



IXL Skill Alignment

6th grade alignment for enVisionMATH 2011 Common Core Edition



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Topic 1

Numeration

Textbook section	IXL skills
1 - 1: Place Value	<ol style="list-style-type: none">Place values in whole numbers MNFWriting numbers in words: convert digits to words X9D
1 - 2: Comparing and Ordering Whole Numbers	
1 - 3: Exponents and Place Value	<ol style="list-style-type: none">Write multiplication expressions using exponents TY5Evaluate exponents XDA
1 - 4: Decimal Place Value	<ol style="list-style-type: none">Decimal place values CR8Word names for decimal numbers NF9
1 - 5: Multiplying and Dividing by 10, 100, and 1000	<ol style="list-style-type: none">Multiply and divide decimals by powers of ten KNH
1 - 6: Comparing and Ordering Decimals	
1 - 7: Make an Organized List	<ol style="list-style-type: none">Counting principle GDJ

Topic 2

Variables, Expressions and Properties

Textbook section	IXL skills
2 - 1: Use Variables to Write Expressions	1. Write variable expressions: word problems 6LQ
2 - 2: Properties of Operations	1. Properties of addition JRM 2. Properties of multiplication HC8
2 - 3: Order of Operations	
2 - 4: The Distributive Property	
2 - 5: Mental Math	
2 - 6: Evaluating Expressions	1. Evaluate variable expressions with whole numbers Q8Z
2 - 7: Using Expressions to Describe Patterns	1. Write a two-variable equation 2RE
2 - 8: Make a Table	1. Solve one-step equations: word problems BXY 2. Find a value using two-variable equations: word problems XRJ 3. Complete a table for a two-variable relationship TZB 4. Write a two-variable equation 2RE

Topic 3

Operations with Decimals

Textbook section	IXL skills
3 - 1: Estimating Sums and Differences	1. Estimate sums and differences of decimals SJ6
3 - 2: Adding and Subtracting	1. Add and subtract decimal numbers 79J 2. Add and subtract decimals: word problems 97T
3 - 3: Estimating Products and Quotients	1. Estimate products of decimal numbers EPL
3 - 4: Multiplying Decimals	1. Multiply decimals 2WT
3 - 5: Dividing Whole Numbers	
3 - 6: Dividing by a Whole Number	1. Divide decimals by whole numbers NLL 2. Divide decimals by whole numbers: word problems TWZ
3 - 7: Dividing Decimals	1. Division with decimal quotients BFR
3 - 8: Evaluating Expressions	
3 - 9: Solutions for Equations and Inequalities	1. Does x satisfy an equation? VMB 2. Solutions to inequalities P9N
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	1. Solve one-step equations with whole numbers WLR
4 - 5: Draw a Picture and Write an Equation	1. Write variable expressions: word problems 6LQ

Topic 5

Number and Fraction Concepts

Textbook section	IXL skills
5 - 1: Factors, Multiples, and Divisibility	<ol style="list-style-type: none">1. Divisibility rules WCD2. Identify factors BGJ
5 - 2: Prime Factorization	<ol style="list-style-type: none">1. Prime or composite DFC2. Prime factorization 9CP3. Prime factorization with exponents WLU
5 - 3: Greatest Common Factor	<ol style="list-style-type: none">1. Greatest common factor AMB
5 - 4: Understanding Fractions	<ol style="list-style-type: none">1. Fractions on number lines ULL2. Understanding fractions: word problems SG9
5 - 5: Equivalent Fractions	<ol style="list-style-type: none">1. Equivalent fractions review 9P3
5 - 6: Fractions in Simplest Form	<ol style="list-style-type: none">1. Write fractions in lowest terms 5EW
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	<ol style="list-style-type: none">1. What decimal number is illustrated? 42E2. Decimal place values CR8
6 - 3: Improper Fractions and Mixed Numbers	<ol style="list-style-type: none">1. Convert between improper fractions and mixed numbers P9A
6 - 4: Decimal Forms of Fractions and Mixed Numbers	<ol style="list-style-type: none">1. Convert between decimals and fractions FL52. Convert between decimals and mixed numbers PD8
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	<ol style="list-style-type: none"> 1. Add and subtract fractions with like denominators LNY 2. Add and subtract fractions with like denominators: word problems E56
7 - 2: Least Common Multiple	<ol style="list-style-type: none"> 1. Least common multiple NGA 2. GCF and LCM: word problems ZB8
7 - 3: Adding and Subtracting: Unlike Denominators	<ol style="list-style-type: none"> 1. Least common denominator V5M 2. Add and subtract fractions with unlike denominators AWS 3. Add and subtract fractions with unlike denominators: word problems WT5
7 - 4: Estimating Sums and Differences of Mixed Numbers	<ol style="list-style-type: none"> 1. Estimate sums and differences of mixed numbers LFH
7 - 5: Adding Mixed Numbers	
7 - 6: Subtracting Mixed Numbers	<ol style="list-style-type: none"> 1. Add and subtract mixed numbers TPZ 2. Add and subtract mixed numbers: word problems X8C
7 - 7: Make a Table	

Topic 8

Multiplying Fractions Mixed Numbers

Textbook section	IXL skills
8 - 1: Multiplying a Fraction and a Whole Number	<ol style="list-style-type: none">1. Fractions of whole numbers I CGR2. Fractions of whole numbers II RLN3. Fractions of a number: word problems 88T
8 - 2: Estimating Products	
8 - 3: Multiplying Fractions	<ol style="list-style-type: none">1. Multiply two fractions using models B7P2. Multiply two fractions BNT3. Multiply fractions: word problems 94H
8 - 4: Multiplying Mixed Numbers	<ol style="list-style-type: none">1. Multiply mixed numbers and whole numbers VUH2. Multiply mixed numbers Z9M3. Multiply mixed numbers: word problems 3P8
8 - 5: Multiple - Step Problems	

Topic 9

Dividing Fractions and Mixed Numbers

Textbook section	IXL skills
9 - 1: Understanding Division of Fractions	1. Divide whole numbers by unit fractions using models DXW
9 - 2: Dividing a Whole Number by a Fraction	1. Divide whole numbers by unit fractions using models DXW 2. Reciprocals 5BT
9 - 3: Dividing Fractions	1. Divide fractions by whole numbers in recipes ENK 2. Divide fractions DS2
9 - 4: Estimating Quotients	
9 - 5: Dividing Mixed Numbers	1. Divide fractions and mixed numbers N2B
9 - 6: Solving Equations	1. Solve one-step multiplication and division equations with decimals, fractions, and whole numbers T53
9 - 7: Look for a Pattern	

Topic 10

Integers

Textbook section	IXL skills
10 - 1: Understanding Integers	<ol style="list-style-type: none"> 1. Understanding integers 8EP 2. Integers on number lines K6J 3. Absolute value 2YZ
10 - 2: Comparing and Ordering Integers	<ol style="list-style-type: none"> 1. Compare integers 4G6
10 - 3: Rational Numbers on a Number Line	<ol style="list-style-type: none"> 1. Put decimal numbers in order QV2 2. Put a mix of decimals, fractions, and mixed numbers in order AWV 3. Compare rational numbers KS2 4. Put rational numbers in order 5AX
10 - 4: Adding Integers	<ol style="list-style-type: none"> 1. Add integers ZM6 2. Add and subtract integers: find the sign HBD <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add integers using counters 4J9 • Add three or more integers F2N
10 - 5: Subtracting Integers	<ol style="list-style-type: none"> 1. Subtract integers WQ6 <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Subtract integers using counters NYM • Add and subtract integers: input/output tables FLP
10 - 6: Multiplying Integers	<ol style="list-style-type: none"> 1. Multiply integers: find the sign DKA 2. Multiply integers J6V
10 - 7: Dividing Integers	<ol style="list-style-type: none"> 1. Divide integers: find the sign Q6T 2. Divide integers JZC <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Evaluate numerical expressions involving integers K6R



10 - 8: Absolute Value

1. Absolute value 2YZ

10 - 9: Graphing Points on a Coordinate Plane

1. Objects on a coordinate plane GFN
2. Graph points on a coordinate plane VHQ
3. Coordinate planes as maps N96

10 - 10: Use Reasoning

Topic 11

Properties of Two-Dimensional Figures

Textbook section	IXL skills
11 - 1: Basic Geometric Ideas	1. Lines, line segments, and rays 2GD
11 - 2: Measuring and Drawing Angles	1. Measure and classify angles HTH 2. Estimate angle measurements GY5 3. Name angles BLY
11 - 3: Angle Pairs	1. Complementary and supplementary angles 8WF
11 - 4: Triangles	1. Classify triangles XM6
11 - 5: Quadrilaterals	1. Classify quadrilaterals BCV 2. Find missing angles in triangles TFG
11 - 6: Circles	1. Parts of a circle 6JD 2. Central angles of circles 4N9
11 - 7: Transformations and Congruence	1. Translations: graph the image R7C 2. Reflections: graph the image K47 3. Rotations: graph the image WKH <i>Also consider</i> • Reflection, rotation, and translation HVB
11 - 8: Symmetry	1. Line symmetry PDS
11 - 9: Make a Table and Look for a Pattern	

Topic 12

Ratios, Rates and Proportions

Textbook section	IXL skills
12 - 1: Understanding Ratios	<ol style="list-style-type: none">1. Write a ratio 83K2. Write a ratio: word problems SBQ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Ratio tables PPF
12 - 2: Equal Ratios and Proportions	<ol style="list-style-type: none">1. Identify equivalent ratios 2LM2. Equivalent ratios: word problems RLZ <p><i>Also consider</i></p> <ul style="list-style-type: none">• Ratio tables PPF• Compare ratios: word problems 2HT
12 - 3: Understanding Rates and Unit Rates	<ol style="list-style-type: none">1. Unit rates JSZ
12 - 4: Comparing Rates	<ol style="list-style-type: none">1. Compare ratios: word problems 2HT
12 - 5: Distance, Rate, and Time	
12 - 6: Draw a Picture	

Topic 13

Solving Proportions

Textbook section	IXL skills
13 - 1: Using Ratio Tables	<ol style="list-style-type: none">1. Ratio tables PPF2. Do the ratios form a proportion? LVW
13 - 2: Using Unit Rates	<ol style="list-style-type: none">1. Unit rates JSZ2. Ratios and rates: word problems ZB9
13 - 3: Applying Ratios	<ol style="list-style-type: none">1. Ratios and rates: word problems ZB9
13 - 4: Writing to Explain	
13 - 5: Ratios and Graphs	
13 - 6: Maps and Scale Drawings	<ol style="list-style-type: none">1. Scale drawings: word problems UFW

Topic 14

Understanding Percent

Textbook section	IXL skills
14 - 1: Understanding Percent	
14 - 2: Fractions, Decimals, and Percents	1. Convert between percents, fractions, and decimals ZAV
14 - 3: Percents Greater Than 100 and Less Than 1	
14 - 4: Estimating Percent	
14 - 5: Finding the Percent of a Number	1. Percents of numbers and money amounts 8N4 2. Percents of numbers: word problems BBY 3. Percents of numbers: fractional and decimal percents CD5 4. Find what percent one number is of another PE7 5. Find what percent one number is of another: word problems 49B
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	<ol style="list-style-type: none"> Solve one-step equations with whole numbers WLR Solve two-step equations QVK
15 - 2: Patterns and Equations	<ol style="list-style-type: none"> Add and subtract integers: input/output tables FLP Ratio tables PPF
15 - 3: More Patterns and Equations	<ol style="list-style-type: none"> Complete a table for a two-variable relationship TZB Write a two-variable equation 2RE <p><i>Also consider</i></p> <ul style="list-style-type: none"> Find a value using two-variable equations: word problems XRJ
15 - 4: Graphing Equations	<ol style="list-style-type: none"> Graph a two-variable equation TJA
15 - 5: Graphing Equations with More Than One Operation	<ol style="list-style-type: none"> Graph a two-variable equation TJA
15 - 6: Understanding Inequalities	<ol style="list-style-type: none"> Solutions to inequalities P9N Write inequalities from number lines N99
15 - 7: Act It Out and Use Reasoning	

Topic 16

Measurement

Textbook section	IXL skills
16 - 1: Converting Customary Measures	1. Convert and compare customary units 9TJ
16 - 2: Converting Metric Measures	1. Estimate metric measurements V6Y 2. Convert and compare metric units FDH
16 - 3: Units of Measure and Precision	
16 - 4: Relating Customary and Metric Measures	1. Convert between customary and metric systems 5CF
16 - 5: Elapsed Time	1. Elapsed time 6E7 2. Find start and end times BAJ
16 - 6: Use Reasoning	

Topic 17

Perimeter and Area

Textbook section	IXL skills
17 - 1: Perimeter	1. Perimeter SEM
17 - 2: Area of Rectangles and Irregular Figures	1. Area of compound figures 76U 2. Area between two rectangles EY6
17 - 3: Area of Parallelograms and Triangles	1. Area of quadrilaterals 27F
17 - 4: Circumference	1. Circumference of circles N6W
17 - 5: Area of a Circle	1. Area of circles 4S5 2. Circles: word problems YTG
17 - 6: Use Objects	

Topic 18

Volume and Surface Area

Textbook section	IXL skills
18 - 1: Solid Figures	<ol style="list-style-type: none">1. Identify polyhedra WWL2. Which figure is being described? WPF3. Nets of three-dimensional figures 8KP
18 - 2: Surface Area	<ol style="list-style-type: none">1. Surface area of cubes and rectangular prisms RMG
18 - 3: Volume of Rectangular Prisms	<ol style="list-style-type: none">1. Volume of cubes and rectangular prisms XHF
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	<ol style="list-style-type: none">1. Interpret line plots M5Y2. Create and interpret line plots with fractions QZP
19 - 3: Means	
19 - 4: Median, Mode, and Range	<ol style="list-style-type: none">1. Calculate mean, median, mode, and range ZZK <p><i>Also consider</i></p> <ul style="list-style-type: none">• Interpret charts and graphs to find mean, median, mode, and range 2WK
19 - 5: Frequency Tables and Histograms	<ol style="list-style-type: none">1. Create frequency charts W8X2. Create histograms 7NG
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	