



# IXL Skill Alignment

1st grade alignment for Investigations 3



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# Unit 1

## Building Numbers and Solving Story Problems

### Investigation 1: Counting and Quantity

Textbook section	IXL skills
<b>Session 1.1</b>	1. Number lines - up to 100 MVE
<b>Session 1.2</b>	1. Counting review - up to 10 A6X
<b>Session 1.3</b>	1. Counting review - up to 20 QRF
<b>Session 1.4</b>	1. Count to fill a ten frame 6CB
<b>Session 1.5</b>	

### Investigation 2: Introducing Addition

Textbook section	IXL skills
<b>Session 2.1</b>	1. Count on ten frames - up to 40 WTZ
<b>Session 2.2</b>	1. Comparing - review PRR
<b>Session 2.3</b>	
<b>Session 2.4</b>	1. Addition word problems - sums up to 10 P6D 2. Addition sentences up to 10: what does the model show? F9B 3. Add with cubes - sums up to 10 E8D 4. Addition sentences for word problems - sums up to 10 ZE8 5. Add with pictures - sums up to 10 H6S 6. Addition sentences up to 10: which model matches? E5U 7. Addition facts - sums up to 10 WUL
<b>Session 2.5</b>	1. Addition word problems with pictures - sums up to 10 F6L 2. Addition word problems - sums up to 20 KY5

**Session 2.6**

1. Addition sentences for word problems - sums up to 20 N5N

**Session 2.7**

1. Addition facts - sums up to 10 WUL

**Session 2.8**

1. Addition facts - sums up to 20 6TM

**Investigation 3: Introducing Subtraction**

Textbook section	IXL skills
<b>Session 3.1</b>	<ol style="list-style-type: none"> <li>1. Addition word problems - sums up to 20 KY5</li> </ol>
<b>Session 3.2</b>	<ol style="list-style-type: none"> <li>1. Subtraction sentences up to 10: what does the model show? 2AY</li> </ol>
<b>Session 3.3</b>	<ol style="list-style-type: none"> <li>1. Subtraction sentences up to 10: which model matches? MGG</li> <li>2. Subtract with cubes - up to 10 5JT</li> <li>3. Subtract with pictures - up to 10 Y2Z</li> </ol>
<b>Session 3.4</b>	<ol style="list-style-type: none"> <li>1. Subtraction word problems with pictures - up to 10 GA9</li> <li>2. Subtraction word problems - up to 10 7NL</li> <li>3. Subtraction sentences for word problems - up to 10 R2J</li> <li>4. Subtraction sentences for word problems - up to 20 LJA</li> <li>5. Subtraction word problems - up to 20 9Q9</li> </ol>
<b>Session 3.5</b>	<ol style="list-style-type: none"> <li>1. Subtraction facts - up to 10 EQK</li> </ol>
<b>Session 3.6</b>	<ol style="list-style-type: none"> <li>1. Addition word problems - sums up to 20 KY5</li> </ol>
<b>Session 3.7</b>	<ol style="list-style-type: none"> <li>1. Subtraction facts - up to 20 PV5</li> </ol>

## Unit 2

### Comparing and Combining Shapes

#### Investigation 1: Composing and Decomposing 2-D Shapes

Textbook section	IXL skills
Session 1.1	1. Subtraction word problems - up to 20 9Q9
Session 1.2	
Session 1.3	1. Add with pictures - sums up to 10 H6S
Session 1.4	1. Addition word problems - sums up to 20 KY5
Session 1.5	
Session 1.6	
Session 1.7	1. Subtract with pictures - up to 10 Y2Z

#### Investigation 2: Describing and Sorting Shapes

Textbook section	IXL skills
Session 2.1	1. Count sides and corners VUQ
Session 2.2	
Session 2.3	
Session 2.4	1. Name the two-dimensional shape MRF 2. Select two-dimensional shapes HV6 3. Compare sides and corners EML
Session 2.5	

## Unit 3

### How Many of Each? How Many in All?

#### Investigation 1: Counting On and Back

Textbook section	IXL skills
Session 1.1	1. Add with cubes - sums up to 10 E8D
Session 1.2	1. Addition sentences up to 10: what does the model show? F9B
Session 1.3	1. Subtract with cubes - up to 10 5JT 2. Subtraction sentences up to 10: what does the model show? 2AY
Session 1.4	

#### Investigation 2: How Many of Each?

Textbook section	IXL skills
Session 2.1	1. Addition facts - sums up to 10 WUL 2. Complete the addition sentence - sums up to 10 N2N
Session 2.2	1. Addition facts - sums up to 20 6TM
Session 2.3	1. Complete the addition sentence - sums up to 20 5BP
Session 2.4	1. Make a number using addition - sums up to 10 VSE
Session 2.5	
Session 2.6	1. Ways to make a number - addition sentences up to 10 K48
Session 2.7	
Session 2.8	1. Make a number using addition - sums up to 20 UMX

## Investigation 3: Multiple Addends and Equivalent Expressions

Textbook section	IXL skills
<b>Session 3.1</b>	<ol style="list-style-type: none"> <li>1. Add three numbers - make ten 8B2</li> <li>2. Add three numbers - word problems Z7S</li> </ol>
<b>Session 3.2</b>	<ol style="list-style-type: none"> <li>1. Add three numbers RL2</li> </ol>
<b>Session 3.3</b>	<ol style="list-style-type: none"> <li>1. Ways to make a number - addition sentences up to 10 K48</li> <li>2. Ways to make a number - subtraction sentences up to 10 BTD</li> </ol>
<b>Session 3.4</b>	<ol style="list-style-type: none"> <li>1. Add three numbers - use doubles 2K8</li> </ol>
<b>Session 3.5</b>	<ol style="list-style-type: none"> <li>1. Addition sentences: true or false? AMQ</li> <li>2. Subtraction sentences: true or false? XRG</li> <li>3. Addition and subtraction sentences: which is true? QVL</li> </ol>
<b>Session 3.6</b>	<ol style="list-style-type: none"> <li>1. Addition sentences: which is true? XWH</li> <li>2. Subtraction sentences: which is true? A2N</li> </ol>

## Investigation 4: Working with Larger Numbers

Textbook section	IXL skills
<b>Session 4.1</b>	<ol style="list-style-type: none"> <li>1. Ways to make a number - addition sentences up to 10 K48</li> <li>2. Ways to make a number - subtraction sentences up to 10 BTD</li> </ol>
<b>Session 4.2</b>	<ol style="list-style-type: none"> <li>1. Addition and subtraction - ways to make a number Q8E</li> </ol>
<b>Session 4.3</b>	<ol style="list-style-type: none"> <li>1. Counting - up to 100 SUW</li> </ol>
<b>Session 4.4</b>	<ol style="list-style-type: none"> <li>1. Counting forward - up to 100 A6F</li> </ol>
<b>Session 4.5</b>	<ol style="list-style-type: none"> <li>1. Counting forward - up to 120 VZR</li> </ol>
<b>Session 4.6</b>	<ol style="list-style-type: none"> <li>1. Counting on the hundred chart XUD</li> </ol>



**Session 4.7**

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**Session 4.8**

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# Unit 4

## Fish Lengths and Fraction Rugs

### Investigation 1: Measuring and Comparing

Textbook section	IXL skills
<b>Session 1.1</b>	1. Addition and subtraction sentences: which is true? QVL
<b>Session 1.2</b>	1. Compare objects: length and height D7U
<b>Session 1.3</b>	1. Measure length with objects GWG 2. Measure length with cubes FBV
<b>Session 1.4</b>	1. Measure length with objects GWG
<b>Session 1.5</b>	1. Measure using an inch ruler ELW
<b>Session 1.6</b>	1. Customary units of length: word problems 2EE
<b>Session 1.7</b>	
<b>Session 1.8</b>	

### Investigation 2: Halves and Fourths

Textbook section	IXL skills
<b>Session 2.1</b>	1. Identify halves UFC
<b>Session 2.2</b>	1. Make halves GF9
<b>Session 2.3</b>	
<b>Session 2.4</b>	1. Equal parts - halves and fourths HVX
<b>Session 2.5</b>	1. Identify fourths TP9 2. Make fourths ALQ





**Session 2.6**

1. Identify halves and fourths WV L
  2. Make halves and fourths X5A
  3. Make halves and fourths in different ways YJR
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# Unit 5

## Number Games and Crayon Problems

### Investigation 1: Combinations of 10

Textbook section	IXL skills
Session 1.1	1. Addition and subtraction - ways to make a number Q8E
Session 1.2	1. Match analog and digital clocks 7N3
Session 1.3	1. Complete the addition sentence - make ten 5MN 2. Add three numbers - make ten 8B2
Session 1.4	1. Complete the addition sentence - make ten 5MN
Session 1.5	1. Addition and subtraction facts - up to 10 V7A
Session 1.6	
Session 1.7	
Session 1.8	

### Investigation 2: Addition and Subtraction

Textbook section	IXL skills
Session 2.1	1. Add three numbers - word problems Z7S
Session 2.2	1. Addition facts - sums up to 20 6TM
Session 2.3	1. Identify halves UFC
Session 2.4	1. Subtraction facts - up to 20 PV5 2. Subtract with pictures - up to 10 Y2Z
Session 2.5	1. Match analog and digital clocks 7N3
Session 2.6	1. Addition and subtraction word problems - up to 20 VJR

**Session 2.7**

1. Ways to make a number - addition sentences up to 10 K48
2. Ways to make a number - subtraction sentences up to 10 BTD

**Session 2.8****Investigation 3: Problems about Unknown Change**

Textbook section	IXL skills
<b>Session 3.1</b>	1. Addition and subtraction sentences: which is true? QVL
<b>Session 3.2</b>	
<b>Session 3.3</b>	1. Complete the subtraction sentence - up to 10 J6J
<b>Session 3.4</b>	<ol style="list-style-type: none"> <li>1. Subtraction sentences: which is true? A2N</li> <li>2. Addition sentences: which is true? XWH</li> </ol>
<b>Session 3.5</b>	1. Complete the addition sentence - sums up to 10 N2N
<b>Session 3.6</b>	1. Subtraction word problems - up to 10 7NL
<b>Session 3.7</b>	1. Addition and subtraction word problems - up to 20 VJR

## Unit 6

### Would You Rather be an Eagle or a Whale?

#### Investigation 1: Collecting, Representing, and Solving Problems About Data in Two Categories

Textbook section	IXL skills
<b>Session 1.1</b>	
<b>Session 1.2</b>	1. Which picture graph is correct? WZF
<b>Session 1.3</b>	1. Interpret picture graphs GFA
<b>Session 1.4</b>	
<b>Session 1.5</b>	1. Which tally chart is correct? XRL 2. Interpret tally charts LBV
<b>Session 1.6</b>	1. Match analog and digital clocks 7N3
<b>Session 1.7</b>	1. Which table is correct? CSH 2. Interpret data in tables KGS
<b>Session 1.8</b>	1. Add three numbers - word problems Z7S
<b>Session 1.9</b>	1. Comparison word problems C7Q

#### Investigation 2: Organizing and Analyzing Data in 3 Categories

Textbook section	IXL skills
<b>Session 2.1</b>	1. Interpret picture graphs GFA 2. Which picture graph is correct? WZF
<b>Session 2.2</b>	1. Interpret data in tables KGS 2. Which table is correct? CSH
<b>Session 2.3</b>	

# Unit 7

## How Many Tens? How Many Ones?

### Investigation 1: Counting, Adding, and Subtracting Groups of 10

Textbook section	IXL skills
Session 1.1	1. Skip-counting by twos L67
Session 1.2	
Session 1.3	1. Skip-counting by tens N89
Session 1.4	1. Count on ten frames - up to 40 WTZ 2. Add a multiple of ten and a two-digit number LNL
Session 1.5	
Session 1.6	1. Subtract multiples of 10 9DD 2. Subtract a multiple of 10 PYR
Session 1.7	1. Add two multiples of ten EMK 2. Subtract multiples of 10 9DD
Session 1.8	

### Investigation 2: Tens and Ones

Textbook section	IXL skills
Session 2.1	1. Subtract multiples of 10 9DD
Session 2.2	1. Counting - up to 100 SUW 2. Place value models up to 20 YPB 3. Place value models up to 100 5CG
Session 2.3	1. Match analog and digital clocks 7N3

**Session 2.4**

1. Comparing - review PRR
2. Compare numbers up to 10 using symbols GNP
3. Compare numbers up to 100 using symbols FU5

**Session 2.5**

1. Ten more or less CLA

**Session 2.6**

1. Compare numbers up to 10 using words 2PE
2. Compare numbers up to 100 using words BWC

**Session 2.7****Session 2.8****Investigation 3: Adding Within 100****Textbook section****IXL skills****Session 3.1**

1. Add two multiples of ten EMK
2. Add a multiple of ten and a two-digit number LNL

**Session 3.2**

1. Add a one-digit number to a two-digit number - without regrouping 5VX

**Session 3.3****Session 3.4**

1. Addition word problems - sums up to 20 KY5

**Session 3.5****Session 3.6****Session 3.7**

1. Match analog and digital clocks 7N3

**Session 3.8**

# Unit 8

## Blocks and Building

### Investigation 1: Blocks and Buildings

Textbook section	IXL skills
<b>Session 1.1</b>	<ol style="list-style-type: none"> <li>1. Shapes of everyday objects I ZCN</li> <li>2. Shapes of everyday objects II LFC</li> </ol>
<b>Session 1.2</b>	<ol style="list-style-type: none"> <li>1. Match analog and digital clocks 7N3</li> <li>2. Match digital clocks and times KKM</li> <li>3. Match analog clocks and times 5FJ</li> <li>4. Read clocks and write times UJM</li> </ol>
<b>Session 1.3</b>	
<b>Session 1.4</b>	<ol style="list-style-type: none"> <li>1. Match analog and digital clocks 7N3</li> </ol>
<b>Session 1.5</b>	
<b>Session 1.6</b>	<ol style="list-style-type: none"> <li>1. Add two multiples of ten EMK</li> <li>2. Add a multiple of ten and a two-digit number LNL</li> </ol>
<b>Session 1.7</b>	<ol style="list-style-type: none"> <li>1. Identify shapes traced from solids NXF</li> <li>2. Identify faces of three-dimensional shapes RPX</li> </ol>
<b>Session 1.8</b>	<ol style="list-style-type: none"> <li>1. Equal parts - halves and fourths HVX</li> <li>2. Identify halves and fourths WVL</li> </ol>
<b>Session 1.9</b>	