



Skill Alignment

enVisionMATH COMMON CORE EDITION

3rd Grade

Topic 1

Numeration

Textbook section	IXL skills
1-1: Representing Numbers	A.1 Write numbers in words >> B.1 Place value models >> <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 >> B.3 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.6 Skip-counting >>
1-6: Comparing Numbers	A.9 Compare numbers >>
1-7: Ordering Numbers	A.11 Order numbers >>
1-8: Make an Organized List	X.4 Combinations >>

Topic 2

Number Sense: Addition and Subtraction

Textbook section	IXL skills
2-1: Addition Meaning and Properties	J.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	L.1 Rounding - nearest ten or hundred only >> <i>See also:</i> L.4 Rounding puzzles >>
2-6: Estimating Sums	L.7 Estimate sums >>
2-7: Estimating Differences	
2-8: Making Sense of Addition and Subtraction Equations	K.2 Solve for the variable - addition and subtraction only >>
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 Multiplication sentences >> J.9 Relate addition and multiplication >>
4-2: Arrays and Multiplication	E.1 Multiplication sentences >>
4-3: The Commutative Property	
4-4: Writing Multiplication Stories	E.3 Multiplication word problems - facts to 12 >>
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	F.14 Multiplication tables for 2, 3, 4, 5, and 10 >> <i>See also:</i> A.8 Number sequences >>
5-5: 10 as a Factor	F.11 Multiply by 10 >>
5-6: Multiplying by Multiples of 10	E.8 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	J.7 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	F.14 Multiplication tables for 2, 3, 4, 5, and 10 >>
	F.15 Multiplication tables for 6, 7, 8, and 9 >>
	F.16 Multiplication tables up to 10 >>
6-8: Multiplying to Find Combinations	X.4 Combinations >>
6-9: Multiple-Step Problems	I.7 Multi-step word problems >>

Topic 7

Meanings of Division

Textbook section	IXL skills
7-1: Division as Sharing	
7-2: Division as Repeated Subtraction	G.3 Division word problems - facts to 10 >>
7-3: Finding Missing Numbers in a Multiplication Table	G.1 Division facts to 5 >>
	G.2 Division facts to 10 >>
	G.3 Division word problems - facts to 10 >>
7-4: Choose an Appropriate Equation	K.4 Write variable equations to represent word problems >>
7-5: Writing Division Stories	G.1 Division facts to 5 >>
7-6: Use Objects and Draw a Picture	

Topic 8

Division Facts

Textbook section	IXL skills
8-1: Relating Multiplication and Division	J.10 Relate multiplication and division >>
8-2: Fact Families with 2, 3, 4, and 5	G.1 Division facts to 5 >>
8-3: Fact Families with 6 and 7	H.6 Divide by 6 >>
	H.7 Divide by 7 >>
8-4: Fact Families with 8 and 9	H.8 Divide by 8 >>
	H.9 Divide by 9 >>
8-5: Multiple-Step Problems	
8-6: Making Sense of Multiplication and Division Equations	K.3 Solve for the variable - with multiplication and division >>
8-7: Dividing with 0 and 1	H.1 Divide by 1 >>
8-8: Multiplication and Division Facts	F.16 Multiplication tables up to 10 >>
	G.2 Division facts to 10 >>
	G.3 Division word problems - facts to 10 >>
	G.4 Complete the division sentence – facts to 10 >>
8-9: Draw a Picture and Write a Number Sentence	G.3 Division word problems - facts to 10 >>

Topic 9

Understanding Fractions

Textbook section	IXL skills
9-1: Dividing Regions into Equal Parts	S.1 Identify equal parts >> S.2 Identify halves, thirds, and fourths >>
9-2: Fractions and Regions	S.4 Understand fractions: area models >> S.5 Match unit fractions to models >> S.6 Match fractions to models >>
9-3: Fractions and Sets	S.15 Fraction review - word problems >> V.3 Fraction of a number - unit fractions: word problems >> V.4 Fractions of a number - word problems >>
9-4: Fractional Parts of a Set	V.1 Fractions of a number - unit fractions >>
9-5: Locating Fractions on the Number Line	S.11 Identify unit fractions on number lines >> S.12 Identify fractions on number lines >> S.13 Graph unit fractions on number lines >> S.14 Graph fractions on number lines >>
9-6: Benchmark Fractions	U.8 Benchmark fractions >> <i>See also:</i> S.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	U.3 Graph and compare fractions with like denominators on number lines >>
10-2: Using Models to Compare Fractions: Same Numerator	U.4 Graph and compare fractions with like numerators on number lines >>
10-3: Comparing Fractions Using Benchmarks	U.6 Compare fractions >>
10-4: Comparing Fractions on the Number Line	U.3 Graph and compare fractions with like denominators on number lines >>
	U.4 Graph and compare fractions with like numerators on number lines >>
	U.5 Graph and compare fractions on number lines >>
	U.6 Compare fractions >>
10-5: Finding Equivalent Fractions	T.5 Find equivalent fractions using area models >>
	T.9 Equivalent fractions: type the missing numerator or denominator >>
	T.11 Reducing fractions to lowest terms >>
10-6: Equivalent Fractions and the Number Line	T.1 Identify equivalent fractions on number lines >>
	T.2 Find equivalent fractions using number lines >>
	<i>See also:</i> T.7 Graph fractions equivalent to 1 on number lines >>
10-7: Whole Numbers and Fractions	T.7 Graph fractions equivalent to 1 on number lines >>
	T.8 Fractions equivalent to whole numbers >>



10-8: Using Fractions

U.5 Graph and compare fractions on number lines >>

U.6 Compare fractions >>

U.10 Order fractions with like numerators >>

U.11 Order fractions with like denominators >>

U.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	R.20 Lines, line segments, and rays >> R.21 Parallel, perpendicular, and intersecting >>
11-2: Angles	R.19 Angles: greater than, less than, or equal to a right angle >>
11-3: Polygons	R.2 Which 2-dimensional shape is being described? >> R.22 Is it a polygon? >>
11-4: Triangles	R.23 Triangles: equilateral, isosceles, and scalene >> R.24 Triangles: acute, right, and obtuse >>
11-5: Quadrilaterals	R.25 Classify quadrilaterals >>
11-6: Combining and Separating Shapes	
11-7: Making New Shapes	
11-8: Solve a Simpler Problem	I.7 Multi-step word problems >>
11-9: Make and Test Generalizations	R.25 Classify quadrilaterals >> <i>See also:</i> R.2 Which 2-dimensional shape is being described? >>

Topic 12

Time

Textbook section	IXL skills
12-1: Time to the Half Hour and Quarter Hour	0.1 Read clocks and write times >>
12-2: Time to the Minute	0.1 Read clocks and write times >>
12-3: Units of Time	0.6 Relate time units >> <i>See also:</i> 0.8 Convert between hours and fractions of hours >>
12-4: Elapsed Time	0.3 Elapsed time I >> 0.4 Elapsed time II >>
12-5: Work Backward	

Topic 13

Perimeter

Textbook section	IXL skills
13-1: Understanding Perimeter	R.8 Perimeter >>
13-2: Tools and Units for Perimeter	
13-3: Perimeter of Common Shapes	R.8 Perimeter >>
13-4: Different Shapes with the Same Perimeter	
13-5: Try, Check, and Revise	

Topic 14

Area

Textbook section	IXL skills
14-1: Covering Regions	R.10 Area of figures made of unit squares >>
14-2: Area and Units	
14-3: Standard Units	R.10 Area of figures made of unit squares >>
14-4: Area of Squares and Rectangles	R.11 Area of rectangles >> R.12 Area of squares and rectangles: word problems >>
14-5: Area and the Distributive Property	
14-6: Solve a Simpler Problem	R.14 Area between two rectangles >>
14-7: Area of Irregular Shapes	R.13 Area of complex figures (with all right angles) >>
14-8: Same Area, Different Perimeter	R.17 Relationship between area and perimeter >>
14-9: Equal Area and Fractions	S.4 Understand fractions: area models >> S.8 Show fractions: area models >>
14-10: Selecting Appropriate Measurement Units and Tools	Q.4 Which customary unit is appropriate? >> Q.10 Which metric unit is appropriate? >>

Topic 15

Liquid Volume and Mass

Textbook section	IXL skills
15-1: Customary Units of Capacity	Q.7 Compare and convert customary units of volume >>
15-2: Metric Units of Capacity	Q.13 Compare and convert metric units of volume >>
15-3: Units of Mass	Q.12 Compare and convert metric units of weight >>
15-4: Units of Weight	Q.6 Compare and convert customary units of weight >>
15-5: Draw a Picture	

Topic 16

Data

Textbook section	IXL skills
16-1: Line Plots	P.7 Interpret line plots >>
16-2: Length and Line Plots	P.7 Interpret line plots >>
	P.8 Create line plots >>
16-3: Reading Pictographs and Bar Graphs	P.5 Interpret bar graphs >>
	P.9 Interpret pictographs >>
16-4: Making Pictographs	P.10 Create pictographs >>
16-5: Making Bar Graphs	P.6 Create bar graphs >>
16-6: Use Tables and Graphs to Draw Conclusions	P.4 Interpret tally charts and tables >>
	P.5 Interpret bar graphs >>
	P.6 Create bar graphs >>
	P.9 Interpret pictographs >>
	P.10 Create pictographs >>