



IXL Skill Alignment

4th Grade alignment for Math in Focus



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Chapter 1

Working with Whole Numbers

Textbook section	IXL skills
Lesson 1.1: Numbers to 100,000	<ol style="list-style-type: none"> Value of a digit: up to 100,000 PWJ Convert between standard and expanded form: up to 100,000 NPV Naming numbers up to 100,000 W6E <p><i>Also consider</i></p> <ul style="list-style-type: none"> Place value models 2Y7
Lesson 1.2: Numbers to 1,000,000	<ol style="list-style-type: none"> Value of a digit WLP Convert between standard and expanded form: up to 1,000,000 4R6 Naming numbers up to one million 6QE <p><i>Also consider</i></p> <ul style="list-style-type: none"> Identify place value names Y7Q Spell word names for numbers up to one million 2PZ Place value review B5N
Lesson 1.3: Comparing and Ordering Numbers	<ol style="list-style-type: none"> Compare numbers up to one million 6Y2 Order numbers up to one million 94E Use a rule to complete an addition or subtraction pattern DWF
Lesson 1.4: Adding and Subtracting Multi-Digit Numbers	<ol style="list-style-type: none"> Add numbers up to six digits 26W Subtract numbers up to six digits TSJ <p><i>Also consider</i></p> <ul style="list-style-type: none"> Add and subtract numbers up to six digits YUV Addition: find the missing digits ERL Subtraction: find the missing digits YPD
Lesson 1.5: Rounding and Estimating	<ol style="list-style-type: none"> Round using a number line VE2 Estimate sums and differences: round to hundreds or thousands L9A

3. Estimate sums and differences: word problems PRJ

Lesson 1.6: Real-World Problems: Addition and Subtraction

1. Addition and subtraction word problems ZD7

Also consider

- Multi-step addition and subtraction word problems CZM
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Chapter 2

Multiplication and Division

Textbook section	IXL skills
Lesson 2.1: Multiplying by a 1-Digit or 2-Digit Number	<ol style="list-style-type: none"> Multiply 1-digit numbers by 3-digit or 4-digit numbers 5N2 Multiply by a multiple of ten CSD Multiply 2-digit numbers by 2-digit or 3-digit numbers U8V Estimate products 9UQ <p><i>Also consider</i></p> <ul style="list-style-type: none"> Multiply a 2-digit number by a 2-digit number: complete the missing steps XQ8 Estimate products word problems: identify reasonable answers KLA
Lesson 2.2: Quotient and Remainder	<ol style="list-style-type: none"> Divide 2-digit numbers by 1-digit numbers: quotients up to 10 7BS <p><i>Also consider</i></p> <ul style="list-style-type: none"> Divide 2-digit numbers by 1-digit numbers using arrays M49
Lesson 2.3: Dividing by a 1-Digit Number	<ol style="list-style-type: none"> Divide using area models ZLN Divide larger numbers by 1-digit numbers GE8 Estimate quotients MPG <p><i>Also consider</i></p> <ul style="list-style-type: none"> Divide numbers ending in zeroes by 1-digit numbers 2K3 Divide by 1-digit numbers: pick the better estimate 2FS
Lesson 2.4: Real-World Problems: Multiplication and Division	<ol style="list-style-type: none"> Multiplication word problems BM5 Divide larger numbers by 1-digit numbers: interpret quotients and remainders SVK <p><i>Also consider</i></p> <ul style="list-style-type: none"> Compare numbers using multiplication: word problems QKB

Lesson 2.5: Factors

1. Identify factors 2S9
2. Find all the factor pairs of a number URL
3. Prime and composite: up to 100 L9R

Also consider

- Greatest common factor PMW
- Multiplication facts up to 10: find the missing factor NLU
- Which number is prime or composite? C6S

Lesson 2.6: Multiples

1. Choose the multiples of a given number up to 10 EFB
2. Least common multiple CVK

Lesson 2.7: Real-World Problems: The Four Operations

1. Multi-step word problems with strip diagrams CZQ
2. Multi-step word problems EA9
3. Multi-step word problems involving remainders SLS

Also consider

- Write variable equations to represent word problems 5SJ
- Use strip diagrams to represent and solve multi-step word problems G8Z

Chapter 3

Fractions and Mixed Numbers

Textbook section	IXL skills
Lesson 3.1: Equivalent Fractions	<ol style="list-style-type: none"> 1. Find equivalent fractions using area models HYC 2. Equivalent fractions: find the missing numerator or denominator 7CY 3. Write fractions in lowest terms 3R5 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify equivalent fractions GSG • Patterns of equivalent fractions 7LH
Lesson 3.2: Comparing and Ordering Fractions	<ol style="list-style-type: none"> 1. Compare fractions 99U 2. Order fractions MSB 3. Compare fractions using one-half as a benchmark WJL <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Compare fractions using models 7XF • Graph and order fractions on number lines 7GK
Lesson 3.3: Adding and Subtracting Like Fractions	<ol style="list-style-type: none"> 1. Add fractions with like denominators using area models Y5W 2. Subtract fractions with like denominators using area models P99 3. Add and subtract fractions with like denominators C82
Lesson 3.4: Mixed Numbers	<ol style="list-style-type: none"> 1. Mixed number review T5V
Lesson 3.5: Improper Fractions	<ol style="list-style-type: none"> 1. Convert mixed numbers to improper fractions YMB
Lesson 3.6: Renaming Improper Fractions and Mixed Numbers	<ol style="list-style-type: none"> 1. Convert improper fractions to mixed numbers 93W
Lesson 3.7: Adding and Subtracting Mixed Numbers	<ol style="list-style-type: none"> 1. Add and subtract mixed numbers with like denominators 38A

Lesson 3.8: Multiplying Fractions and Whole Numbers

1. Multiply fractions by whole numbers using models: complete the equation CZ7
2. Multiply fractions by whole numbers 5JD

Also consider

- Multiply fractions by whole numbers using models Y5C
- Multiples of fractions: find the missing numbers RSY

Lesson 3.9: Real-World Problems: Fractions

1. Add and subtract mixed numbers with like denominators: word problems UUL
2. Multiply fractions by whole numbers: word problems VVT
3. Create and interpret line plots with fractions QQB

Also consider

- Add and subtract fractions with like denominators: word problems ZBA
- Add and subtract fractions with like denominators in recipes CYV

Chapter 4

Decimals

Textbook section

IXL skills

Lesson 4.1: Understanding Tenths

1. Convert fractions and mixed numbers to decimals: denominators of 10 HTE
2. Understanding tenths expressed in words 2L4

Also consider

- Model decimals and fractions: tenths K8P

Lesson 4.2: Understanding Hundredths

1. Convert fractions and mixed numbers to decimals: denominators of 100 A2U
2. What decimal number is illustrated? B7E
3. Graph decimals on number lines N93

Also consider

- Value of a digit in a decimal number W68
- Relate decimals and money NSC
- Expanded form for decimals 5BM
- Understanding decimals expressed in words LUL

Lesson 4.3: Comparing and Ordering Decimals

1. Compare decimals I SWT
2. Put decimal numbers in order 4M5
3. Number sequences involving decimals EZW

Also consider

- Compare decimals on number lines T2W
- Compare decimals using models CV7
- Compare decimals II CMS

Lesson 4.4: Rounding Decimals

1. Round decimals XFX

Also consider

- Round money amounts X9R

Lesson 4.5: Fractions and Decimals

1. Convert fractions and mixed numbers to decimals 29Z

2. Convert decimals to fractions and mixed numbers DBF

Also consider

- Add fractions: denominators 10 and 100 9RJ
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Chapter 5

Conversion of Measurements

Textbook section	IXL skills
Lesson 5.1: Length in Customary Units	<ol style="list-style-type: none"> 1. Which customary unit of length is appropriate? 6DM 2. Compare and convert customary units of length A89
Lesson 5.2: Weight and Volume in Customary Units	<ol style="list-style-type: none"> 1. Which customary unit of weight or volume is appropriate? TU8 2. Compare and convert customary units of weight or volume 5MW <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Conversion tables - customary units LSP
Lesson 5.3: Real-World Problems: Customary Units of Measure	<ol style="list-style-type: none"> 1. Measurement word problems: customary units 6FW
Lesson 5.4: Length in Metric Units	<ol style="list-style-type: none"> 1. Compare and convert metric units of length HXX
Lesson 5.5: Mass and Volume in Metric Units	<ol style="list-style-type: none"> 1. Compare and convert metric units of mass YLZ 2. Compare and convert metric units of volume SKB <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Which metric unit is appropriate? FPM • Conversion tables - metric units YTJ
Lesson 5.6: Real-World Problems: Metric Units of Measure	<ol style="list-style-type: none"> 1. Measurement word problems: metric units KCA <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Measurement word problems with fractions UST
Lesson 5.7: Time	<ol style="list-style-type: none"> 1. Convert mixed time units ZSJ 2. Convert between 12-hour and 24-hour time DQ6 3. Time word problems: find the start, end, or elapsed time MJC

Also consider

- Convert time units PS8
 - Add and subtract mixed time units W2H
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Chapter 6

Area and Perimeter

Textbook section	IXL skills
Lesson 6.1: Area and Unknown Sides	<ol style="list-style-type: none">1. Find the perimeter of rectangles using formulas KGJ2. Find the area of rectangles using formulas JBF3. Find the missing side length of a rectangle UPZ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Understanding area and perimeter of rectangles Q7T
Lesson 6.2: Composite Figures	<ol style="list-style-type: none">1. Area of complex figures (with all right angles) 38W2. Perimeter of rectilinear shapes H9D
Lesson 6.3: Real-World Problems: Area and Perimeter	<ol style="list-style-type: none">1. Area between two rectangles GY2 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Area and perimeter: word problems LTP

Chapter 7

Angles and Line Segments

Textbook section	IXL skills
Lesson 7.1: Understanding and Measuring Angles	<ol style="list-style-type: none">1. Points, lines, line segments, rays, and angles 9MK2. Measure angles with a protractor NCN3. Acute, right, and obtuse angles W6Z <p><i>Also consider</i></p> <ul style="list-style-type: none">• Estimate angle measurements LUJ
Lesson 7.2: Drawing Angles to 180°	<ol style="list-style-type: none">1. Draw angles with a protractor R9K
Lesson 7.3: Turns and Angle Measures	<ol style="list-style-type: none">1. Angles of 90, 180, 270, and 360 degrees UQV2. Use fractions to find the measure of an angle Q68 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Angles as fractions of a circle N72
Lesson 7.4: Finding Unknown Angles	<ol style="list-style-type: none">1. Adjacent angles VJY2. Angle measures: word problems YUA
Lesson 7.5: Drawing Perpendicular and Parallel Line Segments	<ol style="list-style-type: none">1. Parallel, perpendicular, and intersecting lines 8VQ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify parallel, perpendicular, and intersecting lines DSU

Chapter 8

Polygons and Symmetry

Textbook section	IXL skills
Lesson 8.1: Classifying Triangles	<ol style="list-style-type: none">1. Acute, obtuse, and right triangles 7QK
Lesson 8.2: Classifying Polygons	<ol style="list-style-type: none">1. Sides and angles of quadrilaterals PTK2. Classify quadrilaterals A6V3. Pick all the names for a quadrilateral 6CT <p><i>Also consider</i></p> <ul style="list-style-type: none">• Parallel sides in quadrilaterals 58M• Draw quadrilaterals L5Y
Lesson 8.3: Symmetric Shapes and Lines of Symmetry	<ol style="list-style-type: none">1. Identify lines of symmetry 9FD2. Count lines of symmetry MWS <p><i>Also consider</i></p> <ul style="list-style-type: none">• Line symmetry HB9
Lesson 8.4: Making Symmetric Shapes and Patterns	<ol style="list-style-type: none">1. Draw lines of symmetry SQF

Chapter 9

Tables and Line Graphs

Textbook section	IXL skills
Lesson 9.1: Making and Interpreting a Table	<ol style="list-style-type: none">1. Create frequency charts BVV2. Interpret frequency charts PKD <p><i>Also consider</i></p> <ul style="list-style-type: none">• Compare numbers in tables EFV
Lesson 9.2: Using a Table	<ol style="list-style-type: none">1. Read a table B9R
Lesson 9.3: Line Graphs	<ol style="list-style-type: none">1. Interpret line graphs 36B2. Create line graphs QX23. Choose the best type of graph 7G4