



# IXL Skill Alignment

2nd alignment for enVisionMATH 2.0 Common Core Edition

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# Topic 1

## Fluently Add and Subtract Within 20

Textbook section	IXL skills
<b>1-1:</b> Addition Fact Strategies	<b>E.1</b> Review - add one-digit numbers - sums to 10 >> <b>E.4</b> Addition with pictures - sums to 20 >> <b>E.7</b> Add one-digit numbers >> <b>E.15</b> Write the addition sentence - one digit >> <b>K.1</b> Related addition facts >>  <i>See also:</i> <b>E.5</b> Write addition sentences to describe pictures - sums to 20 >>
<b>1-2:</b> Doubles and Near Doubles	<b>E.10</b> Add doubles using models >> <b>E.11</b> Add doubles >>  <i>See also:</i> <b>E.12</b> Add doubles - complete the sentence >>
<b>1-3:</b> Make a 10 to Add	
<b>1-4:</b> Addition Fact Patterns	
<b>1-5:</b> Count On and Count Back to Subtract	<b>F.8</b> Subtract a one-digit number from a two-digit number up to 18 >>  <i>See also:</i> <b>F.11</b> Subtraction word problems - up to 18 >>
<b>1-6:</b> Think Addition to Subtract	
<b>1-7:</b> Make a 10 to Subtract	
<b>1-8:</b> Practice Addition and Subtraction Facts	<b>E.7</b> Add one-digit numbers >> <b>F.8</b> Subtract a one-digit number from a two-digit number up to 18 >> <b>L.1</b> Add and subtract numbers up to 20 >>

*See also:*

**E.14** Complete the addition sentence - one digit >>

**L.4** Addition and subtraction - balance equations - up to 20 >>

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**1-9:** Solve Addition and Subtraction Word Problems

**E.13** Addition word problems - one digit >>

**E.15** Write the addition sentence - one digit >>

**F.11** Subtraction word problems - up to 18 >>

**F.13** Write the subtraction sentence - up to 18 >>

**L.3** Addition and subtraction word problems - up to 20 >>

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**1-10:** Construct Arguments

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## Topic 2

### Work with Equal Groups

Textbook section	IXL skills	
<b>2-1:</b> Even and Odd Numbers	<b>A.9</b>	Even or odd >>
<b>2-2:</b> Continue Even and Odd Numbers		
<b>2-3:</b> Use Arrays to Find Totals	<b>E.22</b>	Identify repeated addition in arrays: sums to 10 >>
	<b>E.23</b>	Write addition sentences for arrays: sums to 10 >>
	<b>E.24</b>	Identify repeated addition in arrays: sums to 25 >>
	<b>E.25</b>	Write addition sentences for arrays: sums to 25 >>
<b>2-4:</b> Make Arrays to Find Totals		
<b>2-5:</b> Model with Math		

# Topic 3

## Add Within 100 Using Strategies

Textbook section	IXL skills
<b>3-1:</b> Add Tens and Ones on a Hundred Chart	
<b>3-2:</b> Add Tens on an Open Number Line	
<b>3-3:</b> Add Tens and Ones on an Open Number Line	<p><b>G.5</b> Add two two-digit numbers - without regrouping &gt;&gt;</p> <p><b>G.6</b> Add two two-digit numbers - with regrouping &gt;&gt;</p> <p><i>See also:</i></p> <p><b>G.9</b> Addition word problems - up to two digits &gt;&gt;</p>
<b>3-4:</b> Break Apart Numbers to Add	<p><b>G.3</b> Add a two-digit and a one-digit number - without regrouping &gt;&gt;</p> <p><b>G.4</b> Add a two-digit and a one-digit number - with regrouping &gt;&gt;</p> <p><b>G.5</b> Add two two-digit numbers - without regrouping &gt;&gt;</p> <p><b>G.6</b> Add two two-digit numbers - with regrouping &gt;&gt;</p> <p><i>See also:</i></p> <p><b>G.9</b> Addition word problems - up to two digits &gt;&gt;</p>
<b>3-5:</b> Continue to Break Apart Numbers to Add	<p><b>G.5</b> Add two two-digit numbers - without regrouping &gt;&gt;</p> <p><b>G.6</b> Add two two-digit numbers - with regrouping &gt;&gt;</p> <p><i>See also:</i></p> <p><b>G.9</b> Addition word problems - up to two digits &gt;&gt;</p> <p><b>G.10</b> Complete the addition sentence - up to two digits &gt;&gt;</p>

**3-6: Add Using Compensation**

- G.3** Add a two-digit and a one-digit number - without regrouping >>
- G.4** Add a two-digit and a one-digit number - with regrouping >>
- G.5** Add two two-digit numbers - without regrouping >>
- G.6** Add two two-digit numbers - with regrouping >>

**3-7: Practice Adding Using Strategies**

- G.3** Add a two-digit and a one-digit number - without regrouping >>
- G.4** Add a two-digit and a one-digit number - with regrouping >>
- G.5** Add two two-digit numbers - without regrouping >>
- G.6** Add two two-digit numbers - with regrouping >>

*See also:*

- G.9** Addition word problems - up to two digits >>
- G.11** Write the addition sentence - up to two digits >>

**3-8: Solve One-Step and Two-Step Problems**

- E.13** Addition word problems - one digit >>
- E.15** Write the addition sentence - one digit >>
- E.19** Add three one-digit numbers: word problems >>
- G.9** Addition word problems - up to two digits >>
- G.11** Write the addition sentence - up to two digits >>
- G.14** Add three numbers up to two digits each: word problems >>

*See also:*

- G.10** Complete the addition sentence - up to two digits >>

**3-9: Use Appropriate Tools**

# Topic 4

## Fluently Add Within 100

Textbook section	IXL skills
<b>4-1:</b> Add with Partial Sums	<p><b>G.3</b> Add a two-digit and a one-digit number - without regrouping &gt;&gt;</p> <p><b>G.4</b> Add a two-digit and a one-digit number - with regrouping &gt;&gt;</p> <p><b>G.5</b> Add two two-digit numbers - without regrouping &gt;&gt;</p> <p><b>G.6</b> Add two two-digit numbers - with regrouping &gt;&gt;</p> <p><i>See also:</i></p> <p><b>G.9</b> Addition word problems - up to two digits &gt;&gt;</p> <p><b>G.11</b> Write the addition sentence - up to two digits &gt;&gt;</p>
<b>4-2:</b> Continue to Add with Partial Sums	<p><b>G.5</b> Add two two-digit numbers - without regrouping &gt;&gt;</p> <p><b>G.6</b> Add two two-digit numbers - with regrouping &gt;&gt;</p> <p><i>See also:</i></p> <p><b>G.9</b> Addition word problems - up to two digits &gt;&gt;</p> <p><b>G.11</b> Write the addition sentence - up to two digits &gt;&gt;</p>
<b>4-3:</b> Models to Add 2-Digit Numbers	<p><b>G.5</b> Add two two-digit numbers - without regrouping &gt;&gt;</p> <p><b>G.6</b> Add two two-digit numbers - with regrouping &gt;&gt;</p> <p><i>See also:</i></p> <p><b>G.9</b> Addition word problems - up to two digits &gt;&gt;</p> <p><b>G.11</b> Write the addition sentence - up to two digits &gt;&gt;</p>

**4-4: Add 2-Digit Numbers**

**G.5** Add two two-digit numbers - without regrouping >>

**G.6** Add two two-digit numbers - with regrouping >>

*See also:*

**G.9** Addition word problems - up to two digits >>

**G.11** Write the addition sentence - up to two digits >>

**4-5: Add More than Two 2-Digit Numbers**

**G.13** Add three numbers up to two digits each >>

**G.15** Add four or more numbers up to two digits each >>

*See also:*

**G.14** Add three numbers up to two digits each: word problems >>

**G.16** Add four or more numbers up to two digits each: word problems >>

**4-6: Practice Adding**

**G.3** Add a two-digit and a one-digit number - without regrouping >>

**G.4** Add a two-digit and a one-digit number - with regrouping >>

**G.5** Add two two-digit numbers - without regrouping >>

**G.6** Add two two-digit numbers - with regrouping >>

**G.13** Add three numbers up to two digits each >>

**G.15** Add four or more numbers up to two digits each >>

*See also:*

**E.19** Add three one-digit numbers: word problems >>

**G.9** Addition word problems - up to two digits >>

**G.14** Add three numbers up to two digits each: word problems >>

**G.16** Add four or more numbers up to two digits each: word problems >>



**4-7:** Solve One-Step and Two-Step Problems**G.9** Addition word problems - up to two digits >>**G.14** Add three numbers up to two digits each: word problems >>**4-8:** Model with Math**G.9** Addition word problems - up to two digits >>**G.11** Write the addition sentence - up to two digits >>

# Topic 5

## Subtract Within 100 Using Strategies

Textbook section	IXL skills
<b>5-1:</b> Subtract Tens and Ones on a Hundred Chart	
<b>5-2:</b> Count Back to Subtract on an Open Number Line	
<b>5-3:</b> Continue to Count Back to Subtract on an Open Number Line	<b>H.5</b> Subtract two two-digit numbers - without regrouping >> <b>H.6</b> Subtract two two-digit numbers - with regrouping >> <i>See also:</i> <b>H.9</b> Subtraction word problems - up to two digits >>
<b>5-4:</b> Add Up to Subtract Using an Open Number Line	<b>H.5</b> Subtract two two-digit numbers - without regrouping >> <b>H.6</b> Subtract two two-digit numbers - with regrouping >> <i>See also:</i> <b>H.9</b> Subtraction word problems - up to two digits >>
<b>5-5:</b> Break Apart Numbers to Subtract	<b>H.4</b> Subtract a one-digit number from a two-digit number - with regrouping >> <i>See also:</i> <b>H.9</b> Subtraction word problems - up to two digits >>
<b>5-6:</b> Continue to Break Apart Numbers to Subtract	<b>H.6</b> Subtract two two-digit numbers - with regrouping >> <i>See also:</i> <b>H.9</b> Subtraction word problems - up to two digits >>

**5-7: Subtract Using Compensation**

- H.4** Subtract a one-digit number from a two-digit number - with regrouping >>
- H.5** Subtract two two-digit numbers - without regrouping >>
- H.6** Subtract two two-digit numbers - with regrouping >>

*See also:*

- H.9** Subtraction word problems - up to two digits >>

**5-8: Solve One-Step and Two-Step Problems**

- G.9** Addition word problems - up to two digits >>
- H.9** Subtraction word problems - up to two digits >>

**5-9: Critique Reasoning**

# Topic 6

## Fluently Subtract Within 100

Textbook section	IXL skills	
<b>6-1:</b> Regroup 1 Ten for 10 Ones		
<b>6-2:</b> Models to Subtract 2-Digit and 1-Digit Numbers	<b>H.3</b>	Subtract a one-digit number from a two-digit number - without regrouping >>
	<b>H.4</b>	Subtract a one-digit number from a two-digit number - with regrouping >>
<b>6-3:</b> Subtract 2-Digit and 1-Digit Numbers	<b>H.3</b>	Subtract a one-digit number from a two-digit number - without regrouping >>
	<b>H.4</b>	Subtract a one-digit number from a two-digit number - with regrouping >>
<b>6-4:</b> Models to Subtract 2-Digit Numbers	<b>H.5</b>	Subtract two two-digit numbers - without regrouping >>
	<b>H.6</b>	Subtract two two-digit numbers - with regrouping >>
<b>6-5:</b> Subtract 2-Digit Numbers	<b>H.5</b>	Subtract two two-digit numbers - without regrouping >>
	<b>H.6</b>	Subtract two two-digit numbers - with regrouping >>
<b>6-6:</b> Use Addition to Check Subtraction		
<b>6-7:</b> Practice Subtracting	<b>H.5</b>	Subtract two two-digit numbers - without regrouping >>
	<b>H.6</b>	Subtract two two-digit numbers - with regrouping >>
<b>6-8:</b> Solve One-Step and Two-Step Problems	<b>G.9</b>	Addition word problems - up to two digits >>
	<b>H.9</b>	Subtraction word problems - up to two digits >>
	<b>L.10</b>	Addition and subtraction word problems - up to 100 >>
<b>6-9:</b> Reasoning	<b>L.10</b>	Addition and subtraction word problems - up to 100 >>

*See also:*

**G.11** Write the addition sentence - up to two digits >>

**H.11** Write the subtraction sentence - up to two digits >>

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## Topic 7

### More Solving Problems Involving Addition and Subtraction

Textbook section	IXL skills	
7-1: Represent Addition and Subtraction Problems		
7-2: Mixed Practice: Solve Addition and Subtraction Problems	G.9	Addition word problems - up to two digits >>
	H.9	Subtraction word problems - up to two digits >>
	L.10	Addition and subtraction word problems - up to 100 >>
7-3: Continue Practice with Addition and Subtraction Problems	G.9	Addition word problems - up to two digits >>
	H.9	Subtraction word problems - up to two digits >>
	L.10	Addition and subtraction word problems - up to 100 >>
7-4: Solve Two-Step Problems		
7-5: Continue to Solve Two-Step Problems		
7-6: Reasoning		

# Topic 8

## Work with Time and Money

Textbook section	IXL skills
<b>8-1:</b> Solve Problems with Coins	<p><b>P.1</b> Names and values of common coins &gt;&gt;</p> <p><b>P.3</b> Count money - pennies, nickels, and dimes only &gt;&gt;</p> <p><b>P.4</b> Count money - up to \$1 &gt;&gt;</p> <p><i>See also:</i></p> <p><b>P.6</b> Equivalent amounts of money - up to \$1 &gt;&gt;</p> <p><b>P.18</b> Least number of coins &gt;&gt;</p>
<b>8-2:</b> Continue to Solve Problems with Coins	<p><b>P.1</b> Names and values of common coins &gt;&gt;</p> <p><b>P.3</b> Count money - pennies, nickels, and dimes only &gt;&gt;</p> <p><b>P.4</b> Count money - up to \$1 &gt;&gt;</p> <p><i>See also:</i></p> <p><b>P.18</b> Least number of coins &gt;&gt;</p>
<b>8-3:</b> Solve Problems with Dollar Bills	
<b>8-4:</b> Continue to Solve Problems with Dollar Bills	
<b>8-5:</b> Reasoning	<p><b>P.6</b> Equivalent amounts of money - up to \$1 &gt;&gt;</p> <p><b>P.18</b> Least number of coins &gt;&gt;</p>
<b>8-6:</b> Tell Time to Five Minutes	<p><b>Q.3</b> Match analog and digital clocks &gt;&gt;</p> <p><b>Q.4</b> Read clocks and write times: hour and half hour &gt;&gt;</p> <p><b>Q.5</b> Read clocks and write times &gt;&gt;</p>
<b>8-7:</b> Tell Time Before and After the Hour	<b>Q.6</b> Time words: o'clock, half, quarter >>
<b>8-8:</b> A.M. and P.M.	<b>Q.7</b> A.M. or P.M. >>

# Topic 9

## Numbers to 1,000

Textbook section	IXL skills
<b>9-1:</b> Understand Hundreds	
<b>9-2:</b> Models and 3-Digit Numbers	<b>M.2</b> Place value models - up to hundreds >>  <i>See also:</i> <b>M.1</b> Place value models - tens and ones >>
<b>9-3:</b> Name Place Values	<b>M.6</b> Place value - up to hundreds >> <b>M.11</b> Convert to/from a number - up to hundreds >>  <i>See also:</i> <b>M.4</b> Identify a digit up to the hundreds place >>
<b>9-4:</b> Read and Write 3-Digit Numbers	<b>C.4</b> Writing numbers up to 1,000 in words - convert words to digits >> <b>C.5</b> Writing numbers up to 1,000 in words - convert digits to words >>  <i>See also:</i> <b>M.14</b> Convert from expanded form - up to hundreds >>
<b>9-5:</b> Different Ways to Name the Same Number	
<b>9-6:</b> Place-Value Patterns with Numbers	
<b>9-7:</b> Skip Count by 5s, 10s, and 100s to 1,000	
<b>9-8:</b> Compare Numbers Using Place Value	<b>B.2</b> Comparing numbers up to 1,000 >>
<b>9-9:</b> Compare Numbers on the Number Line	
<b>9-10:</b> Look for and Use Structure	



# Topic 10

## Add Within 1,000 Using Models and Strategies

Textbook section	IXL skills
<b>10-1:</b> Add 10 and 100	
<b>10-2:</b> Add on an Open Number Line	<b>I.3</b> Addition with three-digit numbers >>  <i>See also:</i> <b>I.5</b> Addition word problems - up to three digits >>
<b>10-3:</b> Add Using Mental Math	<b>I.3</b> Addition with three-digit numbers >>  <i>See also:</i> <b>I.5</b> Addition word problems - up to three digits >>  <b>I.7</b> Write the addition sentence - up to three digits >>
<b>10-4:</b> Add Using Partial Sums	<b>I.3</b> Addition with three-digit numbers >>
<b>10-5:</b> Use Models to Add	<b>I.3</b> Addition with three-digit numbers >>
<b>10-6:</b> Explain Addition Strategies	
<b>10-7:</b> Repeated Reasoning	

# Topic 11

## Subtract Within 1,000 Using Models and Strategies

Textbook section	IXL skills
<b>11-1:</b> Subtract 10 and 100	
<b>11-2:</b> Count Back to Subtract on an Open Number Line	<b>J.3</b> Subtract three-digit numbers >> <i>See also:</i> <b>J.5</b> Subtraction word problems - up to three digits >>
<b>11-3:</b> Add Up to Subtract on an Open Number Line	<b>J.3</b> Subtract three-digit numbers >> <i>See also:</i> <b>J.5</b> Subtraction word problems - up to three digits >>
<b>11-4:</b> Subtract Using Mental Math	<b>J.3</b> Subtract three-digit numbers >> <i>See also:</i> <b>J.5</b> Subtraction word problems - up to three digits >> <b>J.7</b> Write the subtraction sentence - up to three digits >>
<b>11-5:</b> Use Models to Subtract	<b>J.3</b> Subtract three-digit numbers >> <i>See also:</i> <b>J.5</b> Subtraction word problems - up to three digits >>
<b>11-6:</b> Explain Subtraction Strategies	
<b>11-7:</b> Make Sense and Persevere	

# Topic 12

## Measuring Length

Textbook section	IXL skills
<b>12-1:</b> Estimating Length	<b>S.3</b> Which customary unit of length is appropriate? >>
<b>12-2:</b> Measure with Inches	<b>S.2</b> Measure using an inch ruler >>
<b>12-3:</b> Inches, Feet, and Yards	<b>S.3</b> Which customary unit of length is appropriate? >>
<b>12-4:</b> Measure Length Using Different Customary Units	
<b>12-5:</b> Measure with Centimeters	<b>S.8</b> Measure using a centimeter ruler >>
<b>12-6:</b> Centimeters and Meters	<b>S.8</b> Measure using a centimeter ruler >> <b>S.9</b> Which metric unit of length is appropriate? >>
<b>12-7:</b> Measure Length Using Different Metric Units	
<b>12-8:</b> Compare Lengths	
<b>12-9:</b> Precision	

# Topic 13

## More Addition, Subtraction, and Length

Textbook section	IXL skills
13-1: Add and Subtract with Measurements	
13-2: Find Unknown Measurements	
13-3: Continue to Find Unknown Measurements	
13-4: Add and Subtract on a Number Line	
13-5: Use Appropriate Tools	

# Topic 14

## Graphs and Data

Textbook section	IXL skills	
<b>14-1:</b> Line Plots		
<b>14-2:</b> More Line Plots		
<b>14-3:</b> Bar Graphs	<b>R.3</b>	Interpret bar graphs II >>
	<b>R.4</b>	Which bar graph is correct? >>
	<b>R.5</b>	Create bar graphs >>
<b>14-4:</b> Picture Graphs		
<b>14-5:</b> Draw Conclusions from Graphs	<b>R.3</b>	Interpret bar graphs II >>
<b>14-6:</b> Reasoning		

# Topic 15

## Shapes and Their Attributes

Textbook section	IXL skills
<b>15-1:</b> 2 Dimensional Shapes	<b>T.1</b> Name the two-dimensional shape >> <b>T.2</b> Select two-dimensional shapes >> <b>T.3</b> Count sides and vertices >>
<b>15-2:</b> Polygons and Angles	
<b>15-3:</b> Draw 2-Dimensional Shapes	
<b>15-4:</b> Cubes	
<b>15-5:</b> Divide Rectangles into Equal Squares	
<b>15-6:</b> Partition Shapes	<b>W.1</b> Equal parts >>
<b>15-7:</b> Equal Shares, Different Shapes	
<b>15-8:</b> Repeated Reasoning	

# Step Up to Grade 3

Textbook section	IXL skills	
<b>Lesson 1:</b> Multiplication as Repeated Addition	<b>E.4</b>	Relate addition and multiplication for equal groups >>
<b>Lesson 2:</b> Arrays and Multiplication	<b>E.5</b>	Identify multiplication expressions for arrays >>
	<b>E.6</b>	Write multiplication sentences for arrays >>
	<b>E.7</b>	Make arrays to model multiplication >>
<b>Lesson 3:</b> Division as Sharing	<b>I.1</b>	Divide by counting equal groups >>
<b>Lesson 4:</b> Division as Repeated Subtraction		
<b>Lesson 5:</b> Add with Partial Sums		
<b>Lesson 6:</b> Models for Adding 3-Digit Numbers		
<b>Lesson 7:</b> Subtract with Partial Differences		
<b>Lesson 8:</b> Models for Subtracting 3-Digit Numbers		
<b>Lesson 9:</b> Divide Regions into Equal Parts	<b>W.1</b>	Identify equal parts >>
<b>Lesson 10:</b> Fractions and Regions	<b>W.7</b>	Match unit fractions to models >>
	<b>W.8</b>	Match fractions to models >>