



IXL Skill Alignment

3rd alignment for enVisionMATH 2.0 Common Core Edition

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Topic 1

Understand Multiplication and Division of Whole Numbers

Textbook section	IXL skills
1-1: Multiplication as Repeated Addition	E.1 Count equal groups >> E.4 Relate addition and multiplication for equal groups >> N.9 Relate addition and multiplication >> <i>See also:</i> E.2 Identify multiplication expressions for equal groups >> E.3 Write multiplication sentences for equal groups >> H.6 Multiplication word problems >>
1-2: Multiplication on the Number Line	E.8 Write multiplication sentences for number lines >>
1-3: Arrays and Multiplication	E.5 Identify multiplication expressions for arrays >> E.6 Write multiplication sentences for arrays >> E.7 Make arrays to model multiplication >>
1-4: The Commutative Property	
1-5: Division as Sharing	I.1 Divide by counting equal groups >> I.2 Write division sentences for groups >> I.4 Write division sentences for arrays >> L.5 Division word problems >> <i>See also:</i> K.7 Division facts up to 10 >>
1-6: Division as Repeated Subtraction	L.5 Division word problems >>
1-7: Use Appropriate Tools	

Topic 2

Multiplication Facts: Use Patterns

Textbook section	IXL skills	
2-1: 2 and 5 as Factors	F.3	Multiply by 2 >>
	F.6	Multiply by 5 >>
2-2: 9 as a Factor	F.10	Multiply by 9 >>
2-3: Apply Properties: Multiply by 0 and 1	F.1	Multiply by 0 >>
	F.2	Multiply by 1 >>
2-4: Multiply by 10	F.11	Multiply by 10 >>
2-5: Multiplication Facts: 0, 1, 2, 5, 9, and 10		
2-6: Model with Math		

Topic 3

Apply Properties: Multiplication Facts for 3, 4, 6, 7, and 8

Textbook section	IXL skills	
3-1: The Distributive Property		
3-2: Apply Properties: 3 as a Factor	F.4	Multiply by 3 >>
3-3: Apply Properties: 4 as a Factor	F.5	Multiply by 4 >>
3-4: Apply Properties: 6 and 7 as Factors	F.7	Multiply by 6 >>
	F.8	Multiply by 7 >>
3-5: Apply Properties: 8 as a Factor	F.9	Multiply by 8 >>
3-6: Practice Multiplication Facts	G.1	Multiplication tables for 2, 3, 4, 5, and 10 >>
	G.5	Multiplication tables for 6, 7, 8, and 9 >>
	G.9	Multiplication tables up to 10 >>
	H.6	Multiplication word problems >>
3-7: The Associative Property: Multiply with 3 Factors	H.12	Multiply three or more numbers >>
	H.13	Multiply three or more numbers: word problems >>
	<i>See also:</i>	
	N.8	Solve using properties of multiplication >>
3-8: Repeated Reasoning		

Topic 4

Use Multiplication to Divide: Division Facts

Textbook section	IXL skills
4-1: Relate Multiplication and Division	I.3 Relate multiplication and division for groups >>
	I.5 Relate multiplication and division for arrays >>
	<i>See also:</i> N.10 Relate multiplication and division >>
4-2: Use Multiplication to Divide with 2, 3, 4, and 5	J.2 Divide by 2 >>
	J.3 Divide by 3 >>
	J.4 Divide by 4 >>
	J.5 Divide by 5 >>
4-3: Use Multiplication to Divide with 6 and 7	J.6 Divide by 6 >>
	J.7 Divide by 7 >>
4-4: Use Multiplication to Divide with 8 and 9	J.8 Divide by 8 >>
	J.9 Divide by 9 >>
4-5: Multiplication Patterns: Even and Odd Numbers	A.1 Even or odd >>
4-6: Division Involving 0 and 1	J.1 Divide by 1 >>
4-7: Practice Multiplication and Division Facts	G.9 Multiplication tables up to 10 >>
	H.6 Multiplication word problems >>
	H.7 Multiplication word problems: find the missing factor >>
	K.7 Division facts up to 10 >>
	L.5 Division word problems >>
	M.9 Addition, subtraction, multiplication, and division word problems >>
	M.12 Multi-step word problems >>
	<i>See also:</i> G.12 Multiplication facts up to 10: find the missing factor >>

4-8: Solve Multiplication and Division Equations

- G.12** Multiplication facts up to 10: find the missing factor >>
- H.6** Multiplication word problems >>
- H.7** Multiplication word problems: find the missing factor >>
- K.10** Division facts up to 10: find the missing number >>
- L.5** Division word problems >>
- M.4** Multiplication and division facts up to 10: true or false? >>

See also:

- G.14** Multiplication sentences up to 10: true or false? >>
- K.12** Division sentences up to 10: true or false? >>

4-9: Make Sense and Persevere

- M.12** Multi-step word problems >>

See also:

- H.13** Multiply three or more numbers: word problems >>
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Topic 5

Fluently Multiply and Divide within 100

Textbook section	IXL skills
5-1: Patterns for Multiplication Facts	
5-2: Use a Multiplication Table	G.4 Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor >> G.8 Multiplication facts for 6, 7, 8, and 9: find the missing factor >> G.12 Multiplication facts up to 10: find the missing factor >> H.7 Multiplication word problems: find the missing factor >> K.1 Division facts for 2, 3, 4, 5, and 10 >> K.4 Division facts for 6, 7, 8, and 9 >> K.7 Division facts up to 10 >> L.5 Division word problems >>
5-3: Find Missing Numbers in a Multiplication Table	
5-4: Use Strategies to Multiply	G.9 Multiplication tables up to 10 >> H.6 Multiplication word problems >>
5-5: Solve Word Problems: Multiplication and Division Facts	H.6 Multiplication word problems >> H.7 Multiplication word problems: find the missing factor >> L.5 Division word problems >> <i>See also:</i> H.13 Multiply three or more numbers: word problems >> M.12 Multi-step word problems >>
5-6: Write Math Stories: Multiplication	
5-7: Write Math Stories: Division	
5-8: Look For and Use Structure	

Topic 6

Connect Area to Multiplication and Addition

Textbook section	IXL skills
6-1: Cover Regions	FF.6 Find the area of figures made of unit squares >> <i>See also:</i> FF.9 Create figures with a given area >>
6-2: Area: Nonstandard Units	
6-3: Area: Standard Units	
6-4: Area of Squares and Rectangles	FF.10 Find the area of rectangles and squares >>
6-5: Apply Properties: Area and the Distributive Property	
6-6: Apply Properties: Area of Irregular Shapes	FF.14 Find the area of complex figures >>
6-7: Look For and Use Structure	FF.15 Find the area between two rectangles >>

Topic 7

Represent and Interpret Data

Textbook section	IXL skills
7-1: Read Picture Graphs and Bar Graphs	U.5 Interpret bar graphs >> U.11 Interpret pictographs >>
7-2: Make Picture Graphs	U.12 Create pictographs >>
7-3: Make Bar Graphs	U.5 Interpret bar graphs >> U.7 Create bar graphs >>
7-4: Solve Word Problems Using Information in Graphs	U.5 Interpret bar graphs >>
7-5: Precision	

Topic 8

Use Strategies and Properties to Add and Subtract

Textbook section	IXL skills
8-1: Addition Properties	N.3 Properties of addition >> N.4 Solve using properties of addition >>
8-2: Algebra: Addition Patterns	
8-3: Round Whole Numbers	P.1 Rounding - nearest ten or hundred only >>
8-4: Mental Math: Addition	C.1 Add two numbers up to three digits >>
8-5: Mental Math: Subtraction	D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >> M.8 Addition and subtraction word problems >>
8-6: Estimate Sums	P.5 Estimate sums up to 1,000 >>
8-7: Estimate Differences	P.8 Estimate differences up to 1,000 >>
8-8: Relate Addition and Subtraction	C.1 Add two numbers up to three digits >> C.3 Add two numbers up to three digits - word problems >> D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >> M.8 Addition and subtraction word problems >> <i>See also:</i> C.4 Complete the addition sentence - up to three digits >> D.4 Complete the subtraction sentence - up to three digits >>
8-9: Model with Math	

Topic 9

Fluently Add and Subtract within 1,000

Textbook section	IXL skills
9-1: Use Partial Sums to Add	C.1 Add two numbers up to three digits >> <i>See also:</i> C.3 Add two numbers up to three digits - word problems >>
9-2: Add 3-Digit Numbers	C.1 Add two numbers up to three digits >> C.3 Add two numbers up to three digits - word problems >> P.5 Estimate sums up to 1,000 >>
9-3: Continue to Add 3-Digit Numbers	C.1 Add two numbers up to three digits >> C.3 Add two numbers up to three digits - word problems >> P.5 Estimate sums up to 1,000 >>
9-4: Add 3 or More Numbers	C.6 Add three numbers up to three digits each >> C.7 Add three numbers up to three digits each: word problems >>
9-5: Use Partial Difference to Subtract	D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >>
9-6: Subtract 3-Digit Numbers	D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >> P.8 Estimate differences up to 1,000 >>
9-7: Continue to Subtract 3-Digit Numbers	D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >> P.8 Estimate differences up to 1,000 >>
9-8: Construct Arguments	

Topic 10

Multiply by Multiples of 10

Textbook section	IXL skills	
10-1: Use an Open Number Line to Multiply	H.1	Multiply by a multiple of ten >>
10-2: Use Properties to Multiply		
10-3: Multiply by Multiples of 10	H.1	Multiply by a multiple of ten >>
10-4: Look for and Use Structure		

Topic 11

Use Operations with Whole Number to Solve Problems

Textbook section	IXL skills
11-1: Solve 2-Step Word Problems: Addition and Subtraction	
11-2: Solve 2-Step Word Problems: Multiplication and Division	
11-3: Solve 2-Step Word Problems: All Operations	
11-4: Critique Reasoning	

Topic 12

Understand Fractions as Numbers

Textbook section	IXL skills
12-1: Divide Regions into Equal Parts	W.1 Identify equal parts >> W.7 Match unit fractions to models >>
12-2: Fractions and Regions	W.2 Understand fractions: fraction bars >> W.3 Understand fractions: area models >> W.4 Show fractions: fraction bars >> W.5 Show fractions: area models >> W.6 Match fractions to models: halves, thirds, and fourths >> W.8 Match fractions to models >> <i>See also:</i> W.18 Fractions of a whole: modeling word problems >>
12-3: Understand the Whole	
12-4: Number Line: Fractions Less Than 1	W.11 Identify unit fractions on number lines >> W.12 Identify fractions on number lines >> W.13 Graph unit fractions on number lines >> <i>See also:</i> W.9 Fractions of number lines: unit fractions >> W.10 Fractions of number lines >>
12-5: Number Line: Fractions Greater Than 1	W.14 Graph fractions on number lines >> X.7 Graph fractions equivalent to 1 on number lines >> <i>See also:</i> W.15 Graph smaller or larger fractions on a number line >>
12-6: Line Plots and Length	

12-7: More Line Plots and Length**BB.3** [Measure using an inch ruler >>](#)*See also:***U.8** [Interpret line plots >>](#)**U.9** [Create line plots >>](#)**12-8: Make Sense and Persevere****W.20** [Fractions of a group: word problems >>](#)*See also:***W.17** [Unit fractions: word problems >>](#)**W.19** [Fractions of a whole: word problems >>](#)

Topic 13

Fraction Equivalence and Comparison

Textbook section	IXL skills
13-1: Equivalent Fractions: Use Models	X.1 Find equivalent fractions using area models >>
13-2: Equivalent Fractions: Use the Number Line	X.2 Identify equivalent fractions on number lines >> X.3 Find equivalent fractions using number lines >> X.5 Select equivalent fractions >> <i>See also:</i> X.4 Graph equivalent fractions on number lines >> X.6 Find equivalent fractions >>
13-3: Use Models to Compare Fractions: Same Denominator	Y.10 Order fractions with like denominators >>
13-4: Use Models to Compare Fractions: Same Numerator	Y.1 Compare fractions using models >> Y.6 Compare fractions >> <i>See also:</i> Y.11 Order fractions with like numerators >> Y.12 Order fractions >>
13-5: Compare Fractions: Use Benchmarks	Y.6 Compare fractions >> <i>See also:</i> Y.8 Benchmark fractions >>
13-6: Compare Fractions: Use the Number Line	Y.2 Compare fractions using number lines >> Y.3 Graph and compare fractions with like denominators on number lines >> Y.4 Graph and compare fractions with like numerators on number lines >> Y.5 Graph and compare fractions on number lines >>

See also:

Y.9 Graph and order fractions on number lines >>

13-7: Whole Numbers and Fractions

X.8 Select fractions equivalent to whole numbers using area models >>

See also:

X.7 Graph fractions equivalent to 1 on number lines >>

X.9 Find fractions equivalent to whole numbers >>

13-8: Construct Arguments

Topic 14

Solve Time, Capacity, and Mass Problems

Textbook section	IXL skills
14-1: Time to the Minute	T.1 Match clocks and times >> T.2 Match analog and digital clocks >> T.3 Read clocks and write times >> T.5 Write times >>
14-2: Units of Time: Measure Elapsed Time	T.6 Elapsed time >> T.7 Elapsed time word problems I >>
14-3: Units of Time: Solve Word Problems	
14-4: Estimate Liquid Volume	BB.15 Which metric unit of volume is appropriate? >>
14-5: Measure Liquid Volume	BB.15 Which metric unit of volume is appropriate? >>
14-6: Estimate Mass	BB.14 Which metric unit of weight is appropriate? >> BB.21 Choose the appropriate measuring tool >>
14-7: Measure Mass	BB.14 Which metric unit of weight is appropriate? >>
14-8: Solve Word Problems Involving Mass and Liquid Volume	
14-9: Reasoning	

Topic 15

Attributes of Two-Dimensional Shapes

Textbook section	IXL skills
15-1: Describe Quadrilaterals	DD.8 Classify quadrilaterals >>
15-2: Classify Shapes	U.16 Sort shapes into a Venn diagram >>
15-3: Analyze and Compare Quadrilaterals	
15-4: Precision	

Topic 16

Solve Perimeter Problems

Textbook section	IXL skills
16-1: Understand Perimeter	
16-2: Perimeter of Common Shapes	FF.1 Perimeter of rectangles >>
16-3: Perimeter and Unknown Side Lengths	FF.4 Perimeter: find the missing side length >>
16-4: Same Perimeter, Different Area	FF.10 Find the area of rectangles and squares >>
	FF.16 Compare area and perimeter of two figures >>
16-5: Same Area, Different Perimeter	FF.18 Relationship between area and perimeter I >>
16-6: Reasoning	FF.17 Use area and perimeter to determine cost >>