



# IXL Skill Alignment

5th grade alignment for enVisionMATH 2011 Common Core Edition



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# Topic 1

## Place Value

Textbook section	IXL skills
<b>1 - 1:</b> Place Value	<ol style="list-style-type: none"><li>Convert between standard and expanded form HU7</li><li>Writing numbers in words: convert digits to words DZS</li></ol>
<b>1 - 2:</b> Tenths and Hundredths	<ol style="list-style-type: none"><li>What decimal number is illustrated? CTP</li></ol>
<b>1 - 3:</b> Thousandths	<ol style="list-style-type: none"><li>What decimal number is illustrated? CTP</li><li>Convert mixed numbers to decimals 99M</li><li>Convert decimals to mixed numbers TBV</li></ol>
<b>1 - 4:</b> Decimal Place Value	<ol style="list-style-type: none"><li>Place values in decimal numbers X8U</li><li>Equivalent decimals C2X</li></ol>
<b>1 - 5:</b> Comparing and Ordering Decimals	<ol style="list-style-type: none"><li>Compare decimals on number lines CUF</li><li>Compare decimal numbers NSG</li><li>Put decimal numbers in order YUX</li></ol>
<b>1 - 6:</b> Look for a Pattern	

## Topic 2

### Adding and Subtracting Decimals

Textbook section	IXL skills
<b>2 - 1:</b> Mental Math	
<b>2 - 2:</b> Rounding Whole Numbers and Decimals	<ol style="list-style-type: none"><li>1. Rounding PVU</li><li>2. Round decimals MPB</li></ol>
<b>2 - 3:</b> Estimating Sums and Differences	<ol style="list-style-type: none"><li>1. Estimate sums and differences of decimals using rounding YGG</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Estimate sums and differences of whole numbers 9RM</li><li>• Estimate sums and differences: word problems KTA</li></ul>
<b>2 - 4:</b> Modeling Addition and Subtraction of Differences	
<b>2 - 5:</b> Draw a Picture and Write an Equation	
<b>2 - 6:</b> Adding Decimals	<ol style="list-style-type: none"><li>1. Add decimal numbers BDX</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Add and subtract money amounts A8R</li></ul>
<b>2 - 7:</b> Subtracting Decimals	<ol style="list-style-type: none"><li>1. Subtract decimal numbers SC8</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Add and subtract money amounts A8R</li></ul>
<b>2 - 8:</b> Multiple-Step Problems	<ol style="list-style-type: none"><li>1. Multi-step word problems Z76</li></ol>

## Topic 3

### Multiplying Whole Numbers

Textbook section	IXL skills
<b>3 - 1:</b> Multiplication	1. Properties of multiplication LUE
<b>3 - 2:</b> Using Mental Math to Multiply	1. Multiplication patterns over increasing place values BCK 2. Multiply numbers ending in zeroes 3V9 3. Multiply numbers ending in zeroes: word problems 8KY
<b>3 - 3:</b> Estimating Products	
<b>3 - 4:</b> Exponents	1. Understanding exponents VDP
<b>3 - 5:</b> Distributive Property	
<b>3 - 6:</b> Multiplying by 1-Digit Numbers	1. Multiply by 1-digit numbers 7H4 2. Multiply by 1-digit numbers: word problems 94W
<b>3 - 7:</b> Multiplying 2-Digit by 2-Digit Numbers	1. Multiply by 2-digit numbers: complete the missing steps 9LX 2. Multiply 2-digit numbers by 2-digit numbers LLJ
<b>3 - 8:</b> Multiplying Greater Numbers	1. Multiply 2-digit numbers by 3-digit numbers JHB 2. Multiply by 2-digit numbers: word problems J95
<b>3 - 9:</b> Draw a Picture and Write an Equation	

# Topic 4

## Dividing by 1-Digit Divisors

Textbook section	IXL skills
<b>4 - 1:</b> Dividing Multiples of 10 and 100	
<b>4 - 2:</b> Estimating Quotients	1. Estimate quotients: word problems HD6
<b>4 - 3:</b> Reasonableness	
<b>4 - 4:</b> Connecting Models and Symbols	
<b>4 - 5:</b> Dividing by 1-Digit Divisors	1. Divide multi-digit numbers by 1-digit numbers XHZ 2. Divide multi-digit numbers by 1-digit numbers: word problems 5DE 3. Divide by 1-digit numbers: interpret remainders 72W
<b>4 - 6:</b> Zeros in the Quotient	
<b>4 - 7:</b> Draw a Picture and Write an Equation	1. Write variable equations: word problems TVB

# Topic 5

## Dividing by 2-Digit Divisors

Textbook section	IXL skills
<b>5 - 1:</b> Using Patterns to Divide	<ol style="list-style-type: none"><li>1. Division patterns over increasing place values 8Z6</li><li>2. Divide numbers ending in zeroes J8Y</li><li>3. Divide numbers ending in zeroes: word problems G66</li></ol>
<b>5 - 2:</b> Estimating Quotients with 2-Digit Divisors	
<b>5 - 3:</b> Connecting Models and Symbols	<ol style="list-style-type: none"><li>1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA</li><li>2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW</li></ol>
<b>5 - 4:</b> Dividing by Multiples of 10	
<b>5 - 5:</b> 1-Digit Quotients	<ol style="list-style-type: none"><li>1. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA</li><li>2. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW</li></ol>
<b>5 - 6:</b> 2-Digit Quotients	
<b>5 - 7:</b> Estimating and Dividing with Greater Numbers	<ol style="list-style-type: none"><li>1. Estimate quotients: word problems HD6</li></ol>
<b>5 - 8:</b> Missing or Extra Information	<ol style="list-style-type: none"><li>1. Word problems with extra or missing information 9KF</li></ol>

# Topic 6

## Multiplying Decimals

Textbook section	IXL skills
<b>6 - 1:</b> Multiplying Decimals by 10, 100, or 1,000	1. Estimate products of decimals SL7
<b>6 - 2:</b> Estimating the Product of a Decimal and a Whole Number	
<b>6 - 3:</b> Number Sense: Decimal Multiplication	
<b>6 - 4:</b> Models for Multiplying Decimals	1. Multiply a decimal by a one-digit whole number XNY 2. Complete the decimal multiplication sentence using grids R9T
<b>6 - 5:</b> Multiplying a Decimal by a Whole Number	1. Multiply a decimal by a one-digit whole number XNY 2. Multiply a decimal by a multi-digit whole number PGM 3. Multiply decimals and whole numbers: word problems 83A 4. Multiply money amounts: word problems U5L
<b>6 - 6:</b> Multiplying Two Decimals	1. Multiply two decimals: products up to hundredths FLL
<b>6 - 7:</b> Multiple-Step Problems	

# Topic 7

## Dividing Decimals

Textbook section	IXL skills
<b>7 - 1:</b> Dividing Decimals by 10, 100, or 1,000	
<b>7 - 2:</b> Estimating Decimal Quotients	
<b>7 - 3:</b> Number Sense: Decimal Division	
<b>7 - 4:</b> Dividing by a Whole Number	<ol style="list-style-type: none"><li>1. Division with decimal quotients J9Z</li><li>2. Division with decimal quotients: word problems Z2X</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Division with decimal quotients and rounding M9X</li></ul>
<b>7 - 5:</b> Dividing a Whole Number by a Decimal	
<b>7 - 6:</b> Dividing a Decimal by a Decimal	
<b>7 - 7:</b> Multiple - Step Problems	



# Topic 8

## Numerical Expressions, Patterns, and Relationships

Textbook section	IXL skills
<b>8 - 1:</b> Using Variables to Write Expressions	1. Write variable expressions UZZ
<b>8 - 2:</b> Order of Operations	1. Evaluate numerical expressions Z5N
<b>8 - 3:</b> Simplifying Expressions	1. Evaluate numerical expressions Z5N
<b>8 - 4:</b> Evaluating Expressions	
<b>8 - 5:</b> Addition and Subtraction Expressions	
<b>8 - 6:</b> Multiplication and Division Expressions	1. Multiplication input/output tables: find the rule ZXB
<b>8 - 7:</b> Patterns: Extending Tables	
<b>8 - 8:</b> Variables and Expressions	1. Write variable expressions UZZ
<b>8 - 9:</b> Act It Out and Use Reasoning	

# Topic 9

## Adding and Subtracting Fractions

Textbook section	IXL skills
<b>9 - 1:</b> Equivalent Fractions	1. Equivalent fractions MKA
<b>9 - 2:</b> Fractions in Simplest Form	1. Write fractions in lowest terms A76
<b>9 - 3:</b> Writing to Explain	
<b>9 - 4:</b> Estimating Sums and Differences of Fractions	
<b>9 - 5:</b> Common Multiples and Least Common Multiple	1. Least common multiple BMQ
<b>9 - 6:</b> Finding Common Denominators	1. Least common denominator R7P
<b>9 - 7:</b> Adding Fractions with Unlike Denominators	1. Add fractions with unlike denominators using models 2BS 2. Add fractions with unlike denominators D9N 3. Add 3 or more fractions with unlike denominators PBF
<b>9 - 8:</b> Subtracting Fractions with Unlike Denominators	1. Subtract fractions with unlike denominators using models QA6 2. Subtract fractions with unlike denominators VSP
<b>9 - 9:</b> More Adding and Subtracting Fractions	1. Add fractions with unlike denominators D9N 2. Subtract fractions with unlike denominators VSP 3. Add and subtract fractions with unlike denominators: word problems TCD  <i>Also consider</i> <ul style="list-style-type: none"> <li>Add 3 or more fractions with unlike denominators PBF</li> <li>Add 3 or more fractions: word problems BFQ</li> </ul>
<b>9 - 10:</b> Draw a Picture and Write an Equation	

# Topic 10

## Adding and Subtracting Mixed Numbers

Textbook section	IXL skills
<b>10 - 1:</b> Improper Fractions and Mixed Numbers	1. Convert between improper fractions and mixed numbers B7X
<b>10 - 2:</b> Estimating Sums and Differences of Mixed Numbers	1. Round mixed numbers RYP 2. Estimate sums and differences of mixed numbers HUJ
<b>10 - 3:</b> Modeling Addition and Subtraction of Mixed Numbers	
<b>10 - 4:</b> Adding Mixed Numbers	1. Add mixed numbers with unlike denominators FHD
<b>10 - 5:</b> Subtracting Mixed Numbers	1. Subtract mixed numbers with unlike denominators FAA
<b>10 - 6:</b> More Adding and Subtracting Mixed Numbers	1. Add mixed numbers with unlike denominators FHD 2. Subtract mixed numbers with unlike denominators FAA 3. Add and subtract mixed numbers: word problems 6BH
<b>10 - 7:</b> Draw a Picture and Write an Equation	

# Topic 11

## Multiplying and Dividing Fractions and Mixed Numbers

Textbook section	IXL skills
<b>11 - 1:</b> Fractions and Division	
<b>11 - 2:</b> Multiplying Fractions and Whole Numbers	1. Multiply fractions by whole numbers I QFQ
<b>11 - 3:</b> Estimating Products	1. Estimate products of mixed numbers 76Y
<b>11 - 4:</b> Multiplying Two Fractions	1. Multiply two fractions using models UAY 2. Multiply two fractions 8KV 3. Multiply two fractions: word problems 38Y 4. Multiply three or more fractions and whole numbers ZDL
<b>11 - 5:</b> Area of a Rectangle	
<b>11 - 6:</b> Multiplying Mixed Numbers	1. Estimate products of mixed numbers 76Y 2. Multiply a mixed number by a whole number 6Q4 3. Multiply a mixed number by a fraction G7W 4. Multiply two mixed numbers P73 5. Multiplication with mixed numbers: word problems 5W6 6. Multiply fractions and mixed numbers in recipes QHN
<b>11 - 7:</b> Multiplication as Scaling	1. Scaling whole numbers by fractions QH2 2. Scaling fractions by fractions 9RF 3. Scaling mixed numbers by fractions S6B
<b>11 - 8:</b> Multiple - Step Problems	
<b>11 - 9:</b> Dividing Whole Numbers by Unit Fractions	1. Divide whole numbers by unit fractions using models VDU 2. Divide whole numbers by fractions RHL



**11 - 10:** Dividing Unit Fractions by Non - Zero Whole Numbers

1. Divide unit fractions and whole numbers: word problems G2N

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**11 - 11:** Draw a Picture and Write an Equation

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# Topic 12

## Volume of Solids

Textbook section	IXL skills
<b>12 - 1:</b> Solids	<ol style="list-style-type: none"><li>Count vertices, edges, and faces ZHF</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Nets of three-dimensional figures 9LV</li></ul>
<b>12 - 2:</b> Views of Solids	<ol style="list-style-type: none"><li>Three-dimensional figures viewed from different perspectives JRY</li></ol>
<b>12 - 3:</b> Use Objects and Solve a Simpler Problem	
<b>12 - 4:</b> Models and Volume	<ol style="list-style-type: none"><li>Volume of rectangular prisms made of unit cubes WG8</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>Volume of irregular figures made of unit cubes WCE</li></ul>
<b>12 - 5:</b> Volume	<ol style="list-style-type: none"><li>Volume of cubes and rectangular prisms TFL</li></ol>
<b>12 - 6:</b> Combining Volumes	
<b>12 - 7:</b> Use Objects and Reasoning	<ol style="list-style-type: none"><li>Volume of irregular figures made of unit cubes WCE</li></ol>

# Topic 13

## Units of Measure

Textbook section	IXL skills
<b>13 - 1:</b> Converting Customary Units of Length	1. Compare and convert customary units of length 7E8
<b>13 - 2:</b> Converting Customary Units of Capacity	1. Compare and convert customary units of volume 96B
<b>13 - 3:</b> Converting Customary Units of Weight	1. Compare and convert customary units of weight XST  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Conversion tables - customary units 7HU</li> <li>• Convert mixed customary units E8E</li> </ul>
<b>13 - 4:</b> Converting Metric Units of Length	1. Compare and convert metric units of length 8MZ
<b>13 - 5:</b> Converting Metric Units of Capacity	1. Compare and convert metric units of volume 27C
<b>13 - 6:</b> Converting Metric Units of Mass	1. Compare and convert metric units of weight TM9  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Conversion tables - metric units 7QS</li> </ul>
<b>13 - 7:</b> Multiple - Step Problems	

# Topic 14

## Data

Textbook section	IXL skills
<b>14 - 1:</b> Line Plots	<ol style="list-style-type: none"><li>1. Interpret line plots 79C</li><li>2. Create line plots ZBV</li></ol>
<b>14 - 2:</b> Data from Surveys	<ol style="list-style-type: none"><li>1. Interpret line plots 79C</li><li>2. Create line plots ZBV</li><li>3. Interpret frequency charts: one-step problems UEK</li></ol>
<b>14 - 3:</b> Making Line Plots	
<b>14 - 4:</b> Measurement Data	
<b>14 - 5:</b> Writing to Explain	



# Topic 15

## Classifying Plane Figures

Textbook section	IXL skills
<b>15 - 1:</b> Polygons	<ol style="list-style-type: none"><li>1. Is it a polygon? ZH6</li><li>2. Number of sides in polygons 4Z2</li><li>3. Regular and irregular polygons UHC</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Parallel sides in quadrilaterals AJV</li></ul>
<b>15 - 2:</b> Triangles	<ol style="list-style-type: none"><li>1. Classify triangles C64</li></ol>
<b>15 - 3:</b> Properties of Quadrilaterals	<ol style="list-style-type: none"><li>1. Classify quadrilaterals 6ZQ</li></ol>
<b>15 - 4:</b> Special Quadrilaterals	<ol style="list-style-type: none"><li>1. Classify quadrilaterals 6ZQ</li></ol>
<b>15 - 5:</b> Classifying Quadrilaterals	<ol style="list-style-type: none"><li>1. Classify quadrilaterals 6ZQ</li></ol>
<b>15 - 6:</b> Make and Test Generalizations	

# Topic 16

## Coordinate Geometry

Textbook section	IXL skills
<b>16 - 1:</b> Ordered Pairs	1. Objects on a coordinate plane NTR
<b>16 - 2:</b> Distances on a Coordinate Plane	1. Coordinate planes as maps ZBD
<b>16 - 3:</b> Solve a Simpler Problem	1. Coordinate planes as maps ZBD
<b>16 - 4:</b> Patterns and Graphing	1. Create line graphs KFZ
<b>16 - 5:</b> More Patterns and Graphing	1. Complete a table from a graph 2WL
<b>16 - 6:</b> Work Backward	1. Follow directions on a coordinate plane XQR