



IXL Skill Alignment

5th grade alignment for My Math



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Chapter 1

Place Value

Textbook section	IXL skills
Lesson 1: Place Value Through Millions	<p>Expanded form</p> <ol style="list-style-type: none"> Convert between standard and expanded form HU7 <p>Standard form</p> <ol style="list-style-type: none"> Place value 83P Writing numbers in words: convert words to digits EZT <p>Word form</p> <ol style="list-style-type: none"> Writing numbers in words: convert digits to words DZS Spell word names for numbers up to one million ZEC
Lesson 2: Compare and Order Whole Number Through Millions	<p>Compare</p> <ol style="list-style-type: none"> Compare numbers up to millions S8H <p>Order</p> <ol style="list-style-type: none"> Put numbers in order AET
Lesson 3: Hands On: Model Fractions and Decimals	<p>Decimals</p> <ol style="list-style-type: none"> What decimal number is illustrated? CTP <p>Fractions</p> <ol style="list-style-type: none"> Fractions review PCF <p>Decimals and fractions</p> <ol style="list-style-type: none"> Model decimals and fractions ZKL
Lesson 4: Represent Decimals	<ol style="list-style-type: none"> Understanding decimals expressed in words F9G
Lesson 5: Hands On: Understanding Place Value	<ol style="list-style-type: none"> Relationship between decimal place values DVM
Lesson 6: Place Value Through Thousandths	<ol style="list-style-type: none"> Place values in decimal numbers X8U Convert decimals between standard and expanded form using fractions BLQ

Lesson 7: Compare Decimals

1. Compare decimals on number lines CUF
2. Compare decimal numbers NSG
3. Compare decimals using grids QTG

Lesson 8: Order Whole Numbers and Decimals

1. Put decimal numbers in order YUX

Lesson 9: Problem Solving Investigation: Use the Four Step Plan

1. Add and subtract whole numbers: word problems JYY

Chapter 2

Multiply Whole Numbers

Textbook section	IXL skills
Lesson 1: Prime Factorization	1. Prime factorization <small>YL2</small>
Lesson 2: Hands On: Prime Factorization Patterns	
Lesson 3: Powers and Exponents	<p>Powers of ten</p> <ol style="list-style-type: none"> 1. Write powers of ten with exponents <small>KGQ</small> 2. Evaluate powers of ten <small>XTY</small> 3. Understanding powers of ten <small>8HS</small> <p>Exponents</p> <ol style="list-style-type: none"> 4. Understanding exponents <small>VDP</small> 5. Evaluate exponents <small>XFF</small> <p>Prime factorization with exponents</p> <ol style="list-style-type: none"> 6. Prime factorization with exponents <small>F5F</small>
Lesson 4: Multiplication Patterns	<ol style="list-style-type: none"> 1. Multiplication patterns over increasing place values <small>BCK</small> 2. Multiply numbers ending in zeroes <small>3V9</small> 3. Multiply a whole number by a power of ten: with exponents <small>92K</small>
Lesson 5: Problem Solving Investigation: Make a Table	1. Multiplication input/output tables <small>STJ</small>
Lesson 6: Hands On: Use Partial Products and the Distributive Property	<p>Partial products</p> <ol style="list-style-type: none"> 1. Multiply 1-digit numbers by 2-digit numbers using partial products <small>K5D</small> <p>Area models</p> <ol style="list-style-type: none"> 2. Multiply 1-digit numbers by 2-digit numbers using area models <small>RBL</small>
Lesson 7: The Distributive Property	1. Multiply using the distributive property <small>2LR</small>

Lesson 8: Estimate Products

1. Estimate products TKD
 2. Estimate products: word problems 9JW
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Lesson 9: Multiply by One-Digit Numbers

1. Multiply by 1-digit numbers 7H4
 2. Multiply by 1-digit numbers: word problems 94W
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Lesson 10: Multiply by Two-Digit Numbers

1. Multiply by 2-digit numbers: complete the missing steps 9LX
 2. Multiply 2-digit numbers by 2-digit numbers LLJ
 3. Multiply by 2-digit numbers: word problems J95
 4. Multiply 2-digit numbers by 3-digit numbers JHB
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Chapter 3

Divide by a One-Digit Divisor

Textbook section	IXL skills
Lesson 1: Relate Division to Multiplication	1. Relate multiplication and division VA6
Lesson 2: Hands On: Division Models	
Lesson 3: Two-Digit Dividends	1. Division facts to 12 ZWQ 2. Divide 2-digit numbers by 1-digit numbers VZ2
Lesson 4: Division Patterns	1. Division patterns over increasing place values 8Z6 2. Divide numbers ending in zeroes: up to hundreds 5HS
Lesson 5: Estimate Quotients	1. Estimate quotients: word problems HD6
Lesson 6: Hands On: Division Models with Greater Numbers	
Lesson 7: Hands On: Distributive Property and Partial Quotients	Distributive property 1. Divide 2-digit by 1-digit numbers using the distributive property EGM Partial quotients 2. Divide using partial quotients HZB
Lesson 8: Divide Three-and Four-Digit Dividends	1. Divide multi-digit numbers by 1-digit numbers XHZ 2. Divide multi-digit numbers by 1-digit numbers: word problems 5DE
Lesson 9: Place the First Digit	
Lesson 10: Quotients with Zeros	1. Divide multi-digit numbers by 1-digit numbers with zeroes in the quotient NQ7
Lesson 11: Hands On: Models to Interpret the Remainder	1. Divide by 1-digit numbers: interpret remainders 72W

Lesson 12: Interpret the Remainder

Lesson 13: Problem Solving Investigation:
Determine Extra or Missing Information

1. Word problems with extra or missing information 9KF
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Chapter 4

Divide by a Two-Digit Divisor

Textbook section	IXL skills
Lesson 1: Estimate Quotients	<ol style="list-style-type: none">1. Estimate quotients V8H2. Estimate quotients: 2-digit divisors EFW
Lesson 2: Hands On: Divide Using Base-Ten Blocks	<ol style="list-style-type: none">1. Divide by 2-digit numbers using models AJA
Lesson 3: Divide by a Two-Digit Divisor	<ol style="list-style-type: none">1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW
Lesson 4: Adjust Quotients	<ol style="list-style-type: none">1. Adjust quotients 5FH
Lesson 5: Divide Greater Numbers	<ol style="list-style-type: none">1. Divide 4-digit numbers by 2-digit numbers 35K
Lesson 6: Problem Solving Investigation: Solve a Simpler Problem	<ol style="list-style-type: none">1. Divide 4-digit numbers by 2-digit numbers: word problems J8L

Chapter 5

Add and Subtract Decimals

Textbook section	IXL skills
Lesson 1: Round Decimals	1. Round decimals MPB
Lesson 2: Estimate Sums and Differences	1. Estimate sums and differences of decimals using rounding YGG
Lesson 3: Problem Solving Investigation: Estimate or Exact Answer	1. Compare, order, and round decimals: word problems 2MV
Lesson 4: Hands On: Add Decimals Using Base-Ten Blocks	
Lesson 5: Hands On: Add Decimals Using Models	
Lesson 6: Add Decimals	1. Add decimal numbers BDX
Lesson 7: Addition Properties	1. Properties of addition LFE 2. Add using properties RZR
Lesson 8: Hands On: Subtract Decimals Using Base-Ten Blocks	
Lesson 9: Hands On: Subtract Decimals Using Models	
Lesson 10: Subtract Decimals	<p>Subtraction</p> <p>1. Subtract decimal numbers SC8</p> <p>Mixed operations</p> <p>2. Add and subtract decimal numbers 7VJ 3. Add and subtract decimals: word problems 35U 4. Add and subtract money amounts A8R</p>

Chapter 6

Multiply and Divide Decimals

Textbook section	IXL skills
Lesson 1: Estimate Products of Whole Numbers and Decimals	1. Estimate products of whole numbers and decimals Q6D
Lesson 2: Hands On: Use Models to Multiply	1. Multiply a decimal by a one-digit whole number using blocks U5Q
Lesson 3: Multiply Decimals by Whole Numbers	1. Multiply a decimal by a one-digit whole number XNY
Lesson 4: Hands On: Use Models to Multiply Decimals	1. Complete the decimal multiplication sentence using grids R9T 2. Multiply decimals using grids 66Z
Lesson 5: Multiply Decimals	1. Multiply two decimals: products up to hundredths FLL 2. Multiply two decimals: where does the decimal point go? 6FA
Lesson 6: Multiply Decimals by Powers of Ten	1. Multiply a decimal by a power of ten DN2
Lesson 7: Problem Solving Investigation: Look for a Pattern	1. Multiply decimals and whole numbers: word problems 83A
Lesson 8: Multiplication Properties	1. Properties of multiplication LUE 2. Solve using properties of multiplication: with decimals RG9
Lesson 9: Estimate Quotients	1. Estimate decimal quotients CZ9
Lesson 10: Hands On: Divide Decimals	1. Divide decimals using blocks: complete the equation DDK
Lesson 11: Divide Decimals by Whole Numbers	1. Divide decimals by whole numbers 6B5 2. Divide decimals by whole numbers: word problems NKE

Lesson 12: Hands On: Use Models to Divide
Decimals

Lesson 13: Divide Decimals

Lesson 14: Divide Decimals by Powers of Ten

1. Divide by powers of ten H2N
 2. Divide by a power of ten with decimals: find the missing number R2P
 3. Decimal division patterns over increasing place values GBS
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Chapter 7

Expressions and Patterns

Textbook section	IXL skills
Lesson 1: Hands On: Numerical Expressions	
Lesson 2: Order of Operations	<p>Without parentheses or brackets</p> <ol style="list-style-type: none"> Evaluate numerical expressions Z5N <p>With parentheses or brackets</p> <ol style="list-style-type: none"> Evaluate numerical expressions with parentheses HGW Evaluate numerical expressions with parentheses and brackets TVY Evaluate numerical expressions with parentheses in different places 9F5 Identify mistakes involving the order of operations JLJ
Lesson 3: Write Numerical Expressions	<ol style="list-style-type: none"> Write numerical expressions: two operations 8ME
Lesson 4: Problem Solving Investigation: Work Backward	<ol style="list-style-type: none"> Multi-step word problems Z76
Lesson 5: Hands On: Generate Patterns	<ol style="list-style-type: none"> Shape patterns 9DE
Lesson 6: Patterns	<ol style="list-style-type: none"> Use a rule to complete a number sequence RPP Complete an increasing number sequence GZW Complete a geometric number sequence X8Q Number sequences: mixed review GM2
Lesson 7: Hands On: Map Locations	
Lesson 8: Ordered Pairs	<p>Describe the coordinate plane</p> <ol style="list-style-type: none"> Describe the coordinate plane PF8 <p>Find and graph points</p> <ol style="list-style-type: none"> Objects on a coordinate plane NTR Graph points on a coordinate plane AST

Give and follow directions

4. Coordinate planes as maps ZBD
5. Follow directions on a coordinate plane XQR

Lesson 9: Graph Patterns

1. Graph points from a table HWV
 2. Use a rule to complete a table and a graph N9B
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Chapter 8

Fractions and Decimals

Textbook section	IXL skills
Lesson 1: Fractions and Division	<p>Solve word problems</p> <ol style="list-style-type: none"> 1. Understand fractions as division: word problems CTD 2. Fractions of a group: word problems MR2 <p>Relate division and fractions</p> <ol style="list-style-type: none"> 3. Relate division and fractions D86
Lesson 2: Greatest Common Factor	<ol style="list-style-type: none"> 1. Greatest common factor 4C2 2. Greatest common factor of three numbers 7TA
Lesson 3: Simplest Form	<ol style="list-style-type: none"> 1. Equivalent fractions MKA 2. Write fractions in lowest terms A76
Lesson 4: Problem Solving Investigation: Guess, Check, and Revise	<ol style="list-style-type: none"> 1. Guess-and-check problems DRJ
Lesson 5: Least Common Multiple	<ol style="list-style-type: none"> 1. Least common multiple BMQ 2. Least common multiple of three or four numbers ZPQ
Lesson 6: Compare Fractions	<p>Find least common denominator</p> <ol style="list-style-type: none"> 1. Least common denominator R7P <p>Compare fractions</p> <ol style="list-style-type: none"> 2. Compare fractions 7VD
Lesson 7: Hands On: Use Models to Write Fractions as Decimals	<ol style="list-style-type: none"> 1. Model decimals and fractions ZKL
Lesson 8: Write Fractions as Decimals	<ol style="list-style-type: none"> 1. Convert fractions to decimals 6QG

Chapter 9

Add and Subtract Fractions

Textbook section	IXL skills
Lesson 1: Rounding Fractions	
Lesson 2: Add Like Fractions	1. Add fractions with like denominators C5X
Lesson 3: Subtract Like Fractions	<p>Subtraction</p> <p>1. Subtract fractions with like denominators Y56</p> <p>Mixed operations</p> <p>2. Add and subtract fractions with like denominators FXW</p> <p>3. Add and subtract fractions with like denominators: word problems 7YQ</p>
Lesson 4: Hands On: Use Models to Add Unlike Fractions	1. Add fractions with unlike denominators using models 2BS
Lesson 5: Add Unlike Fractions	1. Add fractions with unlike denominators D9N
Lesson 6: Hands On: Use Models to Subtract Unlike Fractions	1. Subtract fractions with unlike denominators using models QA6
Lesson 7: Subtract Unlike Fractions	<p>1. Subtract fractions with unlike denominators VSP</p> <p>2. Add and subtract fractions with unlike denominators: word problems TCD</p> <p>3. Complete addition and subtraction sentences with fractions FCA</p>
Lesson 8: Problem Solving Investigation: Determine Reasonable Answers	1. Multi-step word problems: identify reasonable answers NNJ
Lesson 9: Estimate Sums and Differences	<p>1. Estimate sums and differences of mixed numbers HJJ</p> <p>2. Round mixed numbers RYP</p>
Lesson 10: Hands On: Use Models to Add Mixed Numbers	

Lesson 11: Add Mixed Numbers

1. Add mixed numbers with unlike denominators FHD
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Lesson 12: Subtract Mixed Numbers**Lesson 13:** Subtract with Renaming**Subtraction**

1. Subtract mixed numbers with unlike denominators FAA

Mixed operations

2. Add and subtract mixed numbers with unlike denominators RZC
 3. Add and subtract mixed numbers: word problems 6BH
 4. Complete addition and subtraction sentences with mixed numbers PSP
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Chapter 10

Multiply and Divide Fractions

Textbook section	IXL skills
Lesson 1: Hands On: Part of a Number	<ol style="list-style-type: none"> Fractions of a number AHX Fractions of a number: word problems LPC
Lesson 2: Estimate Products of Fractions	<ol style="list-style-type: none"> Estimate products of fractions and whole numbers USL
Lesson 3: Hands On: Model Fraction Multiplication	<ol style="list-style-type: none"> Multiply unit fractions by whole numbers using models AFS Multiplying fractions by whole numbers: choose the model NKU Multiply fractions by whole numbers using models: complete the equation VXF
Lesson 4: Multiply Whole Numbers and Fractions	<ol style="list-style-type: none"> Multiply fractions by whole numbers I QFQ Multiply fractions by whole numbers II 69L Multiply fractions by whole numbers: word problems U2V
Lesson 5: Hands On: Use Models to Multiply Fractions	<ol style="list-style-type: none"> Multiply two unit fractions using models HDJ Multiply two fractions using models: fill in the missing factor AT7 Multiply two fractions using models UAY
Lesson 6: Multiply Fractions	<ol style="list-style-type: none"> Multiply two fractions 8KV Multiply two fractions: word problems 38Y
Lesson 7: Multiply Mixed Numbers	<p>Multiply a mixed number and a whole number</p> <ol style="list-style-type: none"> 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 a mixed number by a whole number 6Q4 <p>Multiply a mixed number and a fraction</p> <ol style="list-style-type: none"> Multiply with mixed numbers using area models WVR

5. Multiply a mixed number by a fraction G7W
6. Multiply fractions and mixed numbers in recipes QHN

Multiply two mixed numbers

7. Multiply two mixed numbers P73
8. Multiplication with mixed numbers: word problems 5W6

Lesson 8: Hands On: Multiplication as Scaling

1. Scaling whole numbers by fractions QH2
2. Scaling whole numbers by fractions: justify your answer Q7M
3. Scaling fractions by fractions 9RF
4. Scaling mixed numbers by fractions S6B

Lesson 9: Hands On: Division and Unit Fractions

1. Divide whole numbers by unit fractions using models VDU
2. Divide unit fractions by whole numbers using models XML

Lesson 10: Divide Whole Numbers by Unit Fractions

1. Divide whole numbers by unit fractions 3L9

Lesson 11: Divide Unit Fractions by Whole Numbers

1. Divide unit fractions by whole numbers GXY

Lesson 12: Problem Solving Investigation: Draw a Diagram

1. Divide unit fractions and whole numbers: word problems G2N
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Chapter 11

Measurement

Textbook section	IXL skills
Lesson 1: Hands On: Measure with a Ruler	1. Measure using an inch ruler MHR
Lesson 2: Convert Customary Units of Length	1. Compare and convert customary units of length 7E8
Lesson 3: Problem Solving Investigation: Use Logical Reasoning	1. Find the order G2C
Lesson 4: Hands On: Estimate and Measure Weight	
Lesson 5: Convert Customary Units of Weight	1. Compare and convert customary units of weight XST
Lesson 6: Hands On: Estimate and Measure Capacity	
Lesson 7: Convert Customary Units of Capacity	<p>Capacity</p> <p>1. Compare and convert customary units of volume 96B</p> <p>Mixed units</p> <p>2. Compare and convert customary units 8DZ</p> <p>3. Conversion tables - customary units 7HU</p>
Lesson 8: Display Measurement Data on a Line Plot	1. Create and interpret line plots with fractions XBS
Lesson 9: Hands On: Metric Rulers	1. Measuring using a centimeter ruler TVN
Lesson 10: Convert Metric Units of Length	1. Compare and convert metric units of length 8MZ
Lesson 11: Hands On: Estimate and Measure Metric Mass	
Lesson 12: Convert Metric Units of Mass	1. Compare and convert metric units of weight TM9

Lesson 13: Convert Metric Units of Capacity**Capacity**

1. Compare and convert metric units of volume 27C

Mixed units

2. Compare and convert metric units PJL
 3. Convert metric units involving decimals 2Q8
 4. Conversion tables - metric units 7QS
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Chapter 12

Geometry

Textbook section	IXL skills
Lesson 1: Polygons	<ol style="list-style-type: none"> 1. Is it a polygon? ZH6 2. Number of sides in polygons 4Z2 3. Regular and irregular polygons UHC
Lesson 2: Hands On: Sides and Angles of Triangles	
Lesson 3: Classify Triangles	<ol style="list-style-type: none"> 1. Acute, obtuse, and right triangles N77 2. Scalene, isosceles, and equilateral triangles R94 3. Classify triangles C64
Lesson 4: Hands On: Side and Angles of Quadrilaterals	<ol style="list-style-type: none"> 1. Parallel sides in quadrilaterals AJV
Lesson 5: Classify Quadrilaterals	<p>Identify quadrilaterals</p> <ol style="list-style-type: none"> 1. Identify parallelograms AJB 2. Identify trapezoids FZD 3. Identify rectangles XAE 4. Identify rhombuses C66 5. Classify quadrilaterals 6ZQ <p>Draw quadrilaterals</p> <ol style="list-style-type: none"> 6. Draw quadrilaterals VYE <p>Describe relationships</p> <ol style="list-style-type: none"> 7. Identify the relationships between quadrilaterals KCG 8. Describe relationships among quadrilaterals SZT
Lesson 6: Hands On: Build Three-Dimensional Figures	<ol style="list-style-type: none"> 1. Nets of three-dimensional figures 9LV
Lesson 7: Three-Dimensional Figures	<p>Identify shapes</p> <ol style="list-style-type: none"> 1. Identify three-dimensional figures HSR

Describe shapes

2. Count vertices, edges, and faces ZHF

Lesson 8: Hands On: Use Models to Find Volume

1. Volume of rectangular prisms made of unit cubes WG8

Lesson 9: Volume of Prisms

1. Volume of cubes and rectangular prisms TFL

Lesson 10: Hands On: Build Composite Figures

1. Volume of irregular figures made of unit cubes WCE

Lesson 11: Volume of Composite Figures**Lesson 12:** Problems Solving Investigation: Make a Model

1. Volume of cubes and rectangular prisms: word problems NR6

2. Relationship between volume and the area of the base: word problems QMA