



IXL Skill Alignment

Grade 5 alignment for Into Math



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Module 1

Whole Number Place Value and Multiplication

Textbook section	IXL skills
Lesson 1: Recognize the 10 to 1 Relationship Among Place-Value Positions	<ol style="list-style-type: none"> 1. Place value 83P 2. Relationship between place values ESA
Lesson 2: Use Powers of 10 and Exponents	<ol style="list-style-type: none"> 1. Understanding powers of ten 8HS 2. Evaluate powers of ten XTY 3. Multiply 1-digit numbers by a power of ten: with exponents PU6
Lesson 3: Use a Pattern to Multiply by Multiples of 10, 100, and 1,000	<ol style="list-style-type: none"> 1. Multiplication patterns over increasing place values 5N8
Lesson 4: Multiply by 1-Digit Numbers	<ol style="list-style-type: none"> 1. Multiply 1-digit numbers by larger numbers 9M3 2. Multiply 1-digit numbers by larger numbers: word problems GQK
Lesson 5: Multiply by Multi-Digit Numbers	<ol style="list-style-type: none"> 1. Multiply 2-digit numbers by larger numbers 9VQ 2. Multiply by 3-digit numbers NSP 3. Multiply by 2-digit numbers: word problems J95
Lesson 6: Develop Multiplication Fluency	<ol style="list-style-type: none"> 1. Multi-step word problems with multiplication 37C

Module 2

Understand Division of Whole Numbers

Textbook section	IXL skills
Lesson 1: Relate Multiplication to Division	<ol style="list-style-type: none">1. Relate multiplication and division for arrays ZF52. Divide using area models C9C3. Divide multi-digit numbers by 1-digit numbers: word problems 5DE <p><i>Also consider</i></p> <ul style="list-style-type: none">• Relate multiplication and division VA6
Lesson 2: Represent Division with 2-Digit Divisors	<ol style="list-style-type: none">1. Divide by 2-digit numbers using models AJA
Lesson 3: Estimate with 2-Digit Divisors	<ol style="list-style-type: none">1. Estimate quotients: 2-digit divisors EFW
Lesson 4: Use Partial Quotients	<ol style="list-style-type: none">1. Divide by 2-digit numbers using partial quotients ASM

Module 3

Practice Division of Whole Numbers

Textbook section	IXL skills
Lesson 1: Divide by 2-Digit Divisors	1. Divide 3-digit and 4-digit numbers by 2-digit numbers WUW
Lesson 2: Interpret the Remainder	1. Divide 3-digit and 4-digit numbers by 2-digit numbers: word problems ZS5
Lesson 3: Adjust Quotients	1. Adjust quotients 5FH
Lesson 4: Practice with Division	1. Multi-step word problems involving remainders XGE <i>Also consider</i> <ul style="list-style-type: none">Multi-step word problems: multiplicative comparison V59

Module 4

Expressions

Textbook section	IXL skills
Lesson 1: Write Numerical Expressions	1. Write numerical expressions for word problems NF5
Lesson 2: Interpret Numerical Expressions	1. Write numerical expressions 38D
Lesson 3: Evaluate Numerical Expressions	1. Evaluate numerical expressions with and without parentheses J73 2. Missing operators 8TJ
Lesson 4: Use Grouping Symbols	1. Evaluate numerical expressions with parentheses and brackets TVY 2. Identify mistakes involving the order of operations JLJ 3. Evaluate numerical expressions with parentheses in different places 9F5

Module 5

Volume

Textbook section	IXL skills
Lesson 1: Use Unit Cubes to Build Solid Figures	1. Volume of rectangular prisms made of unit cubes I LMJ
Lesson 2: Understand Volume	1. Volume of rectangular prisms made of unit cubes II QX8
Lesson 3: Estimate Volume	1. Volume of irregular figures made of unit cubes WCE
Lesson 4: Find Volume of Right Rectangular Prisms	1. Relationship between volume and the area of the base: word problems QMA
Lesson 5: Apply Volume Formulas	1. Volume of rectangular prisms CVR 2. Volume of cubes and rectangular prisms: word problems NR6
Lesson 6: Find Volume of Composed Figures	1. Volume of compound figures J83

Module 6

Understanding Addition and Subtraction of Fractions with Unlike Denominators

Textbook section	IXL skills
Lesson 1: Represent Fraction Sums and Differences	<ol style="list-style-type: none">1. Represent addition of fractions with unlike denominators using objects HDL2. Represent subtraction of fractions with unlike denominators using objects SGX
Lesson 2: Represent Addition with Different-Sized Parts	<ol style="list-style-type: none">1. Add fractions with unlike denominators using models 2BS
Lesson 3: Represent Subtraction with Different-Sized Parts	<ol style="list-style-type: none">1. Subtract fractions with unlike denominators using models QA6
Lesson 4: Rewrite Fractions with a Common Denominator	<ol style="list-style-type: none">1. Identify equivalent fractions ZGB

Module 7

Add and Subtract Fractions and Mixed Numbers with Unlike Denominators

Textbook section	IXL skills
Lesson 1: Use Benchmarks and Number Sense to Estimate	<ol style="list-style-type: none"> 1. Estimate sums and differences of fractions using benchmarks 9JR 2. Estimate sums and differences of mixed numbers 7A6
Lesson 2: Assess Reasonableness of Fraction Sums and Differences	<ol style="list-style-type: none"> 1. Add fractions with unlike denominators D9N 2. Subtract fractions with unlike denominators VSP 3. Add and subtract fractions with unlike denominators: word problems TCD
Lesson 3: Assess Reasonableness of Mixed Number Sums and Differences	<ol style="list-style-type: none"> 1. Add and subtract mixed numbers with unlike denominators HHN
Lesson 4: Rename Mixed Numbers to Subtract	<ol style="list-style-type: none"> 1. Subtract mixed numbers with unlike denominators FAA
Lesson 5: Apply Properties of Addition	<ol style="list-style-type: none"> 1. Add 3 fractions or mixed numbers using properties of addition NQY
Lesson 6: Practice Addition and Subtraction Using Equations	<ol style="list-style-type: none"> 1. Complete addition and subtraction sentences with mixed numbers PSP

Module 8

Understand Multiplication of Fractions

Textbook section	IXL skills
Lesson 1: Explore Groups of Equal Shares to Show Multiplication	<ol style="list-style-type: none"> 1. Find fractions of a whole number using arrays YTB
Lesson 2: Represent Multiplication of Whole Numbers by Fractions	<ol style="list-style-type: none"> 1. Multiplying fractions by whole numbers: choose the model NKU 2. Multiply fractions by whole numbers using models: complete the equation VXF
Lesson 3: Represent Multiplication with Unit Fractions	<ol style="list-style-type: none"> 1. Multiply two unit fractions using models HDJ 2. Multiply two unit fractions using models: fill in the missing factor 6VH
Lesson 4: Represent Multiplication of Fractions	<ol style="list-style-type: none"> 1. Multiply two fractions using models UAY 2. Multiply two fractions using models: fill in the missing factor AT7
Lesson 5: Use Representations of Area to Develop Procedures	<ol style="list-style-type: none"> 1. Understand fraction multiplication and area NFK 2. Multiply fractions to find area SEZ 3. Multiply two fractions 8KV
Lesson 6: Interpret Fraction Multiplication as Scaling	<ol style="list-style-type: none"> 1. Scaling by fractions 6NW
Lesson 7: Multiply Fractions	<ol style="list-style-type: none"> 1. Multiply fractions and whole numbers: word problems UP5 2. Multiply two fractions: word problems 38Y

Module 9

Understand and Apply Multiplication of Mixed Numbers

Textbook section	IXL skills
Lesson 1: Explore Area and Mixed Numbers	1. Multiply with mixed numbers using area models WVR
Lesson 2: Multiply Mixed Numbers	1. Multiply two mixed numbers P73
Lesson 3: Practice Multiplication with Fractions and Mixed Numbers	1. Multiplication with mixed numbers: word problems 5W6
Lesson 4: Apply Fraction Multiplication to Find Area	1. Multiply mixed numbers XSE

Module 10

Understand Division with Whole Numbers and Unit Fractions

Textbook section	IXL skills
Lesson 1: Interpret a Fraction as Division	<ol style="list-style-type: none">1. Relate division and fractions D862. Understand fractions as division: word problems CTD
Lesson 2: Represent and Find the Size of Equal Parts	<ol style="list-style-type: none">1. Divide unit fractions by whole numbers using models XML
Lesson 3: Use Representations of Division of Unit Fractions by Whole Numbers	<ol style="list-style-type: none">1. Divide unit fractions by whole numbers using area models YBE
Lesson 4: Represent and Find the Number of Equal-Sized Parts	<ol style="list-style-type: none">1. Divide whole numbers by unit fractions using models VDU
Lesson 5: Use Representations of Division of Whole Numbers by Unit Fractions	<ol style="list-style-type: none">1. Divide whole numbers by unit fractions using area models JYS

Module 11

Divide with Whole Numbers and Unit Fractions

Textbook section	IXL skills
Lesson 1: Relate Multiplication and Division of Fractions	1. Divide unit fractions and whole numbers using area models A7W
Lesson 2: Divide Whole Numbers by Unit Fractions	1. Divide whole numbers by unit fractions 3L9
Lesson 3: Interpret and Solve Division of a Whole Number by a Unit Fraction	1. Divide whole numbers by unit fractions: word problems 8QW
Lesson 4: Divide Unit Fractions by Whole Numbers	1. Divide unit fractions by whole numbers GXY
Lesson 5: Interpret and Solve Division of a Unit Fraction by a Whole Number	1. Divide whole numbers and unit fractions CWQ
Lesson 6: Solve Division Problems Using Visual Models and Equations	1. Divide unit fractions and whole numbers: word problems G2N

Module 12

Customary Measurement

Textbook section	IXL skills
Lesson 1: Convert Customary Measurements	<ol style="list-style-type: none">1. Compare and convert customary units of length 7E82. Compare and convert customary units of weight XST3. Compare and convert customary units of volume 96B
Lesson 2: Solve Multistep Customary Problems	<ol style="list-style-type: none">1. Multi-step problems with customary unit conversions MJ9
Lesson 3: Represent and Interpret Measurement Data in Line Plots	<ol style="list-style-type: none">1. Create and interpret line plots with fractions XBS
Lesson 4: Convert Time and Find Elapsed Time	<ol style="list-style-type: none">1. Convert units of time B8U2. Find start and end times: word problems NX7

Module 13

Decimal Place Value

Textbook section	IXL skills
Lesson 1: Understand Thousandths	<ol style="list-style-type: none">1. Identify place values in decimal numbers 5N52. Relationship between decimal place values DVM
Lesson 2: Read and Write Decimals to Thousandths	<ol style="list-style-type: none">1. Understanding decimals expressed in words F9G2. Convert decimals between standard and expanded form WTU
Lesson 3: Round Decimals	<ol style="list-style-type: none">1. Round decimals MPB
Lesson 4: Compare and Order Decimals	<ol style="list-style-type: none">1. Compare decimals HZU2. Put decimal numbers in order YUX3. Compare, order, and round decimals: word problems 2MV

Module 14

Add and Subtract Decimals

Textbook section	IXL skills
Lesson 1: Represent Decimal Addition	1. Add decimal numbers using blocks NWJ
Lesson 2: Represent Decimal Subtraction	<ul style="list-style-type: none"><i>Coming soon:</i> Subtract decimal numbers using blocks
Lesson 3: Assess Reasonableness of Sums and Differences	<ol style="list-style-type: none">Estimate sums and differences of decimals using benchmarks CHEEstimate sums and differences of decimals using rounding Y8R
Lesson 4: Add Decimals	1. Add decimal numbers BDX
Lesson 5: Subtract Decimals	1. Subtract decimal numbers SC8
Lesson 6: Use Strategies and Reasoning to Add and Subtract	<ol style="list-style-type: none">Add and subtract decimal numbers 7VJAdd and subtract decimals: word problems 35U

Module 15

Multiply Decimals and Whole Numbers

Textbook section	IXL skills
Lesson 1: Understand Decimal Multiplication Patterns	<ol style="list-style-type: none"> 1. Multiply a decimal by a power of ten R8N 2. Multiply by a power of ten with decimals: find the missing number GC5
Lesson 2: Represent Multiplication with Decimals and Whole Numbers	<ol style="list-style-type: none"> 1. Multiply a decimal by a one-digit whole number using blocks U5Q
Lesson 3: Assess Reasonableness of Products	<ol style="list-style-type: none"> 1. Estimate products of two-digit whole numbers and decimals PBW
Lesson 4: Multiply Decimals by 1-Digit Whole Numbers	<ol style="list-style-type: none"> 1. Multiply a decimal by a one-digit whole number using the distributive property 9BA 2. Multiply a decimal by a one-digit whole number XNY
Lesson 5: Multiply Decimals by 2-Digit Whole Numbers	<ol style="list-style-type: none"> 1. Multiply a decimal by a two-digit whole number using area models VNT 2. Multiply a decimal by a multi-digit whole number KTU
Lesson 6: Solve Problems Using Bar Models	<ol style="list-style-type: none"> 1. Multiply decimals and whole numbers: word problems 83A

Module 16

Multiply Decimals

Textbook section	IXL skills
Lesson 1: Represent Decimal Multiplication	1. Multiply decimals using grids 66Z
Lesson 2: Multiply Decimals	1. Multiply two decimals JZR
Lesson 3: Multiply Decimals with Zeros in the Product	1. Multiply two decimals: where does the decimal point go? 6FA 2. Multiply two decimals II L6K

Module 17

Divide Decimals

Textbook section	IXL skills
Lesson 1: Understand Decimal Division Patterns	<ol style="list-style-type: none">1. Divide by powers of ten H2N2. Decimal division patterns over increasing place values GNC3. Divide by a power of ten with decimals: find the missing number R2P
Lesson 2: Represent Division of Decimals by Whole Numbers	<ol style="list-style-type: none">1. Divide decimals using blocks: complete the equation DDK
Lesson 3: Assess Reasonableness of Quotients	<ol style="list-style-type: none">1. Estimate decimal quotients CZ9
Lesson 4: Divide Decimals by Whole Numbers	<ol style="list-style-type: none">1. Divide decimals by one-digit whole numbers MTQ2. Divide decimals by two-digit whole numbers 8HB
Lesson 5: Represent Decimal Division	<ol style="list-style-type: none">1. Divide decimals using area models: complete the equation U6C
Lesson 6: Divide Decimals	<ol style="list-style-type: none">1. Divide by decimals without adding zeroes RTS
Lesson 7: Write Zeros in the Dividend	<ol style="list-style-type: none">1. Divide by decimals 8FT

Module 18

Customary and Metric Measurement

Textbook section	IXL skills
Lesson 1: Understand Metric Conversions	<ol style="list-style-type: none">1. Convert metric units of length ZPJ2. Convert metric units of mass and capacity BXX
Lesson 2: Solve Customary and Metric Conversion Problems	<ol style="list-style-type: none">1. Two-step problems with customary or metric unit conversions SEB
Lesson 3: Solve Multistep Measurement Problems	<ol style="list-style-type: none">1. Multi-step problems with customary or metric unit conversions AMN

Module 19

Graphs and Patterns

Textbook section	IXL skills
Lesson 1: Describe a Coordinate System	<ol style="list-style-type: none">1. Describe the coordinate plane PF82. Objects on a coordinate plane NTR
Lesson 2: Understand Ordered Pairs	<ol style="list-style-type: none">1. Graph points on a coordinate plane AST2. Coordinate planes as maps ZBD
Lesson 3: Use Ordered Pairs to Represent Problems	<ol style="list-style-type: none">1. Graph points from a table HWV2. Analyze graphed relationships SMY
Lesson 4: Generate and Identify Numerical Patterns	<ol style="list-style-type: none">1. Use a rule to complete a number sequence RPP2. Compare patterns XPM
Lesson 5: Identify and Graph Relationships and Patterns	<ol style="list-style-type: none">1. Use a rule to complete a table and a graph N9B2. Number sequences: word problems R6C

Module 20

Classify Two-Dimensional Figures

Textbook section	IXL skills
Lesson 1: Identify and Classify Polygons	<ol style="list-style-type: none">1. Number of sides in polygons 4Z22. Regular and irregular polygons UHC
Lesson 2: Classify and Organize Triangles	<ol style="list-style-type: none">1. Classify triangles C64
Lesson 3: Classify and Organize Quadrilaterals	<ol style="list-style-type: none">1. Parallel sides in quadrilaterals AJV2. Classify quadrilaterals 6ZQ
Lesson 4: Use Venn Diagrams to Classify Two-Dimensional Figures	<ol style="list-style-type: none">1. Describe relationships among quadrilaterals SZT2. Sort polygons into Venn diagrams US8