Estimate products: word problems WGL
4-3: Partitioning Rectangles	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by teen numbers using grids 8UH 2. Multiply 1-digit numbers by 2-digit numbers using area models I VCM 3. Multiply 1-digit numbers by 2-digit numbers using area models II HZX
4-4: Converting Liquid Measures	<ol style="list-style-type: none"> 1. Convert and compare milliliters and liters R7S
4-5: Open Response and Reengagement: Walking Away with a Million Dollars	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by 3-digit or 4-digit numbers using area models I RP9 2. Multiply 1-digit numbers by 3-digit or 4-digit numbers using area models II WKL 3. Multiply numbers ending in zeroes: word problems K98
4-6: Introducing Partial-Products Multiplication	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by multi-digit numbers using partial products 23C <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply 1-digit numbers by 3-digit or 4-digit numbers PPM

4-7: Metric Units of Mass

1. Convert and compare kilograms and grams 2Q4

4-8: Money Number Stories

1. Multiply money amounts FPH
2. Multiply money amounts: word problems TVA

4-9: Partial-Products Multiplication

1. Multiply 2-digit numbers by 2-digit numbers using area models I ASZ
2. Multiply 2-digit numbers by 2-digit numbers using area models II 8K7
3. Multiply 2-digit numbers by 2-digit numbers using partial products XLZ

Also consider

- Multiply a 2-digit number by a 2-digit number: word problems GZG

4-10: Multiplication Wrestling

1. Multiply using the distributive property with addition VE8
2. Multiply 1-digit numbers by 3-digit or 4-digit numbers using expanded form SEG

Also consider

- Multiply a 2-digit number by a 2-digit number MLC

4-11: Area Models for Rectangles and Rectilinear Figures

1. Area of rectangles: side lengths up to 100 3U2
2. Area of complex figures (with all right angles) 38W

Also consider

- Area between two rectangles GY2

4-12: Multistep Multiplication Number Stories

1. Multiply three or four numbers: word problems Q6K

4-13: Lattice Multiplication

1. Lattice multiplication LBW

Unit 5

Fraction and Mixed-Number Computation; Measurement

Textbook section	IXL skills
5-1: Fraction Decomposition	<ol style="list-style-type: none"> 1. Decompose fractions into unit fractions XHG 2. Decompose fractions N2Z 3. Decompose fractions multiple ways UEW
5-2: The Whole for Fractions	
5-3: Adding Fractions	<ol style="list-style-type: none"> 1. Add fractions with like denominators PDU 2. Add 3 or more fractions with like denominators LNE <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add fractions with like denominators using area models Y5W • Add fractions with like denominators using number lines 6QH
5-4: Adding Mixed Numbers	<ol style="list-style-type: none"> 1. Add mixed numbers AXT
5-5: Adding Tenths and Hundredths	<ol style="list-style-type: none"> 1. Add fractions: denominators 10 and 100 9RJ 2. Identify fraction expressions with a particular sum: denominators of 10 and 100 TZH
5-6: Queen Arlene's Dilemma	
5-7: Subtracting Fractions	<ol style="list-style-type: none"> 1. Subtract fractions with like denominators AVF 2. Add and subtract fractions with like denominators: word problems XBR <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract fractions with like denominators using area models P99 • Subtract fractions with like denominators using number lines MJX

5-8: Subtracting Mixed Numbers

1. Subtract mixed numbers SLQ
2. Add and subtract mixed numbers with like denominators: word problems 6KM

5-9: Line Plots: Fractional Units

1. Create and interpret line plots with fractions QQB

5-10: Rotations and Iterating Angles

1. Fractions of a turn WNG

5-11: Unit Iteration for Angles

1. Acute, right, obtuse, and straight angles R5K
2. Estimate angle measurements LUJ

5-12: Creating Symmetric Figures

1. Symmetry review 5FG

5-13: More Multistep Multiplication Number Stories

Unit 6

Division; Angles

Textbook section	IXL skills
6-1: Extended Division Facts	<ol style="list-style-type: none"> 1. Division patterns over increasing place values: up to thousands 7FH 2. Divide numbers ending in zeroes by 1-digit numbers 6T2
6-2: Area: Finding Missing Side Lengths	<ol style="list-style-type: none"> 1. Find the missing side length of a rectangle UPZ
6-3: Strategies for Division	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers: word problems 9FT
6-4: Partial-Quotients Division, Part 1	<ol style="list-style-type: none"> 1. Divide using partial quotients 83C <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Divide 2-digit numbers by 1-digit numbers: pick the better estimate S5W • Divide 2-digit numbers by 1-digit numbers using area models 7LG
6-5: Fruit Baskets	<ol style="list-style-type: none"> 1. One-step word problems involving remainders PYQ 2. Multi-step word problems involving remainders SLS
6-6: Customary Units of Weight	<ol style="list-style-type: none"> 1. Convert customary units of weight L7G 2. Conversion tables: customary units of weight SVP
6-7: Partial-Quotients Division, Part 2	<ol style="list-style-type: none"> 1. Divide using partial quotients with remainders EGL <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Divide by 1-digit numbers: pick the better estimate 2FS • Divide larger numbers by 1-digit numbers: interpret remainders J8D • Divide 3-digit numbers by 1-digit numbers using area models 6UL

6-8: Expressing and Interpreting Remainders

1. Divide by 1-digit numbers: interpret remainders E8K

6-9: Measuring Angles

1. Measure angles on a circle RK8

6-10: Using a Half-Circle Protractor

1. Measure angles with a protractor NCN
2. Draw angles with a protractor R9K

6-11: Angle Measures as Additive

1. Complementary and supplementary angles: find the missing measure BBB

6-12: Number Stories with Fractions and Mixed Numbers

1. Add and subtract fractions with like denominators: word problems XBR
2. Add and subtract fractions and mixed numbers with like denominators: word problems KCJ

6-13: Extending Understandings of Whole-Number Multiplication

1. Multiply fractions by whole numbers: word problems LX8

Also consider

- Multiply fractions by whole numbers using number lines Q7B

Unit 7

Multiplication of a Fraction by a Whole Number; Measurement

Textbook section	IXL skills
7-1: Converting Liquid Measures: U.S. Customary Units	<ol style="list-style-type: none"> 1. Convert customary units of capacity ZCR 2. Conversion tables: customary units of capacity WND 3. Compare customary units of capacity JNF
7-2: Exploring Fraction Multiplication Situations	<ol style="list-style-type: none"> 1. Multiply fractions by whole numbers in recipes 5HJ
7-3: A Fraction as a Multiple of a Unit Fraction	<ol style="list-style-type: none"> 1. Multiply unit fractions by whole numbers using models 8J3 2. Multiples of unit fractions: find the missing numbers VYG 3. Multiply unit fractions by whole numbers: word problems DSB <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply unit fractions by whole numbers using number lines XKJ • Multiply unit fractions by whole numbers EXQ
7-4: Multiplying Fractions by Whole Numbers	<ol style="list-style-type: none"> 1. Multiply fractions by whole numbers JLH <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply fractions by whole numbers using models Y5C • Multiply fractions by whole numbers using models: complete the equation CZ7
7-5: Multiplying Mixed Numbers by Whole Numbers	<ol style="list-style-type: none"> 1. Multiply mixed numbers by whole numbers M2K 2. Multiply mixed numbers by whole numbers: word problems SFV
7-6: Three-Fruit Salad	<ol style="list-style-type: none"> 1. Add 3 or more fractions with like and unlike denominators: word problems YLH
7-7: Multistep Division Number Stories	<ol style="list-style-type: none"> 1. Multi-step word problems I U58

7-8: Division Measurement Number Stories

1. Measurement word problems 2PY

7-9: Generating and Identifying Patterns

1. Find the next row in a growing pattern of shapes JZP
2. Complete an increasing number pattern QHB
3. Shape patterns NVV

Also consider

- Complete the table: word problems 8ZU

7-10: Solving Multistep Fraction Number Stories

1. Add, subtract, and multiply fractions 8QP

7-11: Weights of State Birds

1. Add, subtract, and multiply fractions: word problems W8H

Also consider

- Compare customary units using multiplication W7F

7-12: Decimal Number Stories

1. Multi-step word problems with money 9XT

7-13: Displaying Insect Data

1. Create and interpret line plots with fractions II 8LG

Also consider

- Measure using an inch ruler EDW

Unit 8

Fraction Operations; Applications

Textbook section	IXL skills
8-1: Extending Multistep Number Stories	1. Multi-step word problems II R8U
8-2: Real-Life Angle Measures as Additive	1. Find measures of complementary, supplementary, and adjacent angles Z2F <i>Also consider</i> • Missing angles in circles XTL
8-3: Pattern-Block Angles	1. Angle measures: word problems YUA
8-4: Extending Line Symmetry	1. Draw lines of symmetry XA9
8-5: Line Plots with $\frac{1}{2}$, $\frac{1}{4}$, and Inches	1. Create and interpret line plots with simplified fractions ESR
8-6: Fractions and Perimeter	1. Perimeter of rectangles with fractional side lengths 7W2
8-7: More Decimal Number Stories	1. Add and subtract decimals: word problems 6HP 2. Multiply decimals and whole numbers: word problems 74B
8-8: Areas of Rectangles with Fractional Side Lengths	1. Area of rectangles with fractional side lengths 6NY
8-9: More Fraction Multiplication Number Stories	1. Add, subtract, and multiply fractions: word problems II BSG
8-10: Fractions and Liquid Measures	1. Convert customary units involving fractions 8CD 2. Add, subtract, and multiply fractions in recipes Q5M
8-11: Fractions and Measurement	1. Measurement word problems with fractions UST
8-12: Applying Understandings of Place Value and Operations	1. Addition: fill in the missing digits K62 2. Subtraction: fill in the missing digits BFM

8-13: Many Names for Numbers

1. Choose numbers with a particular sum, difference, product, or quotient X9G
 2. Choose decimals with a particular sum or difference 8BU
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