



IXL Skill Alignment

3rd grade alignment for enVisionMATH 2011 Common Core Edition



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Topic 1

Numeration

Textbook section	IXL skills
1 - 1: Representing Numbers	1. Write numbers in words 2GW 2. Place value models up to thousands DDS <i>Also consider</i> <ul style="list-style-type: none"> Place value word problems 5TF
1 - 2: Ways to Name Numbers	
1 - 3: Greater Numbers	1. Place value names up to thousands GEV 2. Value of a digit DHS 3. Convert from expanded form 8MP 4. Convert between standard and expanded form 2GS <i>Also consider</i> <ul style="list-style-type: none"> Convert to/from a number KSN
1 - 4: Understanding Number Lines	
1 - 5: Counting on the Number Line	1. Skip-counting LQM
1 - 6: Comparing Numbers	1. Compare numbers 56H
1 - 7: Ordering Numbers	1. Order numbers X92
1 - 8: Make an Organized List	1. Combinations 7A4

Topic 2

Number Sense: Addition and Subtraction

Textbook section	IXL skills
2 - 1: Addition Meaning and Properties	1. Complete the equation using properties of addition CGS
2 - 2: Subtraction Meanings	
2 - 3: Using Mental Math to Add	
2 - 4: Using Mental Math to Subtract	
2 - 5: Rounding	1. Rounding - nearest ten or hundred only Q65 <i>Also consider</i> <ul style="list-style-type: none">• Rounding puzzles SFM
2 - 6: Estimating Sums	1. Estimate sums MBN
2 - 7: Estimating Differences	
2 - 8: Making Sense of Addition and Subtraction Equations	1. Solve for the variable: addition and subtraction only BQT
2 - 9: Reasonableness	

Topic 3

Using Place Value to Add and Subtract

Textbook section	IXL skills
3 - 1: Addition with an Expanded Algorithm	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83 2. Add two numbers up to three digits: word problems QU2
3 - 2: Models for Adding 3-Digit Numbers	
3 - 3: Adding 3-Digit Numbers	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83 2. Add two numbers up to three digits: word problems QU2
3 - 4: Adding 3 or More Numbers	<ol style="list-style-type: none"> 1. Add three numbers up to three digits each GSY 2. Add three numbers up to three digits each: word problems NPU
3 - 5: Draw a Picture	
3 - 6: Subtracting with an Expanded Algorithm	<ol style="list-style-type: none"> 1. Subtract numbers up to three digits EHT 2. Subtract numbers up to three digits: word problems K88
3 - 7: Models for Subtracting 3-Digit Numbers	
3 - 8: Subtracting 3-Digit Numbers	<ol style="list-style-type: none"> 1. Subtract numbers up to three digits EHT 2. Subtract numbers up to three digits: word problems K88
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	<ol style="list-style-type: none">1. Count equal groups 9K72. Identify multiplication expressions for equal groups 9AE3. Write multiplication sentences for equal groups V984. Relate addition and multiplication for equal groups GGC
4 - 2: Arrays and Multiplication	<ol style="list-style-type: none">1. Write multiplication sentences for arrays 5FZ2. Make arrays to model multiplication PPR
4 - 3: The Commutative Property	<ol style="list-style-type: none">1. Write multiplication sentences for arrays 5FZ
4 - 4: Writing Multiplication Stories	<ol style="list-style-type: none">1. Multiplication word problems 9TA
4 - 5: Writing to Explain	

Topic 5

Multiplication Facts: Use Patterns

Textbook section	IXL skills
5 - 1: 2 and 5 as Factors	<ol style="list-style-type: none">1. Multiply by 2 94M2. Multiply by 5 Y9E
5 - 2: 9 as a Factor	<ol style="list-style-type: none">1. Multiply by 9 SUH
5 - 3: Multiplying with 0 and 1	<ol style="list-style-type: none">1. Multiply by 0 BGK2. Multiply by 1 CRE
5 - 4: Patterns for Facts	<ol style="list-style-type: none">1. Multiplication tables for 2, 3, 4, 5, and 10 DW5 <p><i>Also consider</i></p> <ul style="list-style-type: none">• Number sequences 7Y5
5 - 5: 10 as a factor	<ol style="list-style-type: none">1. Multiply by 10 6YD
5 - 6: Multiplying by Multiples of 10	<ol style="list-style-type: none">1. Multiply by a multiple of ten MS6
5 - 7: Two-Question Problems	

Topic 6

Multiplication Facts: Use Known Facts

Textbook section	IXL skills
6 - 1: The Distributive Property	1. Distributive property: find the missing factor 7VP
6 - 2: 3 as a Factor	1. Multiply by 3 38K
6 - 3: 4 as a Factor	1. Multiply by 4 5U6
6 - 4: 6 and 7 as Factors	1. Multiply by 6 SX6 2. Multiply by 7 9PT
6 - 5: 8 as a Factor	1. Multiply by 8 SMR
6 - 6: Multiplying with 3 Factors	
6 - 7: Multiplication Facts	1. Multiplication tables for 2, 3, 4, 5, and 10 DW5 2. Multiplication tables for 6, 7, 8, and 9 XT7 3. Multiplication tables up to 10 PNV <i>Also consider</i> • Multiplication facts for 2, 3, 4, 5, and 10: sorting REN • Multiplication facts for 6, 7, 8, and 9: sorting TZ7 • Multiplication facts up to 10: sorting SUJ
6 - 8: Multiplying to Find Combinations	1. Combinations 7A4
6 - 9: Multiple-Step Problems	1. Two-step mixed operation word problems SRL

Topic 7

Meanings of Division

Textbook section	IXL skills
7 - 1: Division as Sharing	
7 - 2: Division as Repeated Subtraction	1. Division word problems <small>ECS</small>
7 - 3: Finding Missing Numbers in a Multiplication Table	1. Division facts for 2, 3, 4, 5, and 10 <small>2JB</small> 2. Division facts up to 10 <small>M8T</small> 3. Division word problems <small>ECS</small> <i>Also consider</i> <ul style="list-style-type: none"> Solve for the variable: multiplication and division only <small>AL9</small>
7 - 4: Choose an Appropriate Equation	
7 - 5: Writing Division Stories	1. Division facts for 2, 3, 4, 5, and 10 <small>2JB</small>
7 - 6: Use Objects and Draw a Picture	

Topic 8

Division Facts

Textbook section	IXL skills
8 - 1: Relating Multiplication and Division	1. Relate multiplication and division 67L
8 - 2: Fact Families with 2,3,4, and 5	1. Division facts for 2, 3, 4, 5, and 10 2JB <i>Also consider</i> • Division facts for 2, 3, 4, 5, and 10: sorting XDN
8 - 3: Fact Families with 6 and 7	1. Divide by 6 97S 2. Divide by 7 D2F
8 - 4: Fact Families with 8 and 9	1. Divide by 8 CVD 2. Divide by 9 RTB <i>Also consider</i> • Division facts for 6, 7, 8, and 9: sorting KQR
8 - 5: Multiple-Step Problems	
8 - 6: Making Sense of Multiplication and Division Equations	1. Solve for the variable: multiplication and division only AL9
8 - 7: Dividing with 0 and 1	1. Divide by 1 VTL
8 - 8: Multiplication and Division Facts	1. Multiplication tables up to 10 PNV 2. Division facts up to 10 M8T 3. Division facts up to 10: sorting CYJ 4. Division facts up to 10: find the missing number HE7
8 - 9: Draw a Picture and Write a Number Sentence	1. Division word problems ECS

Topic 9

Understanding Fractions

Textbook section	IXL skills
9 - 1: Dividing Regions into Equal Parts	<ol style="list-style-type: none"> 1. Identify equal parts FHY 2. Match fractions to models: halves, thirds, and fourths Y55
9 - 2: Fractions and Regions	<ol style="list-style-type: none"> 1. Understand fractions: area models RTW 2. Match unit fractions to models CPK 3. Match fractions to models YHL
9 - 3: Fractions and Sets	<ol style="list-style-type: none"> 1. Fractions of a group: word problems Z65 2. Fractions of a number - unit fractions: word problems C9P 3. Fractions of a number: word problems 9HF
9 - 4: Fractional Parts of a Set	<ol style="list-style-type: none"> 1. Fractions of a number - unit fractions W5M
9 - 5: Locating Fractions on the Number Line	<ol style="list-style-type: none"> 1. Identify unit fractions on number lines JVC 2. Identify fractions on number lines AWH 3. Graph unit fractions on number lines CBW 4. Graph fractions on number lines 7QM
9 - 6: Benchmark Fractions	<ol style="list-style-type: none"> 1. Benchmark fractions EEU <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Identify unit fractions on number lines JVC
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	1. Graph and compare fractions with like denominators on number lines 63U
10 - 2: Using Models to Compare Fractions: Same Numerator	1. Graph and compare fractions with like numerators on number lines ZPD
10 - 3: Comparing Fractions Using Benchmarks	1. Compare fractions 78D
10 - 4: Comparing Fractions on the Number Line	1. Graph and compare fractions with like denominators on number lines 63U 2. Graph and compare fractions with like numerators on number lines ZPD 3. Graph and compare fractions on number lines 6H5 4. Compare fractions 78D
10 - 5: Find Equivalent Fractions	1. Find equivalent fractions using area models: two models ZJ2 2. Find equivalent fractions WMX 3. Write fractions in lowest terms YM2
10 - 6: Equivalent Fractions and the Number Line	1. Identify equivalent fractions on number lines HYM 2. Find equivalent fractions using number lines JL8 <i>Also consider</i> <ul style="list-style-type: none"> Graph fractions equivalent to 1 on number lines 7BL
10 - 7: Whole Numbers and Fractions	1. Graph fractions equivalent to 1 on number lines 7BL 2. Find fractions equivalent to whole numbers KCE
10 - 8: Using Fractions	1. Graph and compare fractions on number lines 6H5 2. Compare fractions 78D



3. Order fractions with like denominators HYZ
4. Order fractions with like numerators PCW
5. Order fractions GBA

10 - 9: Draw a Picture

Topic 11

Two-Dimensional Shapes and Their Attributes

Textbook section	IXL skills
11 - 1: Lines and Line Segments	<ol style="list-style-type: none"> 1. Lines, line segments, and rays 24L 2. Parallel, perpendicular, and intersecting lines 9SX
11 - 2: Angles	<ol style="list-style-type: none"> 1. Angles greater than, less than, or equal to a right angle 2YR
11 - 3: Polygons	<ol style="list-style-type: none"> 1. Is it a polygon? C2P 2. Parallel sides in quadrilaterals 6E9
11 - 4: Triangles	<ol style="list-style-type: none"> 1. Acute, obtuse, and right triangles LRU 2. Scalene, isosceles, and equilateral triangles CXV
11 - 5: Quadrilaterals	<ol style="list-style-type: none"> 1. Classify quadrilaterals CNJ
11 - 6: Combining and Separating Shapes	
11 - 7: Making New Shapes	
11 - 8: Solve a Simpler Problem	<ol style="list-style-type: none"> 1. Two-step mixed operation word problems SRL
11 - 9: Make and Test Generalizations	<ol style="list-style-type: none"> 1. Classify quadrilaterals CNJ <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Parallel sides in quadrilaterals 6E9

Topic 12

Time

Textbook section	IXL skills
12 - 1: Time to the Half Hour and Quarter Hour	1. Read clocks and write times 5ZQ
12 - 2: Time to the Minute	1. Read clocks and write times 5ZQ
12 - 3: Units of Time	1. Relate time units GKF <i>Also consider</i> <ul style="list-style-type: none">Convert between hours and fractions of hours YRP
12 - 4: Elapsed Time	1. Elapsed time: find the end time U7B 2. Elapsed time word problems: find the elapsed time V9D
12 - 5: Work Backward	

Topic 13

Perimeter

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

Topic 14

Area

Textbook section	IXL skills
14 - 1: Converting Regions	1. Find the area of figures made of unit squares FLQ
14 - 2: Area and Units	1. Create rectangles with a given area V73
14 - 3: Standard Units	1. Find the area of figures made of unit squares FLQ
14 - 4: Area of Squares and Rectangles	1. Find the area of rectangles and squares 8KJ 2. Find the area of rectangles: word problems 5HA
14 - 5: Area and the Distributive Property	
14 - 6: Solve a Simpler Problem	1. Find the area between two rectangles KH6
14 - 7: Area of Irregular Shapes	1. Find the area of complex figures SGP
14 - 8: Same Area, Different Perimeter	1. Relationship between area and perimeter: find the perimeter ZWF
14 - 9: Equal Area and Fractions	1. Understand fractions: area models RTW 2. Show fractions: area models NLE
14 - 10: Selecting Appropriate Measurement Units and Tools	1. Which customary unit is appropriate? 54W 2. Which metric unit is appropriate? FQ8

Topic 15

Liquid Volume and Mass

Textbook section	IXL skills
15 - 1: Customary Units of Capacity	1. Compare and convert customary units of volume <small>MRB</small>
15 - 2: Metric Units of Capacity	1. Compare and convert metric units of volume <small>RK2</small>
15 - 3: Units of Mass	1. Compare and convert metric units of weight <small>C9Z</small>
15 - 4: Units of Weight	1. Compare and convert customary units of weight <small>WXA</small>
15 - 5: Draw a Picture	

Topic 16

Data

Textbook section	IXL skills
16 - 1: Line Plots	1. Interpret line plots YXD
16 - 2: Length and Line Plots	1. Interpret line plots YXD 2. Create line plots H5J
16 - 3: Reading Pictographs and Bar Graphs	1. Interpret bar graphs V54 2. Interpret pictographs Y5D
16 - 4: Making Pictographs	1. Create pictographs AVG
16 - 5: Making Bar Graphs	1. Create bar graphs RPF
16 - 6: Use Tables and Graphs to Draw Conclusions	1. Interpret tally charts 8CW 2. Interpret bar graphs V54 3. Create bar graphs RPF 4. Interpret pictographs Y5D 5. Create pictographs AVG