



IXL Skill Alignment

3rd grade alignment for Everyday Mathematics Fourth Edition



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Unit 1

Math Tools, Time, and Multiplication

Textbook section	IXL skills
1-1: Number Grids	1. Compare numbers up to 100 using words AZL
1-2: Introducing the Student Reference Book	1. Subtract numbers up to two digits 9N9
1-3: Tools for Mathematics	1. Read clocks and write times: to the nearest 5 minutes 64G
1-4: Number Lines and Rounding	1. Round to the nearest ten or hundred using a number line 6ST 2. Round to the nearest ten or hundred Q65 3. Estimate sums: round to tens WBC
1-5: Time	1. Read clocks and write times 5ZQ 2. Match analog and digital clocks L5U
1-6: How Long is a Morning?	1. Find the elapsed time SCQ <i>Also consider</i> <ul style="list-style-type: none"> Find the end time U7B
1-7: Scaled Bar Graphs	1. Interpret tally charts 8CW 2. Create scaled bar graphs RPF
1-8: Multiplication Strategies	1. Count equal groups 9K7 2. Write multiplication sentences for arrays 5FZ <i>Also consider</i> <ul style="list-style-type: none"> Multiplication word problems with factors up to 5 HDU Identify multiplication expressions for equal groups 9AE Identify multiplication expressions for arrays HZL

1-9: Introducing Division

1. Write division sentences for groups FSX
2. Write division sentences for arrays 8RW

Also consider

- Division word problems: divisors and quotients up to 5 CFR
- Divide by counting equal groups UYK

1-10: Foundational Multiplication Facts

1. Skip-count LQM
2. Multiply 2 by numbers up to 10 94M
3. Multiply 5 by numbers up to 10 Y9E
4. Multiply 10 by numbers up to 10 6YD

1-11: The Length-of-Day Project

1. Find the end time: word problems 5VC
2. Find the elapsed time: word problems V9D

1-12: Exploring Mass, Equal Shares, and Equal Groups

1. Write multiplication sentences for equal groups V98

Also consider

- Make halves, thirds, and fourths HGP

1-13: Measuring Mass

1. Read a scale - metric units 66D
2. Which metric unit of mass is appropriate? PTF

Unit 2

Number Stories and Arrays

Textbook section	IXL skills
2-1: Extended Facts: Addition and Subtraction	<ol style="list-style-type: none"> 1. Addition patterns over increasing place values 5RG 2. Subtraction patterns over increasing place values VKD
2-2: Number Stories	<ol style="list-style-type: none"> 1. Addition and subtraction word problems: up to 100 V7P 2. Write addition or subtraction sentences for word problems XR7
2-3: More Number Stories	<ol style="list-style-type: none"> 1. Addition and subtraction word problems: up to three digits XSH
2-4: Multistep Number Stories, Part 1	<ol style="list-style-type: none"> 1. Two-step addition and subtraction word problems: up to 100 L96 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Two-step word problems: identify reasonable answers V5A
2-5: Multistep Number Stories, Part 2	<ol style="list-style-type: none"> 1. Two-step addition and subtraction word problems CBA
2-6: Equal Groups	<ol style="list-style-type: none"> 1. Multiplication word problems with factors up to 10 9TA 2. Multiply by 0 or 1 CNG <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply by 0 or 1: complete the sentence RBK
2-7: Multiplication Arrays	<ol style="list-style-type: none"> 1. Make arrays to model multiplication PPR 2. Use arrays to solve multiplication word problems UCY
2-8: Picturing Division	<ol style="list-style-type: none"> 1. Use equal groups to solve division word problems NEC 2. Make arrays to model division R8J

Also consider

- Relate multiplication and division for arrays XSK

2-9: Modeling Division

1. Division word problems involving remainders RE8

2-10: Playing Division Arrays

1. Pick the model that shows a division expression 7DD

2-11: Frames and Arrows

1. Use a rule to complete a number pattern 25S

Also consider

- Skip-counting sequences 5FD
- Skip-counting puzzles 78C

2-12: Exploring Fraction Circles, Liquid Volume, and Area

1. Match fraction words to models P6L
2. Select figures with a given area XR6

Unit 3

Operations

Textbook section	IXL skills
3-1: What's My Rule?	<ol style="list-style-type: none"> <li data-bbox="850 457 1487 520">1. Addition and subtraction input/output tables: find the rule BHW <p data-bbox="850 569 1032 600"><i>Also consider</i></p> <ul style="list-style-type: none"> <li data-bbox="850 611 1425 674">• Addition input/output tables: up to three digits MUE <li data-bbox="850 688 1471 751">• Subtraction input/output tables: up to three digits J9S
3-2: Estimating Costs	<ol style="list-style-type: none"> <li data-bbox="850 808 1511 835">1. Estimate sums using compatible numbers HRT <li data-bbox="850 856 1398 919">2. Estimate differences using compatible numbers PVS <li data-bbox="850 940 1520 1003">3. Estimate sums and differences by rounding: up to 1,000 MTL <li data-bbox="850 1024 1382 1087">4. Estimate sums and differences: word problems BU8
3-3: Partial-Sums Addition	<ol style="list-style-type: none"> <li data-bbox="850 1134 1390 1197">1. Use expanded form to add three-digit numbers RPC <p data-bbox="850 1245 1032 1276"><i>Also consider</i></p> <ul style="list-style-type: none"> <li data-bbox="850 1287 1482 1318">• Estimate sums by rounding: up to 1,000 3Y9
3-4: Column Addition	<ol style="list-style-type: none"> <li data-bbox="850 1371 1433 1434">1. Add two numbers up to three digits: with regrouping 9NH <p data-bbox="850 1482 1032 1514"><i>Also consider</i></p> <ul style="list-style-type: none"> <li data-bbox="850 1524 1482 1587">• Use models to add three-digit numbers: with regrouping NWW
3-5: Counting-Up Subtraction	<ol style="list-style-type: none"> <li data-bbox="850 1638 1425 1669">1. Subtract numbers up to three digits EHT <p data-bbox="850 1717 1032 1749"><i>Also consider</i></p> <ul style="list-style-type: none"> <li data-bbox="850 1759 1417 1822">• Estimate differences by rounding: up to 1,000 A47

3-6: Expand-and-Trade Subtraction

1. Subtract three-digit numbers: regroup tens and hundreds WR8

3-7: Exploring Bar Graphs, Area, and Partitioning Rectangles

1. Interpret scaled bar graphs V54
2. Tile a rectangle and find the area EKK

Also consider

- Use bar graphs to solve problems BCJ
- Create rectangles with a given area V73

3-8: Scaled Picture Graphs

1. Create scaled picture graphs AVG
2. Interpret scaled picture graphs Y5D

3-9: Exploring Multiplication Squares

1. Squares up to 10×10 GMM

3-10: The Commutative Property of Multiplication

1. Multiplication facts up to 10 PNV

3-11: Adding a Group

1. Multiply 3 by numbers up to 10 38K
2. Multiply 6 by numbers up to 10 SX6

Also consider

- Relate addition and multiplication P74

3-12: Subtracting a Group

1. Multiply 4 by numbers up to 10 5U6
2. Multiply 9 by numbers up to 10 SUH

Also consider

- Multiply by 5 and 10 G48

3-13: Equivalent Names

1. Write numbers in different ways WJ5

Unit 4

Measurement and Geometry

Textbook section	IXL skills
4-1: Measuring with a Ruler	<ol style="list-style-type: none"> 1. Measure using an inch ruler: nearest $\frac{1}{4}$ inch LC2 2. Measure using a centimeter ruler MPX
4-2: Application: Line Plots	<ol style="list-style-type: none"> 1. Create line plots H5J 2. Interpret line plots YXD
4-3: Exploring Measures of Distance and Comparisons of Mass	
4-4: Polygon Review	<ol style="list-style-type: none"> 1. Is it a polygon? C2P 2. Count and compare sides and vertices GWA 3. Parallel sides in quadrilaterals 6E9 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Open and closed shapes 9PS • Identify polygons: up to 8 sides EVR
4-5: Special Quadrilaterals	<ol style="list-style-type: none"> 1. Draw squares, rectangles, rhombuses, parallelograms, and trapezoids 5KS 2. Classify squares, rectangles, rhombuses, parallelograms, and trapezoids CNJ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify parallelograms V6L • Identify trapezoids 67A • Identify rectangles 47T • Identify rhombuses ZSD
4-6: Perimeter	<ol style="list-style-type: none"> 1. Perimeter of polygons LLY 2. Perimeter of rectangles ZJT 3. Perimeter: word problems CLD

4-7: Area and Perimeter

1. Find the area of figures made of unit squares FLQ

Also consider

- Area of figures on grids J93
- Perimeter of figures on grids VLG

4-8: Area and Composite Units

1. Find the area of rectangles and squares 8KJ

Also consider

- Find the area of rectangles: word problems 5HA

4-9: Number Sentences for Area of Rectangles

1. Use multiplication to find the area of a rectangle made of unit squares LC6

4-10: Playing the Area and Perimeter Game

1. Find the area or perimeter of rectangles and squares QYU

4-11: Building a Rabbit Pen

1. Compare area and perimeter of two figures PMF

Also consider

- Use area and perimeter to determine cost 8H8

4-12: Rectilinear Figures

1. Find the area of complex figures by dividing them into rectangles DVB
2. Find the area of complex figures SGP

Also consider

- Perimeter of rectilinear shapes 65Z

Unit 5

Fractions and Multiplication Strategies

Textbook section	IXL skills
5-1: Exploring Equal Parts, Fractions of Different Wholes, and Area	<ol style="list-style-type: none"> 1. Identify equal parts FHY 2. Make halves, thirds, fourths, sixths, and eighths JHE 3. Select two figures with the same area 7GW <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Match fractions to models: halves, thirds, and fourths Y55
5-2: Representing Fractions	<ol style="list-style-type: none"> 1. Match fractions to models YHL 2. Show fractions: area models NLE 3. Decompose fractions into unit fractions using models P75 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Understand fractions: area models RTW • Match unit fractions to models CPK
5-3: Equivalent Fractions	<ol style="list-style-type: none"> 1. Find equivalent fractions using area models: two models ZJ2
5-4: Recognizing Helper Facts	<ol style="list-style-type: none"> 1. Multiply by 3, 4, 6, and 9 9DK
5-5: Multiplication Facts Strategies: Doubling, Part 1	<ol style="list-style-type: none"> 1. Multiply 8 by numbers up to 10 SMR <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add doubles NLQ
5-6: Multiplication Facts Strategies: Doubling, Part 2	<ol style="list-style-type: none"> 1. Multiply by 2, 4, 6, 8 and 10 FKS 2. Divide by 2: quotients up to 10 ANU <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Create bar graphs: multi-digit numbers WYL • Interpret bar graphs: multi-digit numbers UP6

5-7: Patterns in Products

1. Identify multiplication patterns in tables CK9
2. Even or odd: multiplication patterns WS2

Also consider

- Even or odd U9Q
- Convert between hours and fractions of hours YRP
- Multiplication input/output tables 8CM

5-8: Finding Missing Factors

1. Multiplication facts up to 10: find the missing factor FZA

Also consider

- Multiplication facts up to 10: select the missing factors WZA
- Multiplication word problems with factors up to 10: find the missing number F6C

5-9: Multiplication Facts Strategies: Near Squares

1. Multiplication facts for 2, 3, 4, 5, and 10 DW5
2. Multiplication facts for 6, 7, 8, and 9 XT7

5-10: Button Dolls: Solving a Number Story

1. Two-step multiplication and division word problems 8FP

5-11: Multiplication Facts Strategies: Break-Apart Strategy

1. Multiply one-digit numbers using grids HXY
2. Multiply using the distributive property 6W7

Also consider

- Multiply 7 by numbers up to 10 9PT
- Distributive property: find the missing factor 7VP

Unit 6

More Operations

Textbook section	IXL skills
6-1: Trade-First Subtraction	<ol style="list-style-type: none"> 1. Subtract numbers up to three digits: with regrouping UPT 2. Estimate differences: up to three digits 42M
6-2: Playing Baseball Multiplication	<ol style="list-style-type: none"> 1. Multiplication facts up to 10: sorting SUJ
6-3: Taking Inventory of Known Facts Strategies	<ol style="list-style-type: none"> 1. Multiplication facts for 6, 7, 8, and 9: true or false? EEY <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply 11 by numbers up to 12 AZJ
6-4: Fact Power and Beat the Calculator	<ol style="list-style-type: none"> 1. Multiplication facts up to 10: true or false? 3K8
6-5: Exploring Geometry Problems, Measurement Data, and Polygons	<ol style="list-style-type: none"> 1. Draw quadrilaterals II 88B 2. Create line plots with halves 6RC <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Sort shapes into a Venn diagram 9L6
6-6: Multiplication and Division Diagrams	<ol style="list-style-type: none"> 1. Relate multiplication and division 67L 2. Write equations with unknown numbers to represent word problems: multiplication and division only ZNN <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiplication and division word problems 85K
6-7: Multiplication with Larger Factors	<ol style="list-style-type: none"> 1. Multiplication facts to 12 TK7 2. Multiply one-digit numbers by teen numbers using grids 8XQ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply 12 by numbers up to 12 8NV

6-8: Number Sentences with Parentheses

1. Understanding parentheses AYY

6-9: Writing Number Stories

1. Two-step mixed operation word problems SRL

6-10: Order of Operations

1. Perform multiple operations with whole numbers UKB

6-11: Number Models for Two-Step Number Stories

1. Write equations with unknown numbers to represent word problems U6P

Also consider

- Multiplication facts up to 12: true or false? YSY

Unit 7

Fractions

Textbook section	IXL skills
7-1: Liquid Volume	<ol style="list-style-type: none"> Which metric unit of volume is appropriate? LYS
7-2: Exploring Arrays, Volume, and Equal Shares	<ol style="list-style-type: none"> Estimate the number of objects to the nearest ten A9J Find equivalent fractions using area models: one model 6DY
7-3: Number Stories with Measures	<ol style="list-style-type: none"> Measurement word problems VPW <p><i>Also consider</i></p> <ul style="list-style-type: none"> Choose the appropriate measuring tool FTA
7-4: Fraction Strips	<ol style="list-style-type: none"> Show fractions: fraction bars ZPW Compare fractions with like denominators using models TDE Compare fractions with like numerators using models RGM <p><i>Also consider</i></p> <ul style="list-style-type: none"> Find equivalent fractions using fraction strips LXP Understand fractions: fraction bars 6JL
7-5: Fractions on a Number Line, Part 1	<ol style="list-style-type: none"> Identify fractions on number lines AWH Identify equivalent fractions on number lines HYM <p><i>Also consider</i></p> <ul style="list-style-type: none"> Graph unit fractions on number lines CBW Identify unit fractions on number lines JVC Identify equivalent fractions 7DA
7-6: Fractions on a Number Line, Part 2	<ol style="list-style-type: none"> Graph fractions on number lines 7QM Graph fractions equivalent to 1 on number lines 7BL

7-7: Comparing Fractions*Also consider*

- Select fractions equivalent to whole numbers using models GKZ

1. Graph and compare fractions on number lines 6H5

2. Compare fractions using benchmarks D8B

Also consider

- Graph smaller or larger fractions on a number line 2PH
- Compare fractions using number lines 38T

7-8: Finding Rules for Comparing Fractions

1. Order fractions with like numerators PCW

2. Benchmark fractions EEU

Also consider

- Order fractions with like denominators HYZ

7-9: Locating Fractions on Number Lines

1. Fractions of number lines PYB

2. Find equivalent fractions using number lines JL8

7-10: Justifying Fraction Comparisons

1. Compare fractions 78D

2. Compare fractions and justify your answer QB7

3. Find equivalent fractions WMX

Also consider

- Graph equivalent fractions on number lines WPQ

7-11: Fractions in Number Stories

1. Fractions of a whole: word problems BV7

Also consider

- Fractions of a whole: modeling word problems 9PU
- Compare fractions in recipes 9BK

7-12: Fractions of Collections

1. Fractions of a group: word problems Z65

Also consider

- Fractions of a group 8H3
- Fractions of a number: word problems 9HF

Unit 8

Multiplication and Division

Textbook section	IXL skills
8-1: Measuring to the Nearest 1/4 Inch	<ol style="list-style-type: none"> 1. Measure using an inch ruler: nearest 1/4 inch 5R3
8-2: Extended Facts: Multiplication and Division	<ol style="list-style-type: none"> 1. Multiplication patterns: multiples of 10 and 100 QGP 2. Division patterns over increasing place values: up to hundreds E95
8-3: Factors of Counting Numbers	<ol style="list-style-type: none"> 1. Multiplication facts up to 12: select the missing factors VTZ
8-4: Setting Up Chairs	<ol style="list-style-type: none"> 1. Make arrays to model multiplication: given products TY9 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Guess the number KEJ
8-5: Playing Factor Bingo	<ol style="list-style-type: none"> 1. Choose the multiples of a given number up to 10 DNT <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiplication facts up to 12: find the missing factor WB8 • Division facts up to 12: select the missing numbers SP9
8-6: Sharing Money	<ol style="list-style-type: none"> 1. Divide two-digit numbers by one-digit numbers: word problems C6T
8-7: Exploring Number Lines, Fractions, and Area	<ol style="list-style-type: none"> 1. Graph and order fractions on number lines T7E 2. Create rectangles with a given area V73 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply to find the area of a rectangle made of unit squares S7G
8-8: Solid Shapes	<ol style="list-style-type: none"> 1. Identify faces of three-dimensional shapes S8P 2. Count vertices, edges, and faces ZBU

Unit 9

Multidigit Operations

Textbook section	IXL skills
9-1: Playing Product Pile-Up	<ol style="list-style-type: none"> Multiplication facts for 6, 7, 8, and 9: sorting TZ7 Multiplication sentences up to 10: true or false? MTU
9-2: Multiply and Divide with Multiples of 10	<ol style="list-style-type: none"> Multiply by a multiple of ten using place value GPN Multiply by a multiple of ten MS6
9-3: Using Mental Math to Multiply	<ol style="list-style-type: none"> Multiply one-digit numbers by two-digit numbers 9PM <p><i>Also consider</i></p> <ul style="list-style-type: none"> Multiply using the distributive property 6W7
9-4: Exploring Elapsed Time, Squares, and Bridges	<ol style="list-style-type: none"> Reading schedules SWU Find the start time, the end time, or the elapsed time: word problems 9JB Make sixths and eighths KTM
9-5: Multidigit Multiplication	<ol style="list-style-type: none"> Multiply one-digit numbers by two-digit numbers using area models I V9Q Multiply one-digit numbers by two-digit numbers using area models II QXM
9-6: Packing Apples	<ol style="list-style-type: none"> Divide three-digit numbers: word problems 2AT Divide using repeated subtraction XK6
9-7: The Length-of-Day Project, Revisited	<ol style="list-style-type: none"> Time word problems FTT <p><i>Also consider</i></p> <ul style="list-style-type: none"> Interpret line graphs B66