



IXL Skill Alignment

4th alignment for enVisionMATH Common Core Edition

This document includes the IXL skill alignments to Pearson Education, Inc.'s **enVisionMATH Common Core Edition**. IXL provides skill alignments as a service to teachers, students, and parents. The following skill alignments are not affiliated with, sponsored by, or endorsed by the publisher of the referenced textbook. IXL and IXL Learning are registered trademarks of IXL Learning, Inc. All other trademarks and registered trademarks are the property of their respective owners.

Topic 1

Multiplication and Division: Meaning and Facts

Textbook section	IXL skills
1 - 1: Meanings of Multiplication	
1 - 2: Patterns for Facts	<p>D.1 Multiplication facts to 12 >></p> <p><i>See also:</i></p> <p>D.4 Choose the multiples of a given number up to 12 >></p>
1 - 3: Multiplication Properties	<p>D.1 Multiplication facts to 12 >></p>
1 - 4: 3, 4, 6, 7, and 8 as Factors	<p>D.1 Multiplication facts to 12 >></p> <p>D.10 Properties of multiplication >></p> <p>D.11 Distributive property: find the missing factor >></p> <p><i>See also:</i></p> <p>D.29 Inequalities with multiplication >></p>
1 - 5: Look for a Pattern	<p>B.8 Addition patterns over increasing place values >></p> <p><i>See also:</i></p> <p>L.7 Use a rule to complete a number pattern >></p> <p>L.8 Number patterns: word problems >></p> <p>L.9 Number patterns: mixed review >></p>
1 - 6: Meanings of Division	<p>E.2 Division facts to 12: word problems >></p>
1 - 7: Relating Multiplication and Division	<p>D.2 Multiplication facts up to 12: find the missing factor >></p> <p><i>See also:</i></p> <p>E.12 Choose numbers with a particular quotient >></p>
1 - 8: Special Quotients	<p>E.3 Properties of division >></p>

1 - 9: Using Multiplication Facts to Find Division Facts

- D.2** Multiplication facts up to 12: find the missing factor >>
- E.1** Division facts to 12 >>
- E.2** Division facts to 12: word problems >>

1 - 10: Draw a Picture and Write an Equation

Topic 2

Generate and Analyze Patterns

Textbook section	IXL skills
2 - 1: Repeating Patterns	
2 - 2: Number Sequences	
2 - 3: Extending Tables	H.1 Input/output tables with addition, subtraction, multiplication, and division >>
2 - 4: Writing Rules for Situations	H.1 Input/output tables with addition, subtraction, multiplication, and division >>
2 - 5: Geometric Patterns	H.1 Input/output tables with addition, subtraction, multiplication, and division >>
2 - 6: Act It Out and Use Reasoning	

Topic 3

Place Value

Textbook section	IXL skills
3 - 1: Representing Numbers	A.2 Convert between standard and expanded form >> A.10 Write word names for numbers up to one million >>
3 - 2: Place Value Relationships	A.4 Convert between place values >>
3 - 3: Comparing Numbers	
3 - 4: Ordering Numbers	
3 - 5: Rounding Whole Numbers	A.16 Rounding >>
3 - 6: Make an Organized List	V.12 Combinations >>

Topic 4

Addition and Subtraction of Whole Numbers

Textbook section	IXL skills
4 - 1: Using Mental Math to Add and Subtract	
4 - 2: Estimating Sums and Differences of Whole Numbers	B.10 Estimate sums >> B.11 Estimate sums: word problems >> C.8 Estimate differences >> C.9 Estimate differences: word problems >>
4 - 3: Adding Whole Numbers	B.2 Add numbers up to millions >> B.4 Add numbers up to millions: word problems >> <i>See also:</i> B.7 Add 3 or more numbers up to millions >>
4 - 4: Subtracting Whole Numbers	C.2 Subtract numbers up to millions >> C.4 Subtract numbers up to millions: word problems >>
4 - 5: Subtracting Across Zeros	C.2 Subtract numbers up to millions >> C.4 Subtract numbers up to millions: word problems >>
4 - 6: Draw a Picture and Write an Equation	G.2 Write variable expressions: word problems >> G.4 Write variable equations to represent word problems >>

Topic 5

Number Sense: Multiplying by 1-Digit Numbers

Textbook section	IXL skills
5 - 1: Arrays and Multiplying by 10 and 100	
5 - 2: Multiplying by Multiples of 10 and 100	D.9 Multiplication patterns over increasing place values >>
5 - 3: Breaking Apart to Multiply	D.11 Distributive property: find the missing factor >> D.12 Multiply using the distributive property >>
5 - 4: Using Mental Math to Multiply	
5 - 5: Using Rounding to Estimate	D.13 Estimate products - multiply by 1-digit numbers >>
5 - 6: Reasonableness	

Topic 6

Developing Fluency: Multiplying by 1-Digit Numbers

Textbook section	IXL skills
6 - 1: Arrays and Using an Expanded Algorithm	D.1 Multiplication facts to 12 >> D.6 Multiply 1-digit numbers by 2-digit numbers >>
6 - 2: Connecting the Expanded and Standard Algorithms	D.6 Multiply 1-digit numbers by 2-digit numbers >>
6 - 3: Multiplying 2-Digit by 1-Digit Numbers	D.6 Multiply 1-digit numbers by 2-digit numbers >>
6 - 4: Multiplying 3- and 4-Digit Numbers by 1-Digit Numbers	D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
6 - 5: Multiplying by 1-Digit Numbers	D.6 Multiply 1-digit numbers by 2-digit numbers >> D.7 Multiply 1-digit numbers by 3-digit or 4-digit numbers >>
6 - 6: Missing or Extra Information	F.4 Word problems with extra or missing information >>

Topic 7

Number Sense: Multiplying by 2-Digit Numbers

Textbook section	IXL skills
7 - 1: Arrays and Multiplying 2-Digit Numbers by Multiples of 10	
7 - 2: Using Mental Math to Multiply 2-Digit Numbers	
7 - 3: Using Rounding to Estimate	D.14 Estimate products - multiply by larger numbers >> D.15 Estimate products: word problems >>
7 - 4: Using Compatible Numbers to Estimate	D.14 Estimate products - multiply by larger numbers >> D.15 Estimate products: word problems >>
7 - 5: Multiple-Step Problems	F.6 Multi-step word problems >>

Topic 8

Developing Fluency: Multiplying by 2-Digit Numbers

Textbook section	IXL skills
8 - 1: Arrays and Multiplying 2-Digit Numbers	D.16 Box multiplication >> D.19 Multiply a 2-digit number by a 2-digit number >> D.20 Multiply a 2-digit number by a 2-digit number: word problems >>
8 - 2: Arrays and an Expanded Algorithm	D.19 Multiply a 2-digit number by a 2-digit number >> D.20 Multiply a 2-digit number by a 2-digit number: word problems >> <i>See also:</i> D.18 Multiply a 2-digit number by a 2-digit number: complete the missing steps >>
8 - 3: Multiplying 2-Digit Numbers by Multiples of 10	
8 - 4: Multiplying 2-Digit by 2-Digit Numbers	D.18 Multiply a 2-digit number by a 2-digit number: complete the missing steps >> D.19 Multiply a 2-digit number by a 2-digit number >> D.20 Multiply a 2-digit number by a 2-digit number: word problems >>
8 - 5: Two-Question Problems	F.6 Multi-step word problems >>

Topic 9

Number Sense: Dividing by 1-Digit Divisors

Textbook section	IXL skills
9 - 1: Using Mental Math to Divide	E.1 Division facts to 12 >> E.2 Division facts to 12: word problems >> E.13 Division patterns over increasing place values >>
9 - 2: Estimating Quotients	
9 - 3: Estimating Quotients for Greater Dividends	E.15 Divide by 1-digit numbers: estimate quotients >>
9 - 4: Dividing with Remainders	E.4 Divide 2-digit numbers by 1-digit numbers >> E.5 Divide 2-digit numbers by 1-digit numbers: word problems >>
9 - 5: Multiplication and Division Stories	E.5 Divide 2-digit numbers by 1-digit numbers: word problems >>
9 - 6: Draw a Picture and Write an Equation	G.4 Write variable equations to represent word problems >>

Topic 10

Developing Fluency: Dividing by 1-Digit Divisors

Textbook section	IXL skills
10 - 1: Using Objects to Divide: Division as Repeated Subtraction	E.1 Division facts to 12 >>
	E.2 Division facts to 12: word problems >>
10 - 2: Division as Repeated Subtraction	
10 - 3: Using Objects to Divide: Division as Sharing	E.4 Divide 2-digit numbers by 1-digit numbers >>
	E.5 Divide 2-digit numbers by 1-digit numbers: word problems >>
10 - 4: Dividing 2-Digit by 1-Digit Numbers	E.4 Divide 2-digit numbers by 1-digit numbers >>
	E.5 Divide 2-digit numbers by 1-digit numbers: word problems >>
	E.7 Divide 2-digit numbers by 1-digit numbers: interpret remainders >>
10 - 5: Dividing 3-Digit by 1-Digit Numbers	E.8 Divide larger numbers by 1-digit numbers >>
	E.9 Divide larger numbers by 1-digit numbers: word problems >>
10 - 6: Deciding Where to Start Dividing	E.8 Divide larger numbers by 1-digit numbers >>
	E.9 Divide larger numbers by 1-digit numbers: word problems >>
10 - 7: Dividing 4-Digit Numbers by 1-Digit Numbers	E.8 Divide larger numbers by 1-digit numbers >>
	E.9 Divide larger numbers by 1-digit numbers: word problems >>
10 - 8: Multiple-Step Problems	F.6 Multi-step word problems >>

Topic 11

Fraction Equivalence and Ordering

Textbook section	IXL skills
11 - 1: Factors	<p>D.2 Multiplication facts up to 12: find the missing factor >></p> <p>D.5 Identify factors >></p>
11 - 2: Prime and Composite Factors	A.14 Prime and composite - up to 20 >>
11 - 3: Multiples	D.4 Choose the multiples of a given number up to 12 >>
11 - 4: Equivalent Fractions	<p>P.5 Find equivalent fractions using area models >></p> <p>P.7 Equivalent fractions >></p> <p><i>See also:</i></p> <p>P.9 Patterns of equivalent fractions >></p>
11 - 5: Number Lines and Equivalent Fractions	P.6 Graph equivalent fractions on number lines >>
11 - 6: Comparing Fractions	<p>P.11 Compare fractions with like numerators or denominators using models >></p> <p>P.12 Graph and compare fractions with like numerators or denominators on number lines >></p> <p>P.13 Compare fractions with like numerators or denominators >></p> <p>P.14 Compare fractions using models >></p> <p>P.16 Compare fractions using benchmarks >></p> <p>P.17 Compare fractions >></p>
11 - 7: Ordering Fractions	<p>P.19 Graph and order fractions on number lines >></p> <p>P.20 Order fractions with like numerators or denominators >></p> <p>P.21 Order fractions >></p>
11 - 8: Writing to Explain	

Topic 12

Adding and Subtracting Fractions and Mixed Numbers with Like Denominators

Textbook section	IXL skills
12 - 1: Modeling Addition of Fractions	
12 - 2: Adding Fractions with Like Denominators	
12 - 3: Modeling Subtraction of Fractions	
12 - 4: Subtraction Fractions with Like Denominators	<p>Q.9 Add and subtract fractions with like denominators >></p> <p>Q.11 Add and subtract fractions with like denominators: word problems >></p>
12 - 5: Adding and Subtraction on the Number Line	<p>Q.4 Add fractions with like denominators using number lines >></p> <p>Q.6 Subtract fractions with like denominators using number lines >></p> <p>Q.9 Add and subtract fractions with like denominators >></p> <p>Q.11 Add and subtract fractions with like denominators: word problems >></p>
12 - 6: Improper Fractions and Mixed Numbers	<p>P.4 Mixed number review >></p> <p>P.23 Convert between improper fractions and mixed numbers >></p>
12 - 7: Modeling Addition and Subtraction of Mixed Numbers	Q.14 Add and subtract mixed numbers with like denominators >>
12 - 8: Addition of Mixed Numbers	
12 - 9: Subtraction of Mixed Numbers	
12 - 10: Decomposing and Composing Fractions	<p>Q.1 Decompose fractions into unit fractions >></p> <p>Q.2 Decompose fractions >></p> <p><i>See also:</i></p> <p>Q.3 Decompose fractions multiple ways >></p>

12 - 11: Draw a Picture and Write an Equation

Topic 13

Extending Fraction Concepts

Textbook section	IXL skills
13 - 1: Fractions as Multiple of Unit Fractions: Using Models	S.1 Multiply unit fractions by whole numbers using number lines >>
13 - 2: Multiplying a Fraction by a Whole Number: Using Models	S.7 Multiply fractions by whole numbers using number lines >>
	S.13 Multiply fractions and mixed numbers by whole numbers in recipes >>
13 - 3: Multiplying a Fraction by a Whole Number: Using Symbols	S.5 Multiply unit fractions by whole numbers >>
	S.6 Multiply unit fractions by whole numbers: word problems >>
	S.10 Multiply fractions by whole numbers >>
	S.12 Multiply fractions by whole numbers: word problems >>
13 - 4: Fractions and Decimals	S.13 Multiply fractions and mixed numbers by whole numbers in recipes >>
	T.1 What decimal number is illustrated? >>
13 - 5: Fractions and Decimals on a Number Line	<i>See also:</i>
	T.11 Convert decimals to fractions and mixed numbers >>
13 - 6: Equivalent Fractions and Decimals	T.6 Graph decimals on number lines >>
	T.7 Decimal number lines >>
	T.8 Graph fractions as decimals on number lines >>
13 - 6: Equivalent Fractions and Decimals	T.10 Convert fractions and mixed numbers to decimals >>
	T.11 Convert decimals to fractions and mixed numbers >>
	<i>See also:</i>
	T.8 Graph fractions as decimals on number lines >>
	T.19 Compare decimals and fractions >>

13 - 7: Decimal Place Value

- T.1** What decimal number is illustrated? >>
- T.3** Understanding decimals expressed in words >>
- T.12** Convert decimals between standard and expanded form using fractions >>

See also:

- T.4** Place values in decimal numbers >>

13 - 8: Comparing and Ordering Decimals

- T.15** Compare decimal numbers >>
- T.16** Put decimal numbers in order I >>

See also:

- T.17** Put decimal numbers in order II >>
- T.18** Compare decimals and fractions on number lines >>

13 - 9: Using Money to Understand Decimals

13 - 10: Draw a Picture

Topic 14

Measurement Units and Conversions

Textbook section	IXL skills
14 - 1: Using Customary Units of Length	
14 - 2: Customary Units of Capacity	
14 - 3: Units of Weight	N.2 Which customary unit is appropriate? >>
14 - 4: Changing Customary Units	N.3 Compare and convert customary units of length >>
	N.4 Compare and convert customary units of weight >>
	N.5 Compare and convert customary units of volume >>
	N.6 Compare and convert customary units >>
	N.8 Compare customary units by multiplying >>
	<i>See also:</i>
	N.7 Conversion tables - customary units >>
14 - 5: Writing to Explain	
14 - 6: Using Metric Units of Length	
14 - 7: Metric Units of Capacity	
14 - 8: Units of Mass	N.11 Which metric unit is appropriate? >>
14 - 9: Changing Metric Units	N.12 Compare and convert metric units of length >>
	N.13 Compare and convert metric units of weight >>
	N.14 Compare and convert metric units of volume >>
	N.15 Compare and convert metric units >>
	<i>See also:</i>
	N.16 Conversion tables - metric units >>

14 - 10: Units of Time

14 - 11: Work Backward**F.6** Multi-step word problems >>**O.7** Find start and end times: multi-step word problems >>

Topic 15

Solving Measurement Problems

Textbook section	IXL skills
15 - 1: Solving Perimeter and Area Problems	BB.1 Perimeter >> BB.10 Relationship between area and perimeter >> BB.14 Use area and perimeter to determine cost >>
15 - 2: Solving Measurement Problems	
15 - 3: Solving Problems Involving Money	M.6 Making change >>
15 - 4: Solving Problems Involving Line Plots	J.6 Interpret line plots >> J.7 Create line plots >>
15 - 5: Solve a Simpler Problem and Make a Table	

Topic 16

Lines, Angles and Shapes

Textbook section	IXL skills
16 - 1: Points, Lines and Planes	W.5 Parallel, perpendicular, and intersecting lines >>
16 - 2: Line Segments, Rays, and Angles	W.4 Lines, line segments, and rays >> Z.1 Acute, right, obtuse, and straight angles >>
16 - 3: Understanding Angles and Unit Angles	Z.2 Angles of 90, 180, 270, and 360 degrees >>
16 - 4: Measuring with Unit Angles	
16 - 5: Measuring Angles	Z.3 Measure angles with a protractor >> <i>See also:</i> Z.4 Estimate angle measurements >>
16 - 6: Adding and Subtracting Angle Measures	Z.5 Adjacent angles >>
16 - 7: Polygons	W.3 Number of sides in polygons >> X.4 Parallel sides in quadrilaterals >>
16 - 8: Triangles	X.1 Acute, obtuse, and right triangles >> X.2 Scalene, isosceles, and equilateral triangles >> X.3 Classify triangles >>
16 - 9: Quadrilaterals	X.9 Classify quadrilaterals >>
16 - 10: Line Symmetry	Y.1 Identify lines of symmetry >>
16 - 11: Make and Test Generalizations	