



IXL Skill Alignment

Grade 5 alignment for enVision Mathematics Common Core



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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

Also consider

- 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

Also consider

- 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

Also consider

- 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

Also consider

- 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
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Topic 2

Use Models and Strategies to Add and Subtract Decimals

Textbook section	IXL skills
Lesson 2-1: Mental Math	<ul style="list-style-type: none"> <i>Coming soon:</i> Use mental math to find the sum or difference of decimals <p><i>Also consider</i></p> <ul style="list-style-type: none"> Add using properties RZR
Lesson 2-2: Estimate Sums and Differences of Decimals	<ol style="list-style-type: none"> Estimate sums and differences of decimals using rounding YGG <p><i>Also consider</i></p> <ul style="list-style-type: none"> Estimate sums and differences of decimals using benchmarks CHE
Lesson 2-3: Use Models to Add and Subtract Decimals	<ul style="list-style-type: none"> <i>Coming soon:</i> Add decimals using models
Lesson 2-4: Use Strategies to Add Decimals	<ol style="list-style-type: none"> Add decimal numbers using blocks NWJ Add decimal numbers BDX Choose decimals with a particular sum 64R Complete the decimal addition sentence 7KW
Lesson 2-5: Use Strategies to Subtract Decimals	<ol style="list-style-type: none"> Subtract decimal numbers SC8 Choose decimals with a particular difference AMH Complete the decimal subtraction sentence TWB <p><i>Also consider</i></p> <ul style="list-style-type: none"> Add and subtract decimal numbers 7VJ
Lesson 2-6: Model with Math	<ol style="list-style-type: none"> 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> <ul style="list-style-type: none"> 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 by 1-Digit Numbers	1. Multiply by 1-digit numbers 7H4 2. Multiply by 1-digit numbers: word problems 94W
Lesson 3-4: Multiply 2-Digit by 2-Digit Numbers	1. Multiply 2-digit numbers by 2-digit numbers using area models AMJ 2. Multiply 2-digit numbers by 2-digit numbers LLJ
Lesson 3-5: Multiply 3-Digit by 2-Digit numbers	1. Multiply 2-digit numbers by 3-digit numbers JHB
Lesson 3-6: Multiply Whole Numbers with Zeros	<ul style="list-style-type: none"> <i>Coming soon:</i> Multiplying with zeroes
Lesson 3-7: Practice Multiplying Multi-Digit Numbers	1. Multiply by 2-digit numbers: complete the missing steps 9LX 2. Multiply by 2-digit numbers 9X5
Lesson 3-8: Solve Word Problems Using Multiplication	1. Multiply multi-digit numbers: word problems JGX
Lesson 3-9: 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Estimate products of whole numbers and decimals Q6D
Lesson 4-3: Use Models to Multiply a Decimal by a Whole Number	<ol style="list-style-type: none"> 1. Multiply a decimal by a one-digit whole number using blocks U5Q <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply a decimal by a two-digit whole number using area models VNT
Lesson 4-4: Multiply a Decimal and a Whole Number	<ol style="list-style-type: none"> 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 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • 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	<ol style="list-style-type: none"> 1. Complete the decimal multiplication sentence using grids R9T
Lesson 4-6: Multiply Decimals Using Partial Products	<ol style="list-style-type: none"> 1. Multiply decimals using grids 66Z 2. Multiply two decimals: products up to hundredths FLL
Lesson 4-7: Use Properties to Multiply Decimals	<ol style="list-style-type: none"> 1. Multiply two decimals: products up to thousandths TDG

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
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Lesson 4-9: Model with Math

1. Multiply money amounts: word problems U5L
 2. Multiply money amounts: multi-step word problems THS
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Topic 5

Use Models and Strategies to Divide Whole Numbers

Textbook section	IXL skills
Lesson 5-1: Use Patterns and Mental Math to Divide	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Estimate quotients: 2-digit divisors EFW <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Estimate quotients: word problems HD6
Lesson 5-3: Use Models and Properties to Divide with 2-Digit Divisors	<ol style="list-style-type: none"> 1. Divide by 2-digit numbers using models AJA
Lesson 5-4: Use Partial Quotients to Divide	<ol style="list-style-type: none"> 1. Divide by 2-digit numbers using partial quotients ASM
Lesson 5-5: Use Sharing to Divide: 2-Digit Divisors	<ol style="list-style-type: none"> 1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA 2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW
Lesson 5-6: Use Sharing to Divide: Greater Dividends	<ol style="list-style-type: none"> 1. Divide 4-digit numbers by 2-digit numbers 35K 2. Adjust quotients 5FH
Lesson 5-7: Choose a Strategy to Divide	<ol style="list-style-type: none"> 1. Complete the division sentence: 2-digit divisors HMZ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Choose numbers with a particular quotient FBX
Lesson 5-8: Make Sense and Persevere	<ol style="list-style-type: none"> 1. Divide 4-digit numbers by 2-digit numbers: word problems J8L <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multi-step word problems: multiplicative comparison V59

Topic 6

Use Models and Strategies to Divide Decimals

Textbook section	IXL skills
Lesson 6-1: Patterns for Dividing with Decimals	<ol style="list-style-type: none"> 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 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Divide by powers of ten H2N
Lesson 6-2: Estimate Decimal Quotients	<ol style="list-style-type: none"> 1. Estimate decimal quotients CZ9
Lesson 6-3: Use Models to Divide by a 1-Digit Whole Number	<ol style="list-style-type: none"> 1. Divide decimals using blocks: complete the equation DDK
Lesson 6-4: Divide by a 2-Digit Whole Number	<ol style="list-style-type: none"> 1. Divide decimals using area models: complete the equation U6C 2. Division with decimal quotients J9Z
Lesson 6-5: Divide by a Decimal	<ol style="list-style-type: none"> 1. Divide by decimals without adding zeroes RTS
Lesson 6-6: Reasoning	<ol style="list-style-type: none"> 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
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Lesson 7-12: Model with Math

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

Also consider

- Add and subtract fractions in recipes W9K
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Topic 8

Apply Understanding of Multiplication to Multiply Fractions

Textbook section	IXL skills
Lesson 8-1: Multiply a Fraction by a Whole Number	<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 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Multiples of unit fractions: find the missing numbers MR5 Multiples of fractions: find the missing numbers 5DT
Lesson 8-2: Multiply a Whole Number by a Fraction	<ol style="list-style-type: none"> Multiply fractions by whole numbers using arrays RB9 Multiply fractions by whole numbers: input/output tables 2KU Fractions of a number II 8DG <p><i>Also consider</i></p> <ul style="list-style-type: none"> Multiply fractions by whole numbers using number lines DRU
Lesson 8-3: Multiply Fractions and Whole Numbers	<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 8-4: Use Models to Multiply Two Fractions	<ol style="list-style-type: none"> Multiply two unit fractions using models HDJ Multiply two fractions using models UAY <p><i>Also consider</i></p> <ul style="list-style-type: none"> 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 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 whole numbers and unit fractions 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

Represent and Interpret Data

Textbook section	IXL skills
Lesson 10-1: Analyze Line Plots	1. Interpret line plots 79C
Lesson 10-2: Make Line Plots	1. Create line plots ZBV
Lesson 10-3: Solve Word Problems Using Measurement Data	<ol style="list-style-type: none">1. Create and interpret line plots with fractions XBS2. Interpret frequency charts: one-step problems UEK <p><i>Also consider</i></p> <ul style="list-style-type: none">• Interpret frequency charts: multi-step problems NJ7• Create frequency charts V7F
Lesson 10-4: Critique Reasoning	

Topic 11

Understand Volume Concepts

Textbook section	IXL skills
Lesson 11-1: Model Volume	<ol style="list-style-type: none">1. Volume of rectangular prisms made of unit cubes <small>WG8</small>2. Volume of irregular figures made of unit cubes <small>WCE</small>
Lesson 11-2: Develop a Volume Formula	<ol style="list-style-type: none">1. Volume of cubes and rectangular prisms <small>TFL</small>2. Relationship between volume and the area of the base: word problems <small>QMA</small>
Lesson 11-3: Combine Volume of Prisms	<ol style="list-style-type: none">1. Volume of compound figures <small>J83</small>
Lesson 11-4: Solve Word Problems Using Volume	<ol style="list-style-type: none">1. Volume of cubes and rectangular prisms: word problems <small>NR6</small>
Lesson 11-5: Use Appropriate Tools	<ol style="list-style-type: none">1. Compare volumes and dimensions of rectangular prisms: word problems <small>JP6</small>

Topic 12

Convert Measurements

Textbook section	IXL skills
Lesson 12-1: Convert Customary Units of Length	<ol style="list-style-type: none"> 1. Compare and convert customary units of length <small>7E8</small> 2. Convert customary units of length involving fractions <small>H63</small>
Lesson 12-2: Convert Customary Units of Capacity	<ol style="list-style-type: none"> 1. Compare and convert customary units of volume <small>F2K</small> 2. Convert customary units of volume involving fractions <small>KSW</small>
Lesson 12-3: Convert Customary Units of Weight	<ol style="list-style-type: none"> 1. Compare and convert customary units of weight <small>XST</small> 2. Convert customary units of weight involving fractions <small>BCW</small>
Lesson 12-4: Convert Metric Units of Length	<ol style="list-style-type: none"> 1. Compare and convert metric units of length <small>8MZ</small> 2. Convert metric units of length involving decimals <small>7CM</small>
Lesson 12-5: Convert Metric Units of Capacity	<ol style="list-style-type: none"> 1. Compare and convert metric units of volume <small>27C</small> 2. Convert metric units of volume involving decimals <small>HG2</small>
Lesson 12-6: Convert Metric Units of Mass	<ol style="list-style-type: none"> 1. Compare and convert metric units of weight <small>TM9</small> 2. Convert metric units of weight involving decimals <small>PJ9</small>
Lesson 12-7: Convert Units of Time	<ol style="list-style-type: none"> 1. Convert units of time <small>NRD</small>
Lesson 12-8: Solve Word Problems Using Measurement Conversions	<ol style="list-style-type: none"> 1. Multi-step problems with customary unit conversions <small>MJ9</small> 2. Multi-step problems with metric unit conversions <small>X5T</small>
Lesson 12-9: Precision	<ol style="list-style-type: none"> 1. Multi-step problems with customary or metric unit conversions <small>ST6</small>

Topic 13

Write and Interpret Numerical Expressions

Textbook section	IXL skills
Lesson 13-1: Evaluate Expressions	<ol style="list-style-type: none">1. Order of operations: 4 or 5 terms NHM2. Identify mistakes involving the order of operations JLJ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Evaluate numerical expressions with parentheses in different places 9F5
Lesson 13-2: Write Numerical Expressions	<ol style="list-style-type: none">1. Write numerical expressions: one operation SCJ2. Write numerical expressions: two operations 8ME
Lesson 13-3: Interpret Numerical Expressions	<ol style="list-style-type: none">1. Missing operators 8TJ
Lesson 13-4: Reasoning	<ol style="list-style-type: none">1. Multi-step word problems Z76 <p><i>Also consider</i></p> <ul style="list-style-type: none">• 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	<ol style="list-style-type: none">1. Describe the coordinate plane PF82. Objects on a coordinate plane NTR
Lesson 14-2: Graph Data Using Ordered Pairs	<ol style="list-style-type: none">1. Graph points on a coordinate plane AST
Lesson 14-3: Solve Problems Using Ordered Pairs	<ol style="list-style-type: none">1. Graph points from a table HWV2. Use a rule to complete a table and a graph N9B
Lesson 14-4: Reasoning	<ol style="list-style-type: none">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> <ul style="list-style-type: none">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> <ul style="list-style-type: none">Complete a table from a graph 2WL

Topic 16

Geometric Measurement: Classify Two-Dimensional Figures

Textbook section	IXL skills
Lesson 16-1: Classify Triangles	<ol style="list-style-type: none">1. Acute, obtuse, and right triangles N772. Scalene, isosceles, and equilateral triangles R943. Classify triangles C64
Lesson 16-2: Classify Quadrilaterals	<ol style="list-style-type: none">1. Names of quadrilaterals EF72. Classify quadrilaterals 6ZQ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Parallel sides in quadrilaterals AJV• Draw quadrilaterals VYE
Lesson 16-3: Continue to Classify Quadrilaterals	<ol style="list-style-type: none">1. Describe relationships among quadrilaterals SZT
Lesson 16-4: Construct Arguments	<ol style="list-style-type: none">1. Identify the relationships between quadrilaterals KCG