



IXL Skill Alignment

5th grade alignment for enVisionMATH 2.0



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Topic 1

Understanding Place Value

Textbook section	IXL skills
Lesson 1-1: Patterns with Exponents and Powers of 10	1. Evaluate powers of ten XTY 2. Write powers of ten with exponents KGQ 3. Multiply a whole number by a power of ten: with exponents 92K <i>Also consider</i> • Understanding powers of ten 8HS
Lesson 1-2: Understanding Whole-Number Place Value	1. Convert between standard and expanded form HU7 2. Place value 83P <i>Also consider</i> • Writing numbers in words: convert words to digits EZT • Writing numbers in words: convert digits to words DZS
Lesson 1-3: Decimals to Thousandths	1. Convert between fractions and decimals Y7S 2. Relationship between decimal place values DVM <i>Also consider</i> • What decimal number is illustrated? CTP • Model decimals and fractions ZKL • Place values in decimal numbers X8U
Lesson 1-4: Understand Decimal Place Value	1. Convert decimals between standard and expanded form WTU 2. Equivalent decimals C2X <i>Also consider</i> • Understanding decimals expressed in words F9G

Lesson 1-5: Compare Decimals

1. Compare decimals on number lines CUF
2. Compare decimal numbers NSG
3. Put decimal numbers in order YUX

Also consider

- Compare decimals using grids QTG

Lesson 1-6: Round Decimals

1. Round decimals MPB

Also consider

- Compare, order, and round decimals: word problems 2MV

Lesson 1-7: Look For and Use Structure

1. Number sequences involving decimals H73

Topic 2

Add and Subtract Decimals to Hundredths

Textbook section	IXL skills
Lesson 2-1: Mental Math	1. Add using properties RZR
Lesson 2-2: Estimate Sums and Differences	1. Estimate sums and differences of decimals using rounding YGG <i>Also consider</i> Estimate sums and differences of decimals using benchmarks CHE
Lesson 2-3: Use Models to Add and Subtract Decimals	1. Add decimal numbers using blocks NWJ 2. Subtract decimal numbers using blocks V5T
Lesson 2-4: Add Decimals	1. Add decimal numbers BDX 2. Choose decimals with a particular sum 64R 3. Complete the decimal addition sentence 7KW
Lesson 2-5: Subtract Decimals	1. Subtract decimal numbers SC8 2. Choose decimals with a particular difference AMH 3. Complete the decimal subtraction sentence TWB
Lesson 2-6: Add and Subtract Decimals	1. Add and subtract decimal numbers 7VJ
Lesson 2-7: Model with Math	1. Add and subtract decimals: word problems 35U

Topic 3

Fluently Multiply Multi-Digit Whole Numbers

Textbook section	IXL skills
Lesson 3-1: Multiply Greater Numbers by Powers of 10	1. Multiplication patterns over increasing place values BCK <i>Also consider</i> - Multiply numbers ending in zeroes 3V9 - Multiply numbers ending in zeroes: word problems 8KY
Lesson 3-2: Estimate Products	1. Estimate products TKD 2. Estimate products: word problems 9JW
Lesson 3-3: Multiply 3-Digit by 2-Digit numbers	1. Multiply 2-digit numbers by 3-digit numbers JHB <i>Also consider</i> Multiply 2-digit numbers by 2-digit numbers LLJ
Lesson 3-4: Multiply Whole Numbers with Zeros	
Lesson 3-5: Multiply Multi-Digit Numbers	1. Multiply by 2-digit numbers: complete the missing steps 9LX 2. Multiply by 2-digit numbers 9X5
Lesson 3-6: Solve Word Problems Using Multiplication	1. Multiply multi-digit numbers: word problems JGX
Lesson 3-7: Critique Reasoning	1. Estimate products word problems: identify reasonable answers WP8 2. Multi-step word problems: identify reasonable answers NNJ

Topic 4

Use Models and Strategies to Multiply Decimals

Textbook section	IXL skills
Lesson 4-1: Multiply Decimals by Powers of 10	1. Multiply a decimal by a power of ten: with exponents 5KC 2. Multiply a decimal by a power of ten DN2 3. Multiply by a power of ten with decimals: find the missing number GC5
Lesson 4-2: Estimate the Product of a Decimal and a Whole Number	1. Estimate products of whole numbers and decimals Q6D
Lesson 4-3: Use Models to Multiply a Decimal and a Whole Number	1. Multiply a decimal by a one-digit whole number using blocks U5Q <i>Also consider</i> • Multiply a decimal by a two-digit whole number using area models VNT
Lesson 4-4: Multiply a Decimal by a Whole Number	1. Multiply a decimal by a one-digit whole number XNY 2. Multiply a decimal by a multi-digit whole number PGM 3. Multiply decimals and whole numbers: word problems 83A <i>Also consider</i> • Multiply a decimal by a one-digit whole number using the distributive property 9BA
Lesson 4-5: Use Models to Multiply a Decimal and a Decimal	1. Complete the decimal multiplication sentence using grids R9T
Lesson 4-6: Multiply Decimals Using Partial Products	1. Multiply decimals using grids 66Z
Lesson 4-7: Use Properties to Multiply Decimals	1. Multiply two decimals: products up to hundredths FLL

Lesson 4-8: Use Number Sense to Multiply Decimals

1. Multiply two decimals: where does the decimal point go? 6FA

Also consider

- Multiply money amounts H8K

Lesson 4-9: Multiply Decimals

1. Multiply two decimals: products up to thousandths TDG

Lesson 4-10: Model with Math

1. Multiply money amounts: word problems U5L
2. Multiply money amounts: multi-step word problems THS

Topic 5

Use Models and Strategies to Divide Whole Numbers

Textbook section	IXL skills
Lesson 5-1: Use Patterns and Mental Math to Divide	1. Division patterns over increasing place values 8Z6 2. Divide numbers ending in zeroes J8Y 3. Divide numbers ending in zeroes: word problems G66
Lesson 5-2: Estimate Quotients with 2-Digit Divisors	1. Estimate quotients: 2-digit divisors EFW <i>Also consider</i> • Estimate quotients: word problems HD6
Lesson 5-3: Use Models to Divide with 2-Digit Divisors	1. Divide by 2-digit numbers using models AJA
Lesson 5-4: Use Partial Quotients to Divide	1. Divide by 2-digit numbers using partial quotients ASM
Lesson 5-5: Divide by Multiples of 10	1. Divide numbers ending in zeroes by multiples of ten WJ6
Lesson 5-6: Use Estimation to Place the First Digit of the Quotient	1. Adjust quotients 5FH
Lesson 5-7: Divide by 2-Digit Divisors	1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA 2. Divide 4-digit numbers by 2-digit numbers 35K <i>Also consider</i> • Complete the division sentence: 2-digit divisors HMZ • Choose numbers with a particular quotient FBX
Lesson 5-8: Make Sense and Persevere	1. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW 2. Divide 4-digit numbers by 2-digit numbers: word problems J8L

Also consider

- Multi-step word problems: multiplicative comparison V59
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Topic 6

Use Models and Strategies to Divide Decimals

Textbook section	IXL skills
Lesson 6-1: Patterns for Dividing with Decimals	1. Divide by a power of ten: with exponents CL2 2. Decimal division patterns over increasing place values GBS 3. Divide by a power of ten with decimals: find the missing number R2P <i>Also consider</i> • Divide by powers of ten H2N
Lesson 6-2: Estimate Decimal Quotients	1. Estimate decimal quotients CZ9
Lesson 6-3: Use Models to Divide by a 1-Digit Whole Number	1. Divide decimals using blocks: complete the equation DDK
Lesson 6-4: Divide by a 1-Digit Whole Number	1. Divide whole numbers and decimals by one-digit whole numbers ECH 2. Divide whole numbers and decimals by one-digit whole numbers: word problems K7S
Lesson 6-5: Divide by a 2-Digit Whole Number	1. Divide decimals using area models: complete the equation RJ9 2. Divide whole numbers and decimals by two-digit whole numbers 8NX
Lesson 6-6: Use Number Sense to Divide Decimals	
Lesson 6-7: Divide by a Decimal	1. Divide by decimals without adding zeroes RTS
Lesson 6-8: Continue to Divide with Decimals	1. Divide by decimals 8FT
Lesson 6-9: Reasoning	1. Division with decimal quotients: word problems Z2X

Topic 7

Use Equivalent Fractions to Add and Subtract Fractions

Textbook section	IXL skills
Lesson 7-1: Estimate Sums and Differences of Fractions	1. Estimate sums and differences of fractions using benchmarks 9JR
Lesson 7-2: Find Common Denominators	1. Equivalent fractions MKA 2. Least common denominator R7P
Lesson 7-3: Add Fractions with Unlike Denominators	1. Add fractions with unlike denominators using models 2BS 2. Add fractions with unlike denominators D9N
Lesson 7-4: Subtract Fractions with Unlike Denominators	1. Subtract fractions with unlike denominators using models QA6 2. Subtract fractions with unlike denominators VSP
Lesson 7-5: Add and Subtract Fractions	1. Add and subtract fractions with unlike denominators XHE 2. Add 3 or more fractions with unlike denominators PBF 3. Add or subtract three fractions with unlike denominators 9Z4 <i>Also consider</i> • Add 3 or more fractions: word problems BFQ
Lesson 7-6: Estimate Sums and Differences of Mixed Numbers	1. Estimate sums and differences of mixed numbers HUJ
Lesson 7-7: Use Models to Add Mixed Numbers	1. Add mixed numbers with like denominators Y2L
Lesson 7-8: Add Mixed Numbers	1. Add mixed numbers with unlike denominators FHD
Lesson 7-9: Use Models to Subtract Mixed Numbers	1. Subtract mixed numbers with like denominators LPW
Lesson 7-10: Subtract Mixed Numbers	1. Subtract mixed numbers with unlike denominators FAA

Lesson 7-11: Add and Subtract Mixed Numbers

1. Add and subtract mixed numbers with unlike denominators RZC
2. Add and subtract mixed numbers: word problems 6BH

Also consider

- Complete addition and subtraction sentences with mixed numbers PSP

Lesson 7-12: Model with Math

1. Add and subtract fractions and mixed numbers: word problems UYY

Also consider

- Add and subtract fractions in recipes W9K

Topic 8

Apply Understanding of Multiplication to Multiply Fractions

Textbook section	IXL skills
Lesson 8-1: Use Models to Multiply a Whole Number by a Fraction	1. Multiply unit fractions by whole numbers using models AFS 2. Multiplying fractions by whole numbers: choose the model NKU 3. Multiply fractions by whole numbers using models: complete the equation VXF <i>Also consider</i> • Multiples of unit fractions: find the missing numbers MR5 • Multiples of fractions: find the missing numbers 5DT
Lesson 8-2: Use Models to Multiply a Fraction by a Whole Number	1. Multiply fractions by whole numbers using arrays RB9 2. Multiply fractions by whole numbers: input/output tables 2KU 3. Fractions of a number II 8DG <i>Also consider</i> • Multiply fractions by whole numbers using number lines DRU
Lesson 8-3: Multiply Fractions and Whole Numbers	1. Multiply fractions by whole numbers I QFQ 2. Multiply fractions by whole numbers II 69L 3. Multiply fractions by whole numbers: word problems U2V
Lesson 8-4: Use Models to Multiply Two Fractions	1. Multiply two unit fractions using models HDJ 2. Multiply two fractions using models UAY <i>Also consider</i> • Multiply two fractions using models: fill in the missing factor AT7

Lesson 8-5: Multiply Two Fractions

1. Multiply two fractions 8KV

Also consider

- Multiply two fractions: word problems 38Y
- Complete the fraction multiplication sentence I S6G

Lesson 8-6: Area of a Rectangle

1. Understand fraction multiplication and area NFK
2. Multiply fractions to find area SEZ

Lesson 8-7: Multiply Mixed Numbers

1. Estimate products of mixed numbers 76Y
2. Multiply with mixed numbers using area models WVR
3. Multiply mixed numbers XSE

Also consider

- 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

Lesson 8-8: Multiplication as Scaling

1. Scaling whole numbers by fractions: justify your answer Q7M
2. Scaling by fractions 6NW

Lesson 8-9: Make Sense and Persevere

1. Multiplication with mixed numbers: word problems 5W6
2. Multiply fractions and mixed numbers in recipes QHN

Topic 9

Apply Understanding of Division to Divide Fractions

Textbook section	IXL skills
Lesson 9-1: Fractions and Division	1. Understand fractions as division: word problems EWS
Lesson 9-2: Fractions and Mixed Numbers as Quotients	1. Relate division and fractions D86 2. Understand mixed numbers as division: word problems A9T
Lesson 9-3: Use Multiplication to Divide	1. Divide whole numbers by unit fractions using models VDU
Lesson 9-4: Divide Whole Numbers by Unit Fractions	1. Divide whole numbers by unit fractions 3L9
Lesson 9-5: Divide Unit Fractions by Non-Zero Whole Numbers	1. Divide unit fractions by whole numbers using models XML 2. Divide unit fractions by whole numbers GXY
Lesson 9-6: Divide Whole Numbers and Unit Fractions	1. Divide unit fractions and whole numbers using area models A7W 2. Divide unit fractions and whole numbers SPB
Lesson 9-7: Solve Problems Using Division	1. Divide unit fractions and whole numbers: word problems G2N
Lesson 9-8: Repeated Reasoning	1. Add, subtract, multiply, and divide fractions and mixed numbers: word problems APD

Topic 10

Understand Volume Concepts

Textbook section	IXL skills
Lesson 10-1: Model Volume	1. Volume of rectangular prisms made of unit cubes WG8 2. Volume of irregular figures made of unit cubes WCE
Lesson 10-2: Develop a Volume Formula	1. Relationship between volume and the area of the base: word problems QMA
Lesson 10-3: Volumes of Prisms	1. Volume of cubes and rectangular prisms TFL
Lesson 10-4: Combine Volume of Prisms	1. Volume of compound figures J83
Lesson 10-5: Solve Word Problems Using Volume	1. Volume of cubes and rectangular prisms: word problems NR6
Lesson 10-6: Use Appropriate Tools	1. Compare volumes and dimensions of rectangular prisms: word problems JP6

Topic 11

Convert Measurements

Textbook section	IXL skills
Lesson 11-1: Convert Customary Units of Length	1. Compare and convert customary units of length 7E8 2. Convert customary units of length involving fractions H63
Lesson 11-2: Convert Customary Units of Capacity	1. Compare and convert customary units of volume F2K 2. Convert customary units of volume involving fractions KSW
Lesson 11-3: Convert Customary Units of Weight	1. Compare and convert customary units of weight XST 2. Convert customary units of weight involving fractions BCW
Lesson 11-4: Convert Metric Units of Length	1. Compare and convert metric units of length 8MZ 2. Convert metric units of length involving decimals 7CM
Lesson 11-5: Convert Metric Units of Capacity	1. Compare and convert metric units of volume 27C 2. Convert metric units of volume involving decimals HG2
Lesson 11-6: Convert Metric Units of Mass	1. Compare and convert metric units of weight TM9 2. Convert metric units of weight involving decimals PJ9
Lesson 11-7: Solve Word Problems Using Measurement Conversions	1. Multi-step problems with customary unit conversions MJ9 2. Multi-step problems with metric unit conversions X5T
Lesson 11-8: Precision	1. Multi-step problems with customary or metric unit conversions ST6

Topic 12

Represent and Interpret Data

Textbook section	IXL skills
Lesson 12-1: Analyze Line Plots	1. Interpret line plots 79C
Lesson 12-2: Make Line Plots	1. Create line plots ZBV
Lesson 12-3: Solve Word Problems Using Measurement Data	1. Create and interpret line plots with fractions XBS 2. Interpret frequency charts: one-step problems UEK <i>Also consider</i> - Interpret frequency charts: multi-step problems NJ7 - Create frequency charts V7F
Lesson 12-4: Critique Reasoning	

Topic 13

Write and Interpret Numerical Expressions

Textbook section	IXL skills
Lesson 13-1: Order of Operations	1. Evaluate numerical expressions Z5N
Lesson 13-2: Evaluate Expressions	1. Order of operations: 4 or 5 terms NHM 2. Identify mistakes involving the order of operations JLJ <i>Also consider</i> Evaluate numerical expressions with parentheses in different places 9F5
Lesson 13-3: Write Numerical Expressions	1. Write numerical expressions: one operation SCJ 2. Write numerical expressions: two operations 8ME 3. Write numerical expressions for word problems NF5
Lesson 13-4: Interpret Numerical Expressions	1. Missing operators 8TJ
Lesson 13-5: Reasoning	1. Multi-step word problems Z76 <i>Also consider</i> Add, subtract, multiply, and divide whole numbers: word problems SNZ

Topic 14

Graph Points on the Coordinate Plane

Textbook section	IXL skills
Lesson 14-1: The Coordinate System	1. Describe the coordinate plane PF8 2. Objects on a coordinate plane NTR
Lesson 14-2: Graph Data Using Ordered Pairs	1. Graph points on a coordinate plane AST
Lesson 14-3: Solve Problems Using Ordered Pairs	1. Graph points from a table HWV 2. Use a rule to complete a table and a graph N9B
Lesson 14-4: Reasoning	1. Analyze graphed relationships SMY

Topic 15

Algebra: Analyze Patterns and Relationships

Textbook section	IXL skills
Lesson 15-1: Numerical Patterns	1. Use a rule to complete a number sequence RPP
Lesson 15-2: More Numerical Patterns	1. Complete a table for a two-variable relationship MZV 2. Compare patterns XPM
Lesson 15-3: Analyze and Graph Relationships	1. Graph patterns using rules PN2 <i>Also consider</i> Graph a two-variable relationship QEH
Lesson 15-4: Make Sense and Persevere	1. Find the rule from a table: word problems PN6 <i>Also consider</i> Complete a table from a graph 2WL

Topic 16

Geometric Measurement: Classify Two-Dimensional Figures

Textbook section	IXL skills
Lesson 16-1: Classify Triangles	1. Acute, obtuse, and right triangles N77 2. Scalene, isosceles, and equilateral triangles R94 3. Classify triangles C64
Lesson 16-2: Classify Quadrilaterals	1. Names of quadrilaterals EF7 2. Classify quadrilaterals 6ZQ <i>Also consider</i> • Parallel sides in quadrilaterals AJV • Draw quadrilaterals VYE
Lesson 16-3: Continue to Classify Quadrilaterals	1. Describe relationships among quadrilaterals SZT
Lesson 16-4: Construct Arguments	1. Identify the relationships between quadrilaterals KCG