



IXL Skill Alignment

4th grade alignment for My Math



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Chapter 1

Place Value

Textbook section

Lesson 1: Place Value

IXL skills

Identify place value

1. Value of a digit WLP
2. Identify place value names Y7Q
3. Place value review B5N

Compare place values

4. Convert between place values KVR
5. Relationship between place values KFD

Lesson 2: Read and Write Multi-Digit Numbers

Expanded form

1. Convert between standard and expanded form M5V

Standard form

2. Writing numbers up to 1,000 in words: convert words to digits DYA
3. Writing numbers up to 100,000 in words: convert words to digits SQQ
4. Writing numbers up to one million in words: convert words to digits 5G4

Word form

5. Writing numbers up to 1,000 in words: convert digits to words 59H
6. Writing numbers up to 100,000 in words: convert digits to words 2RZ
7. Writing numbers up to one million in words: convert digits to words 7WT
8. Spell word names for numbers up to one million 2PZ

Lesson 3: Compare Numbers

1. Compare numbers up to one hundred thousand DP2
2. Compare numbers up to one million 6Y2

Lesson 4: Order Numbers

1. Order numbers up to one million 94E



Lesson 5: Use Place Value to Round

1. Rounding: up to hundred thousands place QV7

Lesson 6: Problem-Solving Investigation

1. Place value word problems Z47

Chapter 2

Add and Subtract Whole Numbers

Textbook section	IXL skills
Lesson 1: Addition Properties and Subtraction Rules	1. Properties of addition D9R
Lesson 2: Addition and Subtraction Patterns	1. Addition patterns over increasing place values YFV 2. Subtraction patterns over increasing place values 5SX
Lesson 3: Add and Subtract Mentally	1. Add two numbers up to five digits RG2 2. Subtract numbers up to five digits VP2
Lesson 4: Estimate Sums and Differences	Sums 1. Estimate sums VMD 2. Estimate sums: word problems SB9 Differences 3. Estimate differences QJY 4. Estimate differences: word problems GWS
Lesson 5: Add Whole Numbers	1. Add two numbers up to six digits HNH 2. Choose numbers with a particular sum P5U
Lesson 6: Subtract Whole Numbers	1. Subtract numbers up to six digits TSJ 2. Choose numbers with a particular difference XEV
Lesson 7: Subtract Across Zero	
Lesson 8: Problem-Solving Investigation Strategy: Draw a Diagram	1. Add two numbers up to five digits: word problems ZPY 2. Subtract numbers up to five digits: word problems R9N
Lesson 9: Solve Multi-Step Word Problems	1. Multi-step word problems involving subtraction 68Y



2. Multi-step addition and subtraction word problems CZM

Chapter 3

Understand Multiplication and Division

Textbook section	IXL skills
Lesson 1: Relate Multiplication and Division	1. Relate multiplication and division for arrays CKG 2. Relate multiplication and division: up to 100 VR8
Lesson 2: Relate Division and Subtraction	1. Divide using repeated subtraction CCY
Lesson 3: Multiplication as Comparison	1. Compare numbers using multiplication GGE
Lesson 4: Compare to Solve Problems	1. Compare numbers using multiplication: word problems QKB 2. Comparison word problems: addition or multiplication? YCW
Lesson 5: Multiplication Properties and Division Rules	1. Properties of division TNJ
Lesson 6: The Associative Property of Multiplication	1. Multiply three numbers up to two digits each FNQ 2. Multiply using the associative and commutative properties DLF
Lesson 7: Factors and Multiples	1. Choose the multiples of a given number up to 10 EFB 2. Identify factors 2S9
Lesson 8: Problem-Solving Investigation Strategy: Reasonable Answers	

Chapter 4

Multiply with One-Digit Numbers

Textbook section	IXL skills
Lesson 1: Multiples of 10, 100, and 1,000	<ol style="list-style-type: none"> 1. Multiply by 10 or 100 M2N 2. Multiplication patterns over increasing place values Y5K
Lesson 2: Round to Estimate Products	<ol style="list-style-type: none"> 1. Estimate products: multiply by 1-digit numbers WDG
Lesson 3: Hands On: Use Place Value to Multiply	
Lesson 4: Hands On: Use Models to Multiply	<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
Lesson 5: Multiply by a Two-Digit Number	<ol style="list-style-type: none"> 1. Multiply by one-digit numbers: without regrouping M8A
Lesson 6: Hands On: Model Regrouping	
Lesson 7: The Distributive Property	<ol style="list-style-type: none"> 1. Properties of multiplication B6N 2. Distributive property: find the missing factor US7
Lesson 8: Multiply with Regrouping	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by 2-digit numbers GDW
Lesson 9: Multiply by a Multi-Digit Number	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by 3-digit or 4-digit numbers PPM
Lesson 10: Problem Solving: Estimate or Exact Answer	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by 2-digit numbers: word problems UR9
Lesson 11: Multiply Across Zeros	

Chapter 5

Multiply with Two-Digit Numbers

Textbook section	IXL skills
Lesson 1: Multiply by Tens	1. Multiply numbers ending in zeroes 7NS
Lesson 2: Estimate Products	1. Estimate products MC2
Lesson 3: Hands On: Use the Distributive Property to Multiply	Use the distributive property 1. Multiply using the distributive property LXG Use area models 2. Multiply 2-digit numbers by 2-digit numbers using area models I ASZ 3. Multiply 2-digit numbers by 2-digit numbers using area models II 8K7
Lesson 4: Multiply by a Two-Digit Number	1. Multiply a 2-digit number by a 2-digit number: complete the missing steps XQ8 2. Multiply a 2-digit number by a 2-digit number MLC 3. Multiply a 2-digit number by a 2-digit number: word problems GZG
Lesson 5: Solve Multi-Step Word Problems	
Lesson 6: Problem Solving: Make a Table	

Chapter 6

Divide by a One-Digit Number

Textbook section	IXL skills
Lesson 1: Divide Multiples of 10, 100, and 1,000	1. Division patterns over increasing place values Z5Y
Lesson 2: Estimate Quotients	1. Divide by 1-digit numbers: pick the better estimate 2FS 2. Estimate quotients using compatible numbers: 1-digit divisors CWE
Lesson 3: Hands On: Use Place Value to Divide	1. Divide 2-digit numbers by 1-digit numbers using arrays M49
Lesson 4: Problem Solving: Make a Model	1. Divide 2-digit numbers by 1-digit numbers: word problems QMT
Lesson 5: Divide with Remainders	1. Divide 2-digit numbers by 1-digit numbers: quotients up to 10 7BS 2. Divide 2-digit numbers by 1-digit numbers 4T7
Lesson 6: Interpret Remainders	1. Divide 2-digit numbers by 1-digit numbers: interpret remainders 5WV
Lesson 7: Place the First Digit	1. Divide larger numbers by 1-digit numbers GE8
Lesson 8: Hands On: Distributive Property and Partial Quotients	<p>Area models</p> 1. Divide 2-digit numbers by 1-digit numbers using area models 7LG 2. Divide 3-digit numbers by 1-digit numbers using area models 6UL <p>Partial quotients</p> 3. Divide using partial quotients YQL <p>Distributive property</p> 4. Divide using the distributive property GDY

Lesson 9: Divide Greater Numbers

1. Divide larger numbers by 1-digit numbers: word problems DKK
 2. Divide larger numbers by 1-digit numbers: interpret remainders J8D
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Lesson 10: Quotients with Zeros**Lesson 11:** Solve Multi-Step Word Problems**Multi-step word problems**

1. Multi-step word problems EA9
2. Multi-step word problems involving remainders SLS
3. Multi-step word problems: identify reasonable answers K6X

Multi-step word problems with models

4. Multi-step word problems with strip diagrams CZQ
 5. Use strip diagrams to represent and solve multi-step word problems G8Z
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Chapter 7

Patterns and Sequences

Textbook section	IXL skills
Lesson 1: Nonnumeric Patterns	<ol style="list-style-type: none"> 1. Find the next shape in a pattern KG8 2. Complete a repeating pattern FNW 3. Make a repeating pattern V68 4. Find the next row in a growing pattern of shapes JZP
Lesson 2: Numeric Patterns	<ol style="list-style-type: none"> 1. Complete an increasing number pattern QHB 2. Complete a geometric number pattern SZJ 3. Number patterns: mixed review E77
Lesson 3: Sequences	<ol style="list-style-type: none"> 1. Use a rule to complete a number pattern 5P2 2. What is true about the pattern made by the rule? 35J
Lesson 4: Problem Solving: Look for a Pattern	<ol style="list-style-type: none"> 1. Number patterns: word problems C62
Lesson 5: Addition and Subtraction Rules	<p>Addition</p> <ol style="list-style-type: none"> 1. Addition input/output tables QTQ 2. Addition input/output tables: find the rule QVV <p>Subtraction</p> <ol style="list-style-type: none"> 3. Subtraction input/output tables: up to three digits JDD
Lesson 6: Multiplication and Division Rules	<p>Multiplication</p> <ol style="list-style-type: none"> 1. Multiplication input/output tables BEP 2. Multiplication input/output tables: find the rule KQG <p>Division</p> <ol style="list-style-type: none"> 3. Division input/output tables P2N 4. Division input/output tables: find the rule BWK <p>Mixed operations</p> <ol style="list-style-type: none"> 5. Input/output tables with addition, subtraction, multiplication, and division HDS

6. Complete a table for a two-variable relationship HK8
7. Write a two-variable equation DLU

Lesson 7: Order of Operations

1. Perform multiple operations with whole numbers 9HE

Lesson 8: Hands On: Equations with Two Operations

1. Write variable expressions VYY
2. Evaluate variable expressions 88L

Lesson 9: Equations with Multiple Operations

Chapter 8

Fractions

Textbook section	IXL skills
Lesson 1: Factors and Multiples	<ol style="list-style-type: none"> 1. Choose the multiples of a given number up to 12 ENC 2. Identify factors 2S9 3. Find all the factor pairs of a number URL 4. Choose numbers with a particular product U9N
Lesson 2: Prime and Composite Numbers	<ol style="list-style-type: none"> 1. Prime and composite: up to 20 TNF 2. Prime and composite: up to 100 L9R
Lesson 3: Hands On: Model Equivalent Fractions	<ol style="list-style-type: none"> 1. Find equivalent fractions using area models HYC 2. Graph equivalent fractions on number lines WQL
Lesson 4: Equivalent Fractions	<p>Equivalent fractions</p> <ol style="list-style-type: none"> 1. Identify equivalent fractions GSG 2. Equivalent fractions: find the missing numerator or denominator 7CY 3. Patterns of equivalent fractions 7LH <p>Equivalent fraction models</p> <ol style="list-style-type: none"> 4. Find equivalent fractions using circle area models HG7
Lesson 5: Simplest Form	<ol style="list-style-type: none"> 1. Write fractions in lowest terms 3R5
Lesson 6: Compare and Order Fractions	<p>Compare fractions using models</p> <ol style="list-style-type: none"> 1. Compare fractions with like numerators or denominators using models Q87 2. Graph and compare fractions with like numerators or denominators on number lines 9XF 3. Compare fractions using models 7XF <p>Compare fractions</p> <ol style="list-style-type: none"> 4. Compare fractions with like numerators or denominators M8E 5. Compare fractions 99U

6. Compare fractions: find the missing numerator or denominator KPU

Order fractions

7. Order fractions with like numerators or denominators JU2
8. Order fractions MSB
9. Graph and order fractions on number lines 7GK

Lesson 7: Use Benchmark Fractions to Compare and Order

1. Benchmark fractions LUS
2. Compare fractions using benchmarks EHJ
3. Compare fractions using benchmarks: find the missing numerator UKZ

Lesson 8: Problem Solving: Use Logical Reasoning

1. Compare fractions in recipes U2K
2. Find smaller or larger fractions PDJ

Lesson 9: Mixed Numbers

1. Identify mixed numbers UX6

Lesson 10: Mixed Numbers and Improper Fractions

1. Convert between improper fractions and mixed numbers JFE
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Chapter 9

Operations with Fractions

Textbook section	IXL skills
Lesson 1: Hands On: Use Models to Add Like Fractions	Decompose fractions <ol style="list-style-type: none"> Decompose fractions into unit fractions using models QG2 Decompose fractions into unit fractions XHG Decompose fractions N2Z Decompose fractions multiple ways UEW Add fractions <ol style="list-style-type: none"> Add fractions with like denominators using strip models Z63
Lesson 2: Add Like Fractions	<ol style="list-style-type: none"> Add fractions with like denominators PDU
Lesson 3: Hands On: Use Models to Subtract Like Fractions	<ol style="list-style-type: none"> Subtract fractions with like denominators using strip models QAS
Lesson 4: Subtract Like Fractions	Subtraction <ol style="list-style-type: none"> Subtract fractions with like denominators AVF Mixed operations <ol style="list-style-type: none"> Add and subtract fractions with like denominators FXD
Lesson 5: Problem Solving: Work Backward	<ol style="list-style-type: none"> Add and subtract fractions with like denominators in recipes LYR Add and subtract fractions with like denominators: word problems XBR
Lesson 6: Add Mixed Numbers	<ol style="list-style-type: none"> Add mixed numbers AXT
Lesson 7: Subtract Mixed Numbers	Subtraction <ol style="list-style-type: none"> Subtract mixed numbers RXU Mixed operations <ol style="list-style-type: none"> Add and subtract mixed numbers with like denominators 9AS

Lesson 8: Hands On: Model Fractions and Multiplication**Unit fractions**

1. Multiply unit fractions by whole numbers using number lines XKJ
2. Multiply unit fractions by whole numbers using models 8J3

Fractions

3. Multiply fractions by whole numbers using number lines Q7B
4. Multiply fractions by whole numbers using models Y5C

Lesson 9: Multiply Fractions by Whole Numbers**Unit fractions**

1. Multiply unit fractions by whole numbers EXQ
2. Multiply unit fractions by whole numbers: sorting VGC
3. Multiply unit fractions by whole numbers: word problems DSB

Fractions

4. Multiply fractions by whole numbers JLH
5. Multiply fractions by whole numbers using models: complete the equation CZ7
6. Multiply fractions by whole numbers: sorting X48
7. Multiply fractions by whole numbers: word problems LX8

Chapter 10

Fractions and Decimals

Textbook section	IXL skills
Lesson 1: Hands On: Place Value Through Tenths and Hundredths	<ol style="list-style-type: none"> 1. What decimal number is illustrated? B7E 2. Place values in decimal numbers UFR 3. Understanding decimals expressed in words LUL
Lesson 2: Tenths	<ol style="list-style-type: none"> 1. Understanding tenths expressed in words 2L4
Lesson 3: Hundredths	<ol style="list-style-type: none"> 1. Understanding hundredths expressed in words VAD
Lesson 4: Hands On: Model Decimals and Fractions	<ol style="list-style-type: none"> 1. Model decimals and fractions less than 1 7Q5
Lesson 5: Decimals and Fractions	<ol style="list-style-type: none"> 1. Convert fractions to decimals: denominators of 10 and 100 5G9
Lesson 6: Use Place Value and Models to Add	<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
Lesson 7: Compare and Order Decimals	<p>Compare decimals</p> <ol style="list-style-type: none"> 1. Compare decimals on number lines T2W 2. Compare decimals using models CV7 3. Compare decimal numbers DY5 <p>Order decimals</p> <ol style="list-style-type: none"> 4. Put decimal numbers in order I LVX 5. Put decimal numbers in order II WFD
Lesson 8: Problem Solving: Extra or Missing Information	

Chapter 11

Customary Measurement

Textbook section	IXL skills
Lesson 1: Customary Units of Length	<ol style="list-style-type: none"> 1. Measure using an inch ruler EDW 2. Which customary unit of length is appropriate? LUQ
Lesson 2: Convert Customary Units of Length	<ol style="list-style-type: none"> 1. Compare and convert customary units of length WFH
Lesson 3: Customary Units of Capacity	<ol style="list-style-type: none"> 1. Which customary unit of volume is appropriate? GPW
Lesson 4: Convert Customary Units of Capacity	<ol style="list-style-type: none"> 1. Compare and convert customary units of volume GAA
Lesson 5: Customary Units of Weight	<ol style="list-style-type: none"> 1. Which customary unit is appropriate? YYA
Lesson 6: Convert Customary Units of Weight	<p>Weight</p> <ol style="list-style-type: none"> 1. Compare and convert customary units of weight LJV <p>Mixed units</p> <ol style="list-style-type: none"> 2. Conversion tables - customary units LSP 3. Compare and convert customary units UCE
Lesson 7: Convert Units of Time	<ol style="list-style-type: none"> 1. Convert time units VNU
Lesson 8: Display Measurement Data in a Line Plot	<p>Whole numbers</p> <ol style="list-style-type: none"> 1. Create line plots GNT 2. Interpret line plots G8K <p>Fractions</p> <ol style="list-style-type: none"> 3. Create and interpret line plots with fractions QQB
Lesson 9: Solve Measurement Problems	<ol style="list-style-type: none"> 1. Measurement word problems 2PY 2. Measurement word problems with fractions UST

Lesson 10: Problem Solving: Guess, Check, and Revise

1. Solve word problems using guess-and-check PCA
 2. Find the order JBQ
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Chapter 12

Metric Measurement

Textbook section	IXL skills
Lesson 1: Metric Units of Length	Compare units of length <ol style="list-style-type: none">1. Compare metric units of length KRE2. Which metric unit of length is appropriate? LN7 Measure length <ol style="list-style-type: none">3. Measure using a centimeter ruler AAE
Lesson 2: Metric Units of Capacity	<ol style="list-style-type: none">1. Which metric unit of volume is appropriate? UJW
Lesson 3: Metric Units of Mass	<ol style="list-style-type: none">1. Which metric unit of weight is appropriate? 4W92. Which metric unit is appropriate? FPM
Lesson 4: Problem Solving: Make an Organized List	<ol style="list-style-type: none">1. Making change 6GT
Lesson 5: Convert Metric Units	<ol style="list-style-type: none">1. Compare and convert metric units UL52. Conversion tables - metric units YTJ
Lesson 6: Solve Measurement Problems	

Chapter 13

Perimeter and Area

Textbook section	IXL skills
Lesson 1: Measure Perimeter	Polygons <ol style="list-style-type: none">Perimeter of polygons HLW Squares and rectangles <ol style="list-style-type: none">Find the perimeter of rectangles using formulas KGJPerimeter: word problems GBE
Lesson 2: Problem Solving: Solve a Simpler Problem	<ol style="list-style-type: none">Perimeter: find the missing side length QAC
Lesson 3: Hands On: Model Area	<ol style="list-style-type: none">Select figures with a given area GWPSelect two figures with the same area HGKCreate rectangles with a given area BMVCreate figures with a given area ZZX
Lesson 4: Measure Area	<ol style="list-style-type: none">Find the area or missing side length of a rectangle 9E6Area between two rectangles GY2Area: word problems JW7
Lesson 5: Relate Area and Perimeter	<ol style="list-style-type: none">Relationship between area and perimeter SKKArea and perimeter: word problems LTP

Chapter 14

Geometry

Textbook section	IXL skills
Lesson 1: Draw Points, Lines, and Rays	1. Points, lines, line segments, rays, and angles 9MK
Lesson 2: Draw Parallel and Perpendicular Lines	1. Parallel, perpendicular, and intersecting lines 8VQ 2. Identify parallel, perpendicular, and intersecting lines DSU
Lesson 3: Hands On: Model Angles	1. Angles as fractions of a circle N72
Lesson 4: Classify Angles	1. Acute, right, obtuse, and straight angles R5K 2. Angles of 90, 180, 270, and 360 degrees UQV
Lesson 5: Measure Angles	1. Measure angles with a protractor NCN 2. Estimate angle measurements LUJ
Lesson 6: Draw Angles	1. Draw angles with a protractor R9K
Lesson 7: Solve Problems with Angles	1. Adjacent angles VJY
Lesson 8: Triangles	1. Acute, obtuse, and right triangles 7QK
Lesson 9: Quadrilaterals	<p>Identify quadrilaterals</p> <ol style="list-style-type: none"> 1. Identify parallelograms DJ9 2. Identify trapezoids 9MJ 3. Identify rectangles GHH 4. Identify rhombuses KUU 5. Classify quadrilaterals A6V 6. Pick all the names for a quadrilateral 6CT <p>Describe quadrilaterals</p> <ol style="list-style-type: none"> 7. Parallel sides in quadrilaterals 58M

Lesson 10: Draw Lines of Symmetry

1. Identify lines of symmetry 9FD
 2. Draw lines of symmetry SQF
 3. Count lines of symmetry MWS
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