



IXL Skill Alignment

3rd alignment for enVisionMATH Common Core Edition

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Topic 1

Numeration

Textbook section	IXL skills
1 - 1: Representing Numbers	A.7 Write numbers in words >> B.1 Place value models up to thousands >> <i>See also:</i> B.9 Place value word problems >>
1 - 2: Ways to Name Numbers	
1 - 3: Greater Numbers	B.2 Place value names up to thousands >> B.4 Value of a digit >> B.7 Convert from expanded form >> B.8 Convert between standard and expanded form >> <i>See also:</i> B.5 Convert to/from a number >>
1 - 4: Understanding Number Lines	
1 - 5: Counting on the Number Line	A.3 Skip-counting >>
1 - 6: Comparing Numbers	A.9 Compare numbers >>
1 - 7: Ordering Numbers	A.11 Order numbers >>
1 - 8: Make an Organized List	H.14 Combinations >>

Topic 2

Number Sense: Addition and Subtraction

Textbook section	IXL skills
2 - 1: Addition Meaning and Properties	N.4 Solve using properties of addition >>
2 - 2: Subtraction Meanings	
2 - 3: Using Mental Math to Add	
2 - 4: Using Mental Math to Subtract	
2 - 5: Rounding	P.1 Rounding - nearest ten or hundred only >> <i>See also:</i> P.4 Rounding puzzles >>
2 - 6: Estimating Sums	P.6 Estimate sums >>
2 - 7: Estimating Differences	
2 - 8: Making Sense of Addition and Subtraction Equations	O.2 Solve for the variable: addition and subtraction >>
2 - 9: Reasonableness	

Topic 3

Using Place Value to Add and Subtract

Textbook section	IXL skills
3 - 1: Addition with an Expanded Algorithm	C.1 Add two numbers up to three digits >> C.3 Add two numbers up to three digits - word problems >>
3 - 2: Models for Adding 3-Digit Numbers	
3 - 3: Adding 3-Digit Numbers	C.1 Add two numbers up to three digits >> C.3 Add two numbers up to three digits - word problems >>
3 - 4: Adding 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 >>
3 - 5: Draw a Picture	
3 - 6: Subtracting with an Expanded Algorithm	D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >>
3 - 7: Models for Subtracting 3-Digit Numbers	
3 - 8: Subtracting 3-Digit Numbers	D.1 Subtract numbers up to three digits >> D.3 Subtract numbers up to three digits - word problems >>
3 - 9: Subtracting Across Zero	
3 - 10: Draw a Picture and Write a Number Sentence	

Topic 4

Meanings of Multiplication

Textbook section	IXL skills
4 - 1: Multiplication as Repeated Addition	E.1 Count equal groups >>
	E.2 Identify multiplication expressions for equal groups >>
	E.3 Write multiplication sentences for equal groups >>
	E.4 Relate addition and multiplication for equal groups >>
4 - 2: Arrays and Multiplication	E.6 Write multiplication sentences for arrays >>
	E.7 Make arrays to model multiplication >>
4 - 3: The Commutative Property	E.6 Write multiplication sentences for arrays >>
4 - 4: Writing Multiplication Stories	H.6 Multiplication word problems >>
4 - 5: Writing to Explain	

Topic 5

Multiplication Facts: Use Patterns

Textbook section	IXL skills	
5 - 1: 2 and 5 as Factors	F.3	Multiply by 2 >>
	F.6	Multiply by 5 >>
5 - 2: 9 as a Factor	F.10	Multiply by 9 >>
5 - 3: Multiplying with 0 and 1	F.1	Multiply by 0 >>
	F.2	Multiply by 1 >>
5 - 4: Patterns for Facts	G.1	Multiplication tables for 2, 3, 4, 5, and 10 >>
	<i>See also:</i> A.5 Number sequences >>	
5 - 5: 10 as a factor	F.11	Multiply by 10 >>
5 - 6: Multiplying by Multiples of 10	H.1	Multiply by a multiple of ten >>
5 - 7: Two-Question Problems		

Topic 6

Multiplication Facts: Use Known Facts

Textbook section	IXL skills
6 - 1: The Distributive Property	N.6 Distributive property: find the missing factor >>
6 - 2: 3 as a Factor	F.4 Multiply by 3 >>
6 - 3: 4 as a Factor	F.5 Multiply by 4 >>
6 - 4: 6 and 7 as Factors	F.7 Multiply by 6 >> F.8 Multiply by 7 >>
6 - 5: 8 as a Factor	F.9 Multiply by 8 >>
6 - 6: Multiplying with 3 Factors	
6 - 7: 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 >> <i>See also:</i> G.3 Multiplication facts for 2, 3, 4, 5, and 10: sorting >> G.7 Multiplication facts for 6, 7, 8, and 9: sorting >> G.11 Multiplication facts up to 10: sorting >>
6 - 8: Multiplying to Find Combinations	H.14 Combinations >>
6 - 9: Multiple-Step Problems	M.12 Multi-step word problems >>

Topic 7

Meanings of Division

Textbook section	IXL skills	
7 - 1: Division as Sharing		
7 - 2: Division as Repeated Subtraction	L.5	Division word problems >>
7 - 3: Finding Missing Numbers in a Multiplication Table	K.1	Division facts for 2, 3, 4, 5, and 10 >>
	K.7	Division facts up to 10 >>
	L.5	Division word problems >>
	<i>See also:</i> O.3 Solve for the variable: multiplication and division >>	
7 - 4: Choose an Appropriate Equation		
7 - 5: Writing Division Stories	K.1	Division facts for 2, 3, 4, 5, and 10 >>
7 - 6: Use Objects and Draw a Picture		

Topic 8

Division Facts

Textbook section	IXL skills
8 - 1: Relating Multiplication and Division	N.10 Relate multiplication and division >>
8 - 2: Fact Families with 2,3,4, and 5	K.1 Division facts for 2, 3, 4, 5, and 10 >> <i>See also:</i> K.3 Division facts for 2, 3, 4, 5, and 10: sorting >>
8 - 3: Fact Families with 6 and 7	J.6 Divide by 6 >> J.7 Divide by 7 >>
8 - 4: Fact Families with 8 and 9	J.8 Divide by 8 >> J.9 Divide by 9 >> <i>See also:</i> K.6 Division facts for 6, 7, 8, and 9: sorting >>
8 - 5: Multiple-Step Problems	
8 - 6: Making Sense of Multiplication and Division Equations	O.3 Solve for the variable: multiplication and division >>
8 - 7: Dividing with 0 and 1	J.1 Divide by 1 >>
8 - 8: Multiplication and Division Facts	G.9 Multiplication tables up to 10 >> K.7 Division facts up to 10 >> K.9 Division facts up to 10: sorting >> K.10 Division facts up to 10: find the missing number >>
8 - 9: Draw a Picture and Write a Number Sentence	L.5 Division word problems >>

Topic 9

Understanding Fractions

Textbook section	IXL skills
9 - 1: Dividing Regions into Equal Parts	W.1 Identify equal parts >> W.6 Match fractions to models: halves, thirds, and fourths >>
9 - 2: Fractions and Regions	W.3 Understand fractions: area models >> W.7 Match unit fractions to models >> W.8 Match fractions to models >>
9 - 3: Fractions and Sets	W.20 Fractions of a group: word problems >> Z.3 Fractions of a number - unit fractions: word problems >> Z.4 Fractions of a number: word problems >>
9 - 4: Fractional Parts of a Set	Z.1 Fractions of a number - unit fractions >>
9 - 5: Locating Fractions on the Number Line	W.11 Identify unit fractions on number lines >> W.12 Identify fractions on number lines >> W.13 Graph unit fractions on number lines >> W.14 Graph fractions on number lines >>
9 - 6: Benchmark Fractions	Y.8 Benchmark fractions >> <i>See also:</i> W.11 Identify unit fractions on number lines >>
9 - 7: Fractions and Lengths	
9 - 8: Make a Table and Look for a Pattern	

Topic 10

Fraction Comparison and Equivalence

Textbook section	IXL skills
10 - 1: Using Models to Compare Fractions: Same Denominator	Y.3 Graph and compare fractions with like denominators on number lines >>
10 - 2: Using Models to Compare Fractions: Same Numerator	Y.4 Graph and compare fractions with like numerators on number lines >>
10 - 3: Comparing Fractions Using Benchmarks	Y.6 Compare fractions >>
10 - 4: Comparing Fractions on the Number Line	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 >>
	Y.6 Compare fractions >>
10 - 5: Find Equivalent Fractions	X.1 Find equivalent fractions using area models >>
	X.6 Find equivalent fractions >>
	X.11 Write fractions in lowest terms >>
10 - 6: Equivalent Fractions and the Number Line	X.2 Identify equivalent fractions on number lines >>
	X.3 Find equivalent fractions using number lines >>
	<i>See also:</i> X.7 Graph fractions equivalent to 1 on number lines >>
10 - 7: Whole Numbers and Fractions	X.7 Graph fractions equivalent to 1 on number lines >>
	X.9 Find fractions equivalent to whole numbers >>
10 - 8: Using Fractions	Y.5 Graph and compare fractions on number lines >>
	Y.6 Compare fractions >>

Y.10 Order fractions with like denominators >>

Y.11 Order fractions with like numerators >>

Y.12 Order fractions >>

10 - 9: Draw a Picture

Topic 11

Two-Dimensional Shapes and Their Attributes

Textbook section	IXL skills
11 - 1: Lines and Line Segments	CC.5 Lines, line segments, and rays >> CC.7 Parallel, perpendicular, and intersecting lines >>
11 - 2: Angles	CC.6 Angles greater than, less than, or equal to a right angle >>
11 - 3: Polygons	CC.4 Is it a polygon? >> DD.3 Parallel sides in quadrilaterals >>
11 - 4: Triangles	DD.1 Acute, obtuse, and right triangles >> DD.2 Scalene, isosceles, and equilateral triangles >>
11 - 5: Quadrilaterals	DD.8 Classify quadrilaterals >>
11 - 6: Combining and Separating Shapes	
11 - 7: Making New Shapes	
11 - 8: Solve a Simpler Problem	M.12 Multi-step word problems >>
11 - 9: Make and Test Generalizations	DD.8 Classify quadrilaterals >> <i>See also:</i> DD.3 Parallel sides in quadrilaterals >>

Topic 12

Time

Textbook section	IXL skills	
12 - 1: Time to the Half Hour and Quarter Hour	T.3	Read clocks and write times >>
12 - 2: Time to the Minute	T.3	Read clocks and write times >>
12 - 3: Units of Time	T.11	Relate time units >>
	<i>See also:</i>	
	T.10	Convert between hours and fractions of hours >>
12 - 4: Elapsed Time	T.6	Elapsed time >>
	T.7	Elapsed time word problems I >>
12 - 5: Work Backward		

Topic 13

Perimeter

Textbook section	IXL skills
13 - 1: Understanding Perimeter	FF.1 Perimeter of rectangles >>
13 - 2: Tools and Units for Perimeter	
13 - 3: Perimeter of Common Shapes	FF.1 Perimeter of rectangles >>
13 - 4: Different Shapes with the Same Perimeter	
13 - 5: Try, Check, and Revise	

Topic 14

Area

Textbook section	IXL skills	
14 - 1: Converting Regions	FF.6	Find the area of figures made of unit squares >>
14 - 2: Area and Units	FF.9	Create figures with a given area >>
14 - 3: Standard Units	FF.6	Find the area of figures made of unit squares >>
14 - 4: Area of Squares and Rectangles	FF.10	Find the area of rectangles and squares >>
	FF.13	Find the area of rectangles: word problems >>
14 - 5: Area and the Distributive Property		
14 - 6: Solve a Simpler Problem	FF.15	Find the area between two rectangles >>
14 - 7: Area of Irregular Shapes	FF.14	Find the area of complex figures >>
14 - 8: Same Area, Different Perimeter	FF.18	Relationship between area and perimeter I >>
14 - 9: Equal Area and Fractions	W.3	Understand fractions: area models >>
	W.5	Show fractions: area models >>
14 - 10: Selecting Appropriate Measurement Units and Tools	BB.7	Which customary unit is appropriate? >>
	BB.16	Which metric unit is appropriate? >>

Topic 15

Liquid Volume and Mass

Textbook section	IXL skills
15 - 1: Customary Units of Capacity	BB.10 Compare and convert customary units of volume >>
15 - 2: Metric Units of Capacity	BB.19 Compare and convert metric units of volume >>
15 - 3: Units of Mass	BB.18 Compare and convert metric units of weight >>
15 - 4: Units of Weight	BB.9 Compare and convert customary units of weight >>
15 - 5: Draw a Picture	

Topic 16

Data

Textbook section	IXL skills	
16 - 1: Line Plots	U.8	Interpret line plots >>
16 - 2: Length and Line Plots	U.8	Interpret line plots >>
	U.9	Create line plots >>
16 - 3: Reading Pictographs and Bar Graphs	U.5	Interpret bar graphs >>
	U.11	Interpret pictographs >>
16 - 4: Making Pictographs	U.12	Create pictographs >>
16 - 5: Making Bar Graphs	U.7	Create bar graphs >>
16 - 6: Use Tables and Graphs to Draw Conclusions	U.4	Interpret tally charts and tables >>
	U.5	Interpret bar graphs >>
	U.7	Create bar graphs >>
	U.11	Interpret pictographs >>
	U.12	Create pictographs >>