



IXL Skill Alignment

4th grade alignment for enVisionMATH 2.0 Common Core Edition



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Topic 1

Generalize Place Value Understanding

Textbook section	IXL skills
1-1: Numbers Through One Million	<ol style="list-style-type: none"> Convert between standard and expanded form: up to 1,000,000 4R6 Writing numbers up to one million in words: convert digits to words 7WT <p><i>Also consider</i></p> <ul style="list-style-type: none"> Writing numbers up to one million in words: convert words to digits 5G4 Spell word names for numbers up to one million 2PZ Place value word problems Z47
1-2: Place Value Relationships	<ol style="list-style-type: none"> Relationship between place values: 10 times as much 9DJ Value of a digit YAV <p><i>Also consider</i></p> <ul style="list-style-type: none"> Convert between place values: up to hundred thousands D7G Identify place value names to hundred thousands J5M Place value review B5N
1-3: Compare Whole Numbers	<ol style="list-style-type: none"> Compare numbers up to one million 6Y2 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Missing digits in inequalities USN Order numbers up to one million 94E
1-4: Round Whole Numbers	<ol style="list-style-type: none"> Rounding: up to hundred thousands place QV7 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Rounding input/output tables CT2



1-5: Construct Arguments

1. Compare numbers in tables EFV

Also consider

- Rounding puzzles XVJ
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Topic 2

Fluently Add and Subtract Multi-Digit Whole Numbers

Textbook section	IXL skills
2-1: Mental Math: Find Sums and Differences	1. Add using properties D7B <i>Also consider</i> <ul style="list-style-type: none"> Properties of addition D9R Add and subtract whole numbers up to three digits Q8M
2-2: Mental Math: Estimate Sums and Differences	1. Estimate sums: up to six digits DU5 2. Estimate differences: up to six digits 5TQ <i>Also consider</i> <ul style="list-style-type: none"> Estimate sums: word problems up to six digits 5F9 Estimate differences: word problems GWS
2-3: Add Whole Numbers	1. Add numbers up to six digits 26W 2. Add two numbers up to six digits: word problems X8G 3. Add three numbers up to six digits each KTH <i>Also consider</i> <ul style="list-style-type: none"> Addition: find the missing digits ERL
2-4: Subtract Whole Numbers	1. Subtract numbers up to six digits TSJ 2. Subtract numbers up to six digits: word problems WLN <i>Also consider</i> <ul style="list-style-type: none"> Subtraction: find the missing digits YPD
2-5: Subtract Across Zeros	1. Subtract across zeros LZZ
2-6: Reasoning	1. Multi-step addition and subtraction word problems CZM 2. Comparison word problems with addition and subtraction RJJ

Topic 3

Use Strategies and Properties to Multiply by 1-Digit Numbers

Textbook section	IXL skills
3-1: Mental Math: Multiply by Multiples of 10, 100, and 1,000	<ol style="list-style-type: none"> Multiplication patterns over increasing place values: up to thousands W6B Multiply by multiples of 10, 100, and 1,000 2RP
3-2: Mental Math: Round to Estimate Products	<ol style="list-style-type: none"> Estimate products: multiply by 1-digit numbers WDG
3-3: The Distributive Property	<ol style="list-style-type: none"> Distributive property: find the missing factor US7 Multiply using the distributive property DN8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Multiply 1-digit numbers by 3-digit or 4-digit numbers using expanded form SEG Multiply 1-digit numbers by 3-digit or 4-digit numbers using area models I RP9 Multiply 1-digit numbers by 3-digit or 4-digit numbers using area models II WKL
3-4: Mental Math Strategies for Multiplication	<ol style="list-style-type: none"> Multiply using properties YR9 Use compensation to multiply 1-digit numbers by 2-digit numbers 5C8 <p><i>Also consider</i></p> <ul style="list-style-type: none"> Properties of multiplication B6N
3-5: Arrays and Partial Products	<ol style="list-style-type: none"> Multiply 1-digit numbers by multi-digit numbers using partial products 23C
3-6: Use Partial Products to Multiply 1-digit Numbers	<ol style="list-style-type: none"> Multiply 1-digit numbers by 2-, 3-, or 4-digit numbers: horizontal multiplication CA7
3-7: Multiply 2- and 3-Digit Numbers by 1-Digit Numbers	<ol style="list-style-type: none"> Multiply 1-digit numbers by 2- or 3-digit numbers VR5 Multiply 1-digit numbers by 2- or 3-digit numbers: word problems SSA



3-8: Multiply 4-Digit by 1-Digit Numbers

1. Multiply 1-digit by 4-digit numbers H7A
 2. Multiply 1-digit by 4-digit numbers: word problems CJW
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3-9: Multiply by 1-Digit Numbers

1. Multiply 1-digit numbers by 2-, 3-, or 4-digit numbers QKA
 2. Multiply 1-digit numbers by 2-, 3-, or 4-digit numbers: word problems G7M
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3-10: Model with Math

Topic 4

Use Strategies and Properties to Multiply by 2-Digit Numbers

Textbook section	IXL skills
4-1: Mental Math: Multiply Multiples of 10	1. Multiply two multiples of ten A6Y
4-2: Use Models to Multiply 2-Digit Numbers by Multiples of 10	1. Multiply a two-digit number by a multiple of ten YJH
4-3: Estimate: Use Rounding	1. Estimate products of two-digit numbers NGV 2. Estimate products of two-digit numbers: word problems 9HH
4-4: Estimate: Use Compatible Numbers	1. Estimate products word problems: identify reasonable answers KLA
4-5: Arrays and Partial Products	1. Multiply 2-digit numbers by 2-digit numbers using area models I ASZ 2. Multiply 2-digit numbers by 2-digit numbers using area models II 8K7
4-6: Multiply Using the Distributive Property	1. Multiply 2-digit numbers by 2-digit numbers using the distributive property URU <i>Also consider</i> • Box multiplication ERB
4-7: Use Partial Products to Multiply by 2-Digit Numbers	1. Multiply 2-digit numbers by 2-digit numbers using partial products XLZ
4-8: Multiply 2-Digit Numbers by Multiples of 10	1. Multiply a two-digit number by a multiple of ten II 9ZN
4-9: Multiply 2-Digit Numbers by 2-Digit Numbers	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
4-10: Continue to Multiply by 2-Digit Numbers	1. Multiply a 2-digit number by a 2-digit number: word problems GZG 2. Review: Multiply a 2-digit number by a 2-digit number WBM



4-11: Make Sense and Persevere

Topic 5

Use Strategies and Properties to Divide by 1-Digit Numbers

Textbook section	IXL skills
5-1: Mental Math: Find Quotients	<ol style="list-style-type: none"> 1. Division patterns over increasing place values: up to thousands 7FH 2. Divide numbers ending in zeroes by 1-digit numbers M7J
5-2: Mental Math: Estimate Quotients	<ol style="list-style-type: none"> 1. Estimate quotients using compatible numbers: 1-digit divisors CWE
5-3: Mental Math: Estimate Quotients for Greater Dividends	<ol style="list-style-type: none"> 1. Estimate quotients MPG 2. Estimate quotients: word problems VC2
5-4: Interpret Remainders	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers: quotients up to 10 7BS 2. One-step word problems involving remainders PYQ
5-5: Division as Sharing	<ol style="list-style-type: none"> 1. Write division sentences for arrays 8QG 2. Divide 2-digit numbers by 1-digit numbers using arrays M49
5-6: Use Partial Quotients to Divide	<ol style="list-style-type: none"> 1. Divide 2-digit numbers by 1-digit numbers using partial quotients BTM <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Divide 2-digit numbers by 1-digit numbers using area models 7LG
5-7: Use Partial Quotients to Divide: Greater Dividends	<ol style="list-style-type: none"> 1. Divide using partial quotients with remainders EGL <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Divide 3-digit numbers by 1-digit numbers using area models 6UL
5-8: Divide with 1-Digit Numbers	<ol style="list-style-type: none"> 1. Divide 2- and 3-digit numbers by 1-digit numbers 5FE 2. Divide 2- and 3-digit numbers by 1-digit numbers: word problems JYD

Also consider

- Divide 2-digit numbers by 1-digit numbers: complete the table UFM

5-9: Continue to Divide with 1-Digit Numbers

1. Divide 4-digit numbers by 1-digit numbers TK9
2. Divide 4-digit numbers by 1-digit numbers: word problems J6A

Also consider

- Divide larger numbers by 1-digit numbers: complete the table 2UB

5-10: Model with Math

1. Multi-step word problems involving remainders SLS
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Topic 6

Use Operations with Whole Numbers to Solve Problems

Textbook section	IXL skills
6-1: Solve Comparison Situations	<ol style="list-style-type: none"> 1. Compare numbers using multiplication GGE 2. Comparison word problems: addition or multiplication? YCW
6-2: Continue to Solve Comparison Situations	<ol style="list-style-type: none"> 1. Compare numbers using multiplication: word problems QKB
6-3: Solve Multi-Step Problems	<ol style="list-style-type: none"> 1. Use strip diagrams to represent and solve multi-step word problems G8Z 2. Multi-step word problems with strip diagrams CZQ
6-4: Solve More Multi-Step Problems	<ol style="list-style-type: none"> 1. Multi-step word problems I U58 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multi-step word problems: identify reasonable answers K6X • Word problems with extra or missing information X64
6-5: Make Sense and Persevere	<ol style="list-style-type: none"> 1. Multi-step word problems II R8U

Topic 7

Factors and Multiples

Textbook section	IXL skills
7-1: Understand Factors	1. Find a factor N6R
7-2: Factors	1. Identify factors PWS <i>Also consider</i> <ul style="list-style-type: none">Choose numbers with a particular product U9N
7-3: Repeated Reasoning	1. Find all the factor pairs of a number URL
7-4: Prime and Composite Numbers	1. Prime and composite: up to 100 L9R
7-5: Multiples	1. Choose the multiples of a given number up to 10 EFB

Topic 8

Extend Understanding of Fraction Equivalence and Ordering

Textbook section	IXL skills
8-1: Equivalent Fractions: Area Models	1. Find equivalent fractions using area models <small>HYC</small>
8-2: Equivalent Fractions: Number Lines	1. Graph equivalent fractions on number lines <small>WQL</small> 2. Identify equivalent fractions using number lines <small>CLW</small>
8-3: Generate Equivalent Fractions: Multiplication	1. Equivalent fractions: find the missing numerator or denominator <small>7CY</small> 2. Patterns of equivalent fractions <small>7LH</small>
8-4: Generate Equivalent Fractions: Division	1. Identify equivalent fractions <small>GSG</small>
8-5: Use Benchmarks to Compare Fractions	1. Benchmark fractions <small>LUS</small> 2. Compare fractions using benchmarks <small>EHJ</small> <i>Also consider</i> • Compare fractions using benchmarks: find the missing numerator <small>UKZ</small>
8-6: Compare Fractions	1. Graph and compare fractions using number lines <small>M8N</small> 2. Compare fractions <small>99U</small> <i>Also consider</i> • Compare fractions using models <small>7XF</small> • Graph and order fractions on number lines <small>7GK</small>
8-7: Construct Arguments	1. Compare proper fractions in recipes <small>7C4</small>

Topic 9

Understand Addition and Subtraction of Fractions

Textbook section	IXL skills
9-1: Model Addition of Fractions	<ol style="list-style-type: none"> 1. Add fractions with like denominators: pick the model EMQ 2. Add fractions with like denominators using strip models Z63 3. Add fractions with like denominators using number lines 6QH <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add fractions with like denominators using area models Y5W
9-2: Decompose Fractions	<ol style="list-style-type: none"> 1. Decompose fractions N2Z 2. Decompose fractions multiple ways UEW <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify mixed numbers UX6
9-3: Add Fractions with Like Denominators	<ol style="list-style-type: none"> 1. Add fractions with like denominators PDU
9-4: Model Subtraction of Fractions	<ol style="list-style-type: none"> 1. Subtract fractions with like denominators: pick the model PXZ 2. Subtract fractions with like denominators using strip models QAS 3. Subtract fractions with like denominators using number lines MJX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract fractions with like denominators using area models P99
9-5: Subtract Fractions with Like Denominators	<ol style="list-style-type: none"> 1. Subtract fractions with like denominators AVF
9-6: Add and Subtract Fractions with Like Denominators	<ol style="list-style-type: none"> 1. Add and subtract fractions with like denominators using number lines GAK 2. Add and subtract fractions with like denominators FXD

9-7: Estimate Fraction Sums and Differences

1. Determine whether the sum or difference of two fractions is reasonable 6GG
2. Estimate sums and differences of fractions using benchmarks QL5

Also consider

- Benchmark fractions LUS

9-8: Model Addition and Subtraction of Mixed Numbers

1. Add and subtract mixed numbers with like denominators I CSJ

9-9: Add Mixed Numbers

1. Add mixed numbers AXT

9-10: Subtract Mixed Numbers

1. Subtract mixed numbers SLQ

Also consider

- Add and subtract mixed numbers with like denominators II QRB
- Break apart fractions and mixed numbers to add or subtract S9V

9-11: Model with Math

1. Add and subtract fractions with like denominators: word problems XBR
2. Add and subtract mixed numbers with like denominators: word problems 6KM
3. Add and subtract mixed numbers with like denominators in recipes YB5

Topic 10

Extend Multiplication Concepts to Fractions

Textbook section	IXL skills
10-1: Fractions as Multiplies of Unit Fractions: Use Models	<ol style="list-style-type: none"> 1. Multiply unit fractions by whole numbers using number lines XKJ 2. Multiples of unit fractions: find the missing numbers VYG 3. Multiply unit fractions by whole numbers EXQ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply unit fractions by whole numbers using models 8J3 • Multiply unit fractions by whole numbers: word problems DSB
10-2: Multiply a Fraction by a Whole Number: Use Models	<ol style="list-style-type: none"> 1. Multiply fractions by whole numbers using number lines Q7B 2. Multiply fractions by whole numbers using models Y5C 3. Multiply fractions by whole numbers using models: complete the equation CZ7
10-3: Multiply a Fraction by a Whole Number: Use Symbols	<ol style="list-style-type: none"> 1. Multiply fractions by whole numbers JLH <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Multiply fractions by whole numbers: sorting X48
10-4: Multiply a Whole Number and a Mixed Number	<ol style="list-style-type: none"> 1. Multiply mixed numbers by whole numbers M2K
10-5: Solve Time Problems	<ol style="list-style-type: none"> 1. Convert units of time QDA 2. Convert mixed time units K2S 3. Add and subtract mixed time units VD2
10-6: Model with Math	<ol style="list-style-type: none"> 1. Multiply fractions by whole numbers: word problems LX8 2. Multiply fractions and mixed numbers by whole numbers in recipes 7B3



Also consider

- Write variable equations to represent word problems 5SJ
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Topic 11

Represent and Interpret Data on Line Plots

Textbook section	IXL skills
11-1: Read line plots	1. Interpret line plots G8K
11-2: Create line plots	1. Create line plots with fractions G5S
11-3: Use Line Plots to Solve Problems	1. Create and interpret line plots with fractions I 6JV
11-4: Critique Reasoning	1. Create and interpret line plots with fractions II 4D9

Topic 12

Understand and Compare Decimals

Textbook section	IXL skills
12-1: Fractions and Decimals	<ol style="list-style-type: none"> 1. Model decimals and fractions TPV 2. Convert fractions and mixed numbers to decimals - denominators of 10 and 100 6P7 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • What decimal number is illustrated? B7E
12-2: Fractions and Decimals on the Number Line	<ol style="list-style-type: none"> 1. Graph decimals on number lines N93 2. Decimal number lines EWY 3. Graph fractions as decimals on number lines 2N9
12-3: Compare Decimals	<ol style="list-style-type: none"> 1. Compare decimals using models CV7 2. Compare decimal numbers DY5 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Compare money amounts EAL • Compare decimals on number lines T2W
12-4: Add Fractions with Denominators of 10 or 100	<ol style="list-style-type: none"> 1. Add fractions: denominators 10 and 100 9RJ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify fraction expressions with a particular sum: denominators of 10 and 100 TZH
12-5: Solve Word Problems Involving Money	<ol style="list-style-type: none"> 1. Add and subtract money amounts: word problems JMM 2. Find the change, price, or amount paid RTE <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Price lists with addition and subtraction 92H
12-6: Look For and Use Structure	<ol style="list-style-type: none"> 1. Decimal number lines II K5N



Also consider

- Add and subtract money amounts: multi-step word problems UGK
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Topic 13

Measurement: Find Equivalence in Units of Measure

Textbook section	IXL skills
13-1: Equivalence with Customary Units of Length	1. Convert customary units of length ZGG <i>Also consider</i> <ul style="list-style-type: none"> Conversion tables: customary units of length T8A
13-2: Equivalence with Customary Units of Capacity	1. Convert customary units of capacity P2G <i>Also consider</i> <ul style="list-style-type: none"> Conversion tables: customary units of capacity WND
13-3: Equivalence with Customary Units of Weight	1. Convert customary units of weight ZQN <i>Also consider</i> <ul style="list-style-type: none"> Conversion tables: customary units of weight SVP Which customary unit is appropriate? MKS
13-4: Equivalence with Metric Units of Length	1. Convert metric units of length Z5S <i>Also consider</i> <ul style="list-style-type: none"> Conversion tables: metric units of length STH
13-5: Equivalence with Metric Units of Capacity and Mass	1. Convert metric units of mass and capacity ZXS <i>Also consider</i> <ul style="list-style-type: none"> Conversion tables: metric units of mass and capacity WZY Which metric unit is appropriate? FPM
13-6: Solve Perimeter and Area Problems	1. Find the missing side length of a rectangle UPZ 2. Find the missing side length of a rectangle: word problems HNX
13-7: Precision	1. Multi-step measurement word problems A2E 2. Measurement word problems with fractions UST

Topic 14

Algebra: Generate and Analyze Patterns

Textbook section	IXL skills
14-1: Number Sequences	<ol style="list-style-type: none">1. Use a rule to complete an addition or subtraction pattern DWF <p><i>Also consider</i></p> <ul style="list-style-type: none">• What is true about the given pattern? C9H• What is true about the pattern made by the rule? 35J
14-2: Patterns: Number Rules	<ol style="list-style-type: none">1. Use a rule to complete a multiplication or division input/output table UZ6 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Input/output tables with addition, subtraction, multiplication, and division HDS
14-3: Patterns: Repeating Shapes	<ol style="list-style-type: none">1. Find the next shape in a pattern KG82. Complete a repeating pattern FNW <p><i>Also consider</i></p> <ul style="list-style-type: none">• Make a repeating pattern V68
14-4: Look For and Use Structure	<ol style="list-style-type: none">1. Shape patterns NVV

Topic 15

Understand Concepts of Angles and Angle Measurement

Textbook section	IXL skills
15-1: Lines, Rays, and Angles	<ol style="list-style-type: none">1. Points, lines, line segments, rays, and angles 9MK2. Acute, right, obtuse, and straight angles R5K
15-2: Understand Angles and Unit Angles	<ol style="list-style-type: none">1. Angles as fractions of a circle N722. Use fractions to find the measure of an angle Q68
15-3: Measure with Unit Angles	<ol style="list-style-type: none">1. Measure angles on a circle RK82. Estimate angle measurements LUJ
15-4: Measure and Draw Angles	<ol style="list-style-type: none">1. Measure angles with a protractor NCN2. Draw angles with a protractor R9K
15-5: Add and Subtract Angle Measures	<ol style="list-style-type: none">1. Adjacent angles VJY2. Angle measures: word problems YUA
15-6: Use Appropriate Tools	<ol style="list-style-type: none">1. Choose the appropriate measuring tool JBL

Topic 16

Lines, Angles, and Shapes

Textbook section	IXL skills
16-1: Lines	<ol style="list-style-type: none">1. Parallel, perpendicular, and intersecting lines JL7 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Identify parallel, perpendicular, and intersecting lines DSU
16-2: Classify Triangles	<ol style="list-style-type: none">1. Acute, obtuse, and right triangles 7QK2. Scalene, isosceles, and equilateral triangles 5UV3. Classify triangles U59
16-3: Classify Quadrilaterals	<ol style="list-style-type: none">1. Classify quadrilaterals A6V2. Pick all the names for a quadrilateral 6CT <p><i>Also consider</i></p> <ul style="list-style-type: none">• Sides and angles of quadrilaterals PTK• Parallel sides in quadrilaterals 58M
16-4: Line Symmetry	<ol style="list-style-type: none">1. Identify lines of symmetry 9FD2. Count lines of symmetry MWS
16-5: Draw Shapes with Line Symmetry	<ol style="list-style-type: none">1. Draw lines of symmetry SQF
16-6: Critique Reasoning	<ol style="list-style-type: none">1. Describe relationships among quadrilaterals C982. Relationship between area and perimeter SKK

Topic 17

Step-Up to Grade 5

Textbook section	IXL skills
17-1: Understand Decimal Place Value	<ol style="list-style-type: none"> 1. Convert decimals between standard and expanded form 5QD 2. Equivalent decimals BZ2
17-2: Compare Decimals	<ol style="list-style-type: none"> 1. Compare and order decimals K2F
17-3: Use Models to Add and Subtract Decimals	<ol style="list-style-type: none"> 1. Add decimals using blocks 6TF 2. Add and subtract decimals 9SL
17-4: Estimate the Product of a Decimal and a Whole Number	<ol style="list-style-type: none"> 1. Estimate products of whole numbers and decimals EDG
17-5: Find Common Denominators	<ol style="list-style-type: none"> 1. Least common denominator 72R
17-6: Add Fractions with Unlike Denominators	<ol style="list-style-type: none"> 1. Add fractions with unlike denominators using models 6PM 2. Add fractions with unlike denominators 7BJ
17-7: Subtract Fractions with Unlike Denominators	<ol style="list-style-type: none"> 1. Subtract fractions with unlike denominators using models D7F 2. Subtract fractions with unlike denominators KKS
17-8: Multiply Fractions and Whole Numbers	<ol style="list-style-type: none"> 1. Multiply fractions by whole numbers II NJE
17-9: Divide Whole Numbers by Unit Fractions	<ol style="list-style-type: none"> 1. Divide whole numbers by unit fractions using area models QXJ 2. Divide whole numbers by unit fractions EY2
17-10: Model Volume	<ol style="list-style-type: none"> 1. Volume YD2