



IXL Skill Alignment

6th alignment for enVisionMATH Common Core Edition

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Topic 1

Numeration

Textbook section	IXL skills
1 - 1: Place Value	A.1 Place values in whole numbers >> A.3 Write word names for numbers >>
1 - 2: Comparing and Ordering Whole Numbers	
1 - 3: Exponents and Place Value	D.1 Write multiplication expressions using exponents >> D.2 Evaluate exponents >>
1 - 4: Decimal Place Value	F.2 Decimal place values >> F.3 Word names for decimal numbers >>
1 - 5: Multiplying and Dividing by 10, 100, and 1000	H.6 Multiply and divide decimals by powers of ten >>
1 - 6: Comparing and Ordering Decimals	
1 - 7: Make an Organized List	II.1 Counting principle >>

Topic 2

Variables, Expressions and Properties

Textbook section	IXL skills
2 - 1: Use Variables to Write Expressions	Y.2 Write variable expressions: word problems >>
2 - 2: Properties of Operations	Y.8 Properties of addition >> Y.9 Properties of multiplication >>
2 - 3: Order of Operations	
2 - 4: The Distributive Property	
2 - 5: Mental Math	
2 - 6: Evaluating Expressions	Y.3 Evaluate variable expressions with whole numbers >>
2 - 7: Using Expressions to Describe Patterns	BB.6 Write a two-variable equation >>
2 - 8: Make a Table	Z.8 Solve one-step equations: word problems >> BB.4 Solve word problems involving two-variable equations >> BB.5 Complete a table for a two-variable relationship >> BB.6 Write a two-variable equation >>

Topic 3

Operations with Decimals

Textbook section	IXL skills
3 - 1: Estimating Sums and Differences	G.3 Estimate sums and differences of decimals >>
3 - 2: Adding and Subtracting	G.1 Add and subtract decimal numbers >> G.2 Add and subtract decimals: word problems >>
3 - 3: Estimating Products and Quotients	H.1 Estimate products of decimal numbers >>
3 - 4: Multiplying Decimals	H.2 Multiply decimals >>
3 - 5: Dividing Whole Numbers	
3 - 6: Dividing by a Whole Number	H.4 Divide decimals by whole numbers >> H.5 Divide decimals by whole numbers: word problems >>
3 - 7: Dividing Decimals	H.7 Division with decimal quotients >>
3 - 8: Evaluating Expressions	
3 - 9: Solutions for Equations and Inequalities	Z.1 Does x satisfy an equation? >> AA.1 Solutions to inequalities >>
3 - 10: Multiple - Step Problems	

Topic 4

Solving Equations

Textbook section	IXL skills	
4 - 1: Properties of Equality		
4 - 2: Solving Addition and Subtraction Equations		
4 - 3: Draw a Picture and Write an Equation		
4 - 4: Solving Multiplication and Division Equations	Z.6	Solve one-step equations with whole numbers >>
4 - 5: Draw a Picture and Write an Equation	Y.2	Write variable expressions: word problems >>

Topic 5

Number and Fraction Concepts

Textbook section	IXL skills
5 - 1: Factors, Multiples, and Divisibility	C.1 Divisibility rules >> E.4 Identify factors >>
5 - 2: Prime Factorization	E.3 Prime or composite >> E.5 Prime factorization >> E.6 Prime factorization with exponents >>
5 - 3: Greatest Common Factor	E.7 Greatest common factor >>
5 - 4: Understanding Fractions	I.1 Fractions on number lines >> I.2 Understanding fractions: word problems >>
5 - 5: Equivalent Fractions	I.3 Equivalent fractions review >>
5 - 6: Fractions in Simplest Form	I.4 Write fractions in lowest terms >>
5 - 7: Make and Test Conjectures	

Topic 6

Decimals, Fractions, and Mixed Numbers

Textbook section	IXL skills
6 - 1: Fractions and Division	
6 - 2: Fractions and Decimals	F.1 What decimal number is illustrated? >> F.2 Decimal place values >>
6 - 3: Improper Fractions and Mixed Numbers	I.9 Convert between improper fractions and mixed numbers >>
6 - 4: Decimal Forms of Fractions and Mixed Numbers	I.10 Convert between decimals and fractions >> I.11 Convert between decimals and mixed numbers >>
6 - 5: Draw a Picture	

Topic 7

Adding and Subtracting Fractions and Mixed Numbers

Textbook section	IXL skills
7 - 1: Adding and Subtracting: Like Denominators	J.1 Add and subtract fractions with like denominators >>
	J.2 Add and subtract fractions with like denominators: word problems >>
7 - 2: Least Common Multiple	E.8 Least common multiple >>
	E.9 GCF and LCM: word problems >>
7 - 3: Adding and Subtracting: Unlike Denominators	I.6 Least common denominator >>
	J.3 Add and subtract fractions with unlike denominators >>
	J.4 Add and subtract fractions with unlike denominators: word problems >>
7 - 4: Estimating Sums and Differences of Mixed Numbers	J.8 Estimate sums and differences of mixed numbers >>
7 - 5: Adding Mixed Numbers	
7 - 6: Subtracting Mixed Numbers	J.6 Add and subtract mixed numbers >>
	J.7 Add and subtract mixed numbers: word problems >>
7 - 7: Make a Table	

Topic 8

Multiplying Fractions Mixed Numbers

Textbook section	IXL skills
8 - 1: Multiplying a Fraction and a Whole Number	K.1 Fractions of whole numbers I >> K.2 Fractions of whole numbers II >> K.3 Fractions of a number: word problems >>
8 - 2: Estimating Products	
8 - 3: Multiplying Fractions	K.5 Multiply two fractions using models >> K.6 Multiply two fractions >> K.7 Multiply fractions: word problems >>
8 - 4: Multiplying Mixed Numbers	K.10 Multiply mixed numbers and whole numbers >> K.11 Multiply mixed numbers >> K.12 Multiply mixed numbers: word problems >>
8 - 5: Multiple - Step Problems	

Topic 9

Dividing Fractions and Mixed Numbers

Textbook section	IXL skills
9 - 1: Understanding Division of Fractions	L.1 Divide whole numbers by unit fractions using models >>
9 - 2: Dividing a Whole Number by a Fraction	L.1 Divide whole numbers by unit fractions using models >> L.2 Reciprocals >>
9 - 3: Dividing Fractions	L.4 Divide fractions by whole numbers in recipes >> L.5 Divide fractions >>
9 - 4: Estimating Quotients	
9 - 5: Dividing Mixed Numbers	L.7 Divide fractions and mixed numbers >>
9 - 6: Solving Equations	Z.7 Solve one-step equations with decimals, fractions, and mixed numbers >>
9 - 7: Look for a Pattern	

Topic 10

Integers

Textbook section	IXL skills
10 - 1: Understanding Integers	M.1 Understanding integers >> M.2 Integers on number lines >> M.3 Absolute value and opposite integers >>
10 - 2: Comparing and Ordering Integers	M.5 Compare integers >>
10 - 3: Rational Numbers on a Number Line	F.4 Put decimal numbers in order >> I.12 Put a mix of decimals, fractions, and mixed numbers in order >> P.1 Compare rational numbers >> P.2 Put rational numbers in order >>
10 - 4: Adding Integers	N.2 Add integers >> N.5 Add and subtract integers: find the sign >> <i>See also:</i> N.1 Add integers using counters >> N.7 Add three or more integers >>
10 - 5: Subtracting Integers	N.4 Subtract integers >> <i>See also:</i> N.3 Subtract integers using counters >> N.6 Add and subtract integers: input/output tables >>
10 - 6: Multiplying Integers	N.8 Multiply integers: find the sign >> N.9 Multiply integers >>
10 - 7: Dividing Integers	N.10 Divide integers: find the sign >> N.11 Divide integers >> <i>See also:</i> O.11 Evaluate numerical expressions involving integers >>
10 - 8: Absolute Value	M.3 Absolute value and opposite integers >>

10 - 9: Graphing Points on a Coordinate Plane**X.1** Objects on a coordinate plane >>**X.2** Graph points on a coordinate plane >>**X.4** Coordinate planes as maps >>**10 - 10:** Use Reasoning

Topic 11

Properties of Two-Dimensional Figures

Textbook section	IXL skills
11 - 1: Basic Geometric Ideas	CC.11 Lines, line segments, and rays >>
11 - 2: Measuring and Drawing Angles	CC.2 Measure and classify angles >> CC.3 Estimate angle measurements >> CC.12 Name angles >>
11 - 3: Angle Pairs	CC.13 Complementary and supplementary angles >>
11 - 4: Triangles	CC.4 Classify triangles >>
11 - 5: Quadrilaterals	CC.6 Classify quadrilaterals >> CC.8 Find missing angles in triangles >>
11 - 6: Circles	CC.16 Parts of a circle >> CC.17 Central angles of circles >>
11 - 7: Transformations and Congruence	DD.3 Translations: graph the image >> DD.4 Reflections: graph the image >> DD.5 Rotations: graph the image >> <i>See also:</i> DD.2 Reflection, rotation, and translation >>
11 - 8: Symmetry	DD.1 Symmetry >>
11 - 9: Make a Table and Look for a Pattern	

Topic 12

Ratios, Rates and Proportions

Textbook section	IXL skills
12 - 1: Understanding Ratios	R.1 Write a ratio >> R.2 Write a ratio: word problems >> <i>See also:</i> R.5 Ratio tables >>
12 - 2: Equal Ratios and Proportions	R.3 Identify equivalent ratios >> R.6 Equivalent ratios: word problems >> <i>See also:</i> R.5 Ratio tables >> R.8 Compare ratios: word problems >>
12 - 3: Understanding Rates and Unit Rates	R.7 Unit rates and equivalent rates >>
12 - 4: Comparing Rates	R.8 Compare ratios: word problems >>
12 - 5: Distance, Rate, and Time	
12 - 6: Draw a Picture	

Topic 13

Solving Proportions

Textbook section	IXL skills
13 - 1: Using Ratio Tables	R.5 Ratio tables >> R.10 Do the ratios form a proportion? >>
13 - 2: Using Unit Rates	R.7 Unit rates and equivalent rates >> R.9 Unit rates: word problems >>
13 - 3: Applying Ratios	R.9 Unit rates: word problems >>
13 - 4: Writing to Explain	
13 - 5: Ratios and Graphs	
13 - 6: Maps and Scale Drawings	R.12 Scale drawings: word problems >>

Topic 14

Understanding Percent

Textbook section	IXL skills
14 - 1: Understanding Percent	
14 - 2: Fractions, Decimals, and Percents	S.2 Convert between percents, fractions, and decimals >>
14 - 3: Percents Greater Than 100 and Less Than 1	
14 - 4: Estimating Percent	
14 - 5: Finding the Percent of a Number	S.5 Percents of numbers and money amounts >>
	S.6 Percents of numbers: word problems >>
	S.7 Percents of numbers - with fractional and decimal percents >>
	S.8 Find what percent one number is of another >>
	S.9 Find what percent one number is of another: word problems >>
14 - 6: Applying Percents: Finding the Whole	
14 - 7: Reasonableness	

Topic 15

Equations and Graphs

Textbook section	IXL skills
15 - 1: Equations with More Than One Operation	Z.6 Solve one-step equations with whole numbers >>
	Z.9 Solve two-step equations >>
15 - 2: Patterns and Equations	N.6 Add and subtract integers: input/output tables >>
	R.5 Ratio tables >>
15 - 3: More Patterns and Equations	BB.5 Complete a table for a two-variable relationship >>
	BB.6 Write a two-variable equation >>
	<i>See also:</i>
	BB.4 Solve word problems involving two-variable equations >>
15 - 4: Graphing Equations	BB.8 Graph a two-variable equation >>
15 - 5: Graphing Equations with More Than One Operation	BB.8 Graph a two-variable equation >>
15 - 6: Understanding Inequalities	AA.1 Solutions to inequalities >>
	AA.3 Write inequalities from number lines >>
15 - 7: Act It Out and Use Reasoning	

Topic 16

Measurement

Textbook section	IXL skills
16 - 1: Converting Customary Measures	T.3 Convert and compare customary units >>
16 - 2: Converting Metric Measures	T.2 Estimate metric measurements >>
	T.7 Convert and compare metric units >>
16 - 3: Units of Measure and Precision	
16 - 4: Relating Customary and Metric Measures	T.8 Convert between customary and metric systems >>
16 - 5: Elapsed Time	W.1 Elapsed time >>
	W.3 Find start and end times >>
16 - 6: Use Reasoning	

Topic 17

Perimeter and Area

Textbook section	IXL skills
17 - 1: Perimeter	FF.1 Perimeter >>
17 - 2: Area of Rectangles and Irregular Figures	FF.6 Area of compound figures >> FF.7 Area between two rectangles >>
17 - 3: Area of Parallelograms and Triangles	FF.5 Area of quadrilaterals >>
17 - 4: Circumference	
17 - 5: Area of a Circle	FF.11 Circles: calculate area, circumference, radius, and diameter >> FF.12 Circles: word problems >>
17 - 6: Use Objects	

Topic 18

Volume and Surface Area

Textbook section	IXL skills
18 - 1: Solid Figures	EE.1 Identify polyhedra >> EE.2 Which figure is being described? >> EE.3 Nets of three-dimensional figures >>
18 - 2: Surface Area	FF.15 Surface area of cubes and rectangular prisms >>
18 - 3: Volume of Rectangular Prisms	FF.14 Volume of cubes and rectangular prisms >>
18 - 4: Volume with Fractional Edge Lengths	
18 - 5: Use Objects and Reasoning	

Topic 19

Data and Graphs

Textbook section	IXL skills
19 - 1: Statistical Questions	
19 - 2: Looking at Data Sets	GG.3 Interpret line plots >> GG.5 Create and interpret line plots with fractions >>
19 - 3: Means	
19 - 4: Median, Mode, and Range	HH.1 Calculate mean, median, mode, and range >> <i>See also:</i> HH.2 Interpret charts and graphs to find mean, median, mode, and range >>
19 - 5: Frequency Tables and Histograms	GG.6 Create frequency tables >> GG.12 Create histograms >>
19 - 6: Box Plots	
19 - 7: Measures of Variability	
19 - 8: Appropriate Use of Statistical Measures	
19 - 9: Summarizing Data Distributions	
19 - 10: Try, Check, and Revise	