



IXL Skill Alignment

5th alignment for enVisionMATH Common Core Edition

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Topic 1

Place Value

Textbook section	IXL skills
1 - 1: Place Value	A.1 Convert between standard and expanded form >> A.5 Write word names for numbers >>
1 - 2: Tenths and Hundredths	G.1 What decimal number is illustrated? >>
1 - 3: Thousandths	G.1 What decimal number is illustrated? >> G.13 Convert mixed numbers to decimals >> G.15 Convert decimals to mixed numbers >>
1 - 4: Decimal Place Value	G.4 Place values in decimal numbers >> G.6 Equivalent decimals >>
1 - 5: Comparing and Ordering Decimals	G.9 Compare decimals on number lines >> G.10 Compare decimal numbers >> G.11 Put decimal numbers in order >>
1 - 6: Look for a Pattern	

Topic 2

Adding and Subtracting Decimals

Textbook section	IXL skills
2 - 1: Mental Math	
2 - 2: Rounding Whole Numbers and Decimals	A.7 Rounding >> G.7 Round decimals >>
2 - 3: Estimating Sums and Differences	H.8 Estimate sums and differences of decimals >> <i>See also:</i> B.8 Estimate sums and differences of whole numbers >> B.9 Estimate sums and differences: word problems >>
2 - 4: Modeling Addition and Subtraction of Differences	
2 - 5: Draw a Picture and Write an Equation	
2 - 6: Adding Decimals	H.1 Add decimal numbers >> <i>See also:</i> S.1 Add and subtract money amounts >>
2 - 7: Subtracting Decimals	H.2 Subtract decimal numbers >> <i>See also:</i> S.1 Add and subtract money amounts >>
2 - 8: Multiple-Step Problems	P.1 Multi-step word problems >>

Topic 3

Multiplying Whole Numbers

Textbook section	IXL skills
3 - 1: Multiplication	C.6 Properties of multiplication >>
3 - 2: Using Mental Math to Multiply	C.3 Multiplication patterns over increasing place values >> C.4 Multiply numbers ending in zeroes >> C.5 Multiply numbers ending in zeroes: word problems >>
3 - 3: Estimating Products	
3 - 4: Exponents	E.1 Understanding exponents >>
3 - 5: Distributive Property	
3 - 6: Multiplying by 1-Digit Numbers	C.1 Multiply by 1-digit numbers >> C.2 Multiply by 1-digit numbers: word problems >>
3 - 7: Multiplying 2-Digit by 2-Digit Numbers	C.12 Multiply by 2-digit numbers: complete the missing steps >> C.13 Multiply 2-digit numbers by 2-digit numbers >>
3 - 8: Multiplying Greater Numbers	C.14 Multiply 2-digit numbers by 3-digit numbers >> C.16 Multiply by 2-digit numbers: word problems >>
3 - 9: Draw a Picture and Write an Equation	

Topic 4

Dividing by 1-Digit Divisors

Textbook section	IXL skills
4 - 1: Dividing Multiples of 10 and 100	
4 - 2: Estimating Quotients	D.10 Estimate quotients: word problems >>
4 - 3: Reasonableness	
4 - 4: Connecting Models and Symbols	
4 - 5: Dividing by 1-Digit Divisors	D.3 Divide multi-digit numbers by 1-digit numbers >> D.4 Divide multi-digit numbers by 1-digit numbers: word problems >> D.5 Divide by 1-digit numbers: interpret remainders >>
4 - 6: Zeros in the Quotient	
4 - 7: Draw a Picture and Write an Equation	V.4 Write variable equations: word problems >>

Topic 5

Dividing by 2-Digit Divisors

Textbook section	IXL skills
5 - 1: Using Patterns to Divide	<p>D.6 Division patterns over increasing place values >></p> <p>D.7 Divide numbers ending in zeroes >></p> <p>D.8 Divide numbers ending in zeroes: word problems >></p>
5 - 2: Estimating Quotients with 2-Digit Divisors	
5 - 3: Connecting Models and Symbols	<p>D.11 Divide 2-digit and 3-digit numbers by 2-digit numbers >></p> <p>D.12 Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >></p>
5 - 4: Dividing by Multiples of 10	
5 - 5: 1-Digit Quotients	<p>D.11 Divide 2-digit and 3-digit numbers by 2-digit numbers >></p> <p>D.12 Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems >></p>
5 - 6: 2-Digit Quotients	
5 - 7: Estimating and Dividing with Greater Numbers	D.10 Estimate quotients: word problems >>
5 - 8: Missing or Extra Information	P.2 Word problems with extra or missing information >>

Topic 6

Multiplying Decimals

Textbook section	IXL skills
6 - 1: Multiplying Decimals by 10, 100, or 1,000	I.1 Estimate products of decimals >>
6 - 2: Estimating the Product of a Decimal and a Whole Number	
6 - 3: Number Sense: Decimal Multiplication	
6 - 4: Models for Multiplying Decimals	I.3 Multiply a decimal by a one-digit whole number >> I.7 Multiply two decimals using grids >>
6 - 5: Multiplying a Decimal by a Whole Number	I.3 Multiply a decimal by a one-digit whole number >> I.4 Multiply a decimal by a multi-digit whole number >> I.5 Multiply decimals and whole numbers: word problems >> S.3 Multiply money amounts: word problems >>
6 - 6: Multiplying Two Decimals	I.8 Multiply two decimals >>
6 - 7: Multiple-Step Problems	

Topic 7

Dividing Decimals

Textbook section

IXL skills

7 - 1: Dividing Decimals by 10, 100, or 1,000

7 - 2: Estimating Decimal Quotients

7 - 3: Number Sense: Decimal Division

7 - 4: Dividing by a Whole Number

J.3 Division with decimal quotients >>

J.5 Division with decimal quotients: word problems >>

See also:

J.4 Division with decimal quotients and rounding >>

7 - 5: Dividing a Whole Number by a Decimal

7 - 6: Dividing a Decimal by a Decimal

7 - 7: Multiple - Step Problems

Topic 8

Numerical Expressions, Patterns, and Relationships

Textbook section	IXL skills
8 - 1: Using Variables to Write Expressions	V.1 Write variable expressions >>
8 - 2: Order of Operations	O.4 Evaluate numerical expressions >>
8 - 3: Simplifying Expressions	O.4 Evaluate numerical expressions >>
8 - 4: Evaluating Expressions	
8 - 5: Addition and Subtraction Expressions	
8 - 6: Multiplication and Division Expressions	C.23 Multiplication input/output tables: find the rule >>
8 - 7: Patterns: Extending Tables	
8 - 8: Variables and Expressions	V.1 Write variable expressions >>
8 - 9: Act It Out and Use Reasoning	

Topic 9

Adding and Subtracting Fractions

Textbook section	IXL skills
9 - 1: Equivalent Fractions	K.4 Equivalent fractions >>
9 - 2: Fractions in Simplest Form	K.5 Write fractions in lowest terms >>
9 - 3: Writing to Explain	
9 - 4: Estimating Sums and Differences of Fractions	
9 - 5: Common Multiples and Least Common Multiple	F.7 Least common multiple >>
9 - 6: Finding Common Denominators	K.7 Least common denominator >>
9 - 7: Adding Fractions with Unlike Denominators	L.6 Add fractions with unlike denominators using models >>
	L.8 Add fractions with unlike denominators >>
	L.12 Add 3 or more fractions with unlike denominators >>
9 - 8: Subtracting Fractions with Unlike Denominators	L.9 Subtract fractions with unlike denominators using models >>
	L.10 Subtract fractions with unlike denominators >>
9 - 9: More Adding and Subtracting Fractions	L.8 Add fractions with unlike denominators >>
	L.10 Subtract fractions with unlike denominators >>
	L.11 Add and subtract fractions with unlike denominators: word problems >>
	<i>See also:</i> L.12 Add 3 or more fractions with unlike denominators >>
	L.13 Add 3 or more fractions: word problems >>
9 - 10: Draw a Picture and Write an Equation	

Topic 10

Adding and Subtracting Mixed Numbers

Textbook section	IXL skills
10 - 1: Improper Fractions and Mixed Numbers	K.6 Convert between improper fractions and mixed numbers >>
10 - 2: Estimating Sums and Differences of Mixed Numbers	K.14 Round mixed numbers >> L.17 Estimate sums and differences of mixed numbers >>
10 - 3: Modeling Addition and Subtraction of Mixed Numbers	
10 - 4: Adding Mixed Numbers	L.18 Add mixed numbers with unlike denominators >>
10 - 5: Subtracting Mixed Numbers	L.19 Subtract mixed numbers with unlike denominators >>
10 - 6: More Adding and Subtracting Mixed Numbers	L.18 Add mixed numbers with unlike denominators >> L.19 Subtract mixed numbers with unlike denominators >> L.20 Add and subtract mixed numbers: word problems >>
10 - 7: Draw a Picture and Write an Equation	

Topic 11

Multiplying and Dividing Fractions and Mixed Numbers

Textbook section	IXL skills
11 - 1: Fractions and Division	
11 - 2: Multiplying Fractions and Whole Numbers	M.8 Multiply fractions by whole numbers I >>
11 - 3: Estimating Products	M.22 Estimate products of mixed numbers >>
11 - 4: Multiplying Two Fractions	M.14 Multiply two fractions using models >> M.15 Multiply two fractions >> M.16 Multiply two fractions: word problems >> M.20 Multiply three or more fractions and whole numbers >>
11 - 5: Area of a Rectangle	
11 - 6: Multiplying Mixed Numbers	M.22 Estimate products of mixed numbers >> M.23 Multiply a mixed number by a whole number >> M.24 Multiply a mixed number by a fraction >> M.25 Multiply two mixed numbers >> M.27 Multiplication with mixed numbers: word problems >> M.28 Multiply fractions and mixed numbers in recipes >>
11 - 7: Multiplication as Scaling	M.17 Scaling whole numbers by fractions >> M.18 Scaling fractions by fractions >> M.19 Scaling mixed numbers by fractions >>
11 - 8: Multiple - Step Problems	
11 - 9: Dividing Whole Numbers by Unit Fractions	N.2 Divide whole numbers by unit fractions using models >> N.8 Divide whole numbers by fractions >>
11 - 10: Dividing Unit Fractions by Non - Zero Whole Numbers	N.7 Divide unit fractions by whole numbers: word problems >>

11 - 11: Draw a Picture and Write an Equation

Topic 12

Volume of Solids

Textbook section	IXL skills
12 - 1: Solids	DD.2 Count vertices, edges, and faces >> <i>See also:</i> DD.3 Nets of three-dimensional figures >>
12 - 2: Views of Solids	DD.4 Three-dimensional figures viewed from different perspectives >>
12 - 3: Use Objects and Solve a Simpler Problem	
12 - 4: Models and Volume	EE.11 Volume of rectangular prisms made of unit cubes >> <i>See also:</i> EE.12 Volume of irregular figures made of unit cubes >>
12 - 5: Volume	EE.13 Volume of cubes and rectangular prisms >>
12 - 6: Combining Volumes	
12 - 7: Use Objects and Reasoning	EE.12 Volume of irregular figures made of unit cubes >>

Topic 13

Units of Measure

Textbook section	IXL skills
13 - 1: Converting Customary Units of Length	Z.2 Compare and convert customary units of length >>
13 - 2: Converting Customary Units of Capacity	Z.4 Compare and convert customary units of volume >>
13 - 3: Converting Customary Units of Weight	Z.3 Compare and convert customary units of weight >>
	<i>See also:</i>
	Z.6 Conversion tables - customary units >>
	Z.15 Convert mixed customary units >>
13 - 4: Converting Metric Units of Length	Z.8 Compare and convert metric units of length >>
13 - 5: Converting Metric Units of Capacity	Z.10 Compare and convert metric units of volume >>
13 - 6: Converting Metric Units of Mass	Z.9 Compare and convert metric units of weight >>
	<i>See also:</i>
	Z.12 Conversion tables - metric units >>
13 - 7: Multiple - Step Problems	

Topic 14

Data

Textbook section	IXL skills
14 - 1: Line Plots	W.10 Interpret line plots >> W.11 Create line plots >>
14 - 2: Data from Surveys	W.10 Interpret line plots >> W.11 Create line plots >> W.13 Frequency charts >>
14 - 3: Making Line Plots	
14 - 4: Measurement Data	
14 - 5: Writing to Explain	

Topic 15

Classifying Plane Figures

Textbook section	IXL skills
15 - 1: Polygons	AA.1 Is it a polygon? >> AA.2 Number of sides in polygons >> AA.3 Regular and irregular polygons >> <i>See also:</i> BB.4 Parallel sides in quadrilaterals >>
15 - 2: Triangles	BB.3 Classify triangles >>
15 - 3: Properties of Quadrilaterals	BB.9 Classify quadrilaterals >>
15 - 4: Special Quadrilaterals	BB.9 Classify quadrilaterals >>
15 - 5: Classifying Quadrilaterals	BB.9 Classify quadrilaterals >>
15 - 6: Make and Test Generalizations	

Topic 16

Coordinate Geometry

Textbook section	IXL skills
16 - 1: Ordered Pairs	U.1 Objects on a coordinate plane >>
16 - 2: Distances on a Coordinate Plane	U.3 Coordinate planes as maps >>
16 - 3: Solve a Simpler Problem	U.3 Coordinate planes as maps >>
16 - 4: Patterns and Graphing	W.3 Create line graphs >>
16 - 5: More Patterns and Graphing	V.9 Complete a table from a graph >>
16 - 6: Work Backward	U.4 Follow directions on a coordinate plane >>