



# IXL Skill Alignment

1st grade alignment for Math Expressions 2013 Common Core



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# Unit 1

## Partners and Number Patterns Through 10

### Big Idea 1: Numbers Through 10

Textbook section	IXL skills
<b>1-1:</b> Discuss Numbers 1-10	1. Counting review - up to 10 A6X
<b>1-2:</b> Visualize Numbers as a 5-group and Ones	1. Show numbers on ten frames - up to 10 8ET

### Big Idea 2: Patterns with Partners through 10

Textbook section	IXL skills
<b>1-3:</b> Partners of 2 through 5	1. Make a number using addition - sums up to 5 8YR 2. Complete the addition sentence - make 5 WBV  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Adding 0 UFN</li> <li>• Adding 1 HRU</li> <li>• Subtracting 1 HAQ</li> </ul>
<b>1-4:</b> Partners of 6	1. Complete the addition sentence - make 6 BW8  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Add doubles DFT</li> <li>• Subtract zero and all PEQ</li> </ul>
<b>1-5:</b> Partners of 7	1. Complete the addition sentence - make 7 SMG  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Adding 2 5ZD</li> <li>• Subtracting 2 FP5</li> </ul>
<b>1-6:</b> Partners of 8	1. Complete the addition sentence - make 8 FNB  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Subtract doubles LHZ</li> </ul>



**1-7:** Partners of 9

1. Complete the addition sentence - make 9 FNN

**1-8:** Partners of 10

1. Complete the addition sentence - make ten 5MN

**1-9:** Focus on Mathematical Practices

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

## Unit 2

### Addition and Subtraction Strategies

#### Big Idea 1: Represent Addition Situations

Textbook section	IXL skills
<b>2-1:</b> Represent Addition	1. Add with pictures - sums up to 10 H6S
<b>2-2:</b> Addition with Circle Drawings	1. Add with cubes - sums up to 10 E8D
<b>2-3:</b> Addition Equations	1. Addition sentences up to 10: which model matches? E5U 2. Addition sentences up to 10: what does the model show? F9B  <i>Also consider</i> <ul style="list-style-type: none"> <li>Addition sentences using number lines - sums up to 10 UWW</li> </ul>
<b>2-4:</b> Addition Equations and Stories	1. Addition word problems with pictures - sums up to 10 F6L  <i>Also consider</i> <ul style="list-style-type: none"> <li>Turn words into an addition sentence - sums up to 10 5YU</li> </ul>

#### Big Idea 2: Solve Addition Equations

Textbook section	IXL skills
<b>2-5:</b> Explore Solution Methods	1. Addition sentences for word problems - sums up to 10 ZE8
<b>2-6:</b> Addition Strategies: Counting On	1. Addition facts without zero - sums up to 10 RUF
<b>2-7:</b> Count On from the Greater Number	1. Addition facts - sums up to 10 WUL
<b>2-8:</b> Addition Game: Unknown Totals	1. Addition word problems - sums up to 10 P6D
<b>2-9:</b> Practice Counting On	1. Make a number using addition - sums up to 10 VSE

## Big Idea 3: Solve Subtraction Equations

Textbook section	IXL skills
<b>2-10:</b> Represent Subtraction	1. Subtract with pictures - up to 10 Y2Z  <i>Also consider</i> <ul style="list-style-type: none"> <li>Subtraction sentences up to 10: which model matches? MGG</li> </ul>
<b>2-11:</b> Subtraction with Drawings and Equations	1. Subtraction sentences up to 10: what does the model show? 2AY  <i>Also consider</i> <ul style="list-style-type: none"> <li>Subtraction sentences using number lines - up to 10 LRN</li> <li>Turn words into a subtraction sentence - up to 10 ZJA</li> </ul>
<b>2-12:</b> Practice with Subtraction	1. Subtract with cubes - up to 10 5JT
<b>2-13:</b> Generate Subtraction Problems	1. Subtraction word problems with pictures - up to 10 GA9 2. Subtraction facts - up to 10 EQK

## Big Idea 4: Equation Exploration

Textbook section	IXL skills
<b>2-14:</b> Relate Addition and Subtraction	1. Relate addition and subtraction sentences - up to 10 TBD 2. Addition and subtraction facts - up to 10 V7A
<b>2-15:</b> Mixed Practice with Equations	1. Addition and subtraction sentences for word problems - up to 10 M6F
<b>2-16:</b> Focus on Mathematical Practices	1. Addition and subtraction word problems with pictures - up to 10 CJ9

# Unit 3

## Unknown Numbers in Addition and Subtraction

### Big Idea 1: Counting On with Addition Situations

Textbook section	IXL skills
<b>3-1:</b> Explore Unknowns	<ul style="list-style-type: none"> <li><i>Coming soon:</i> Ways to make a number up to 10</li> </ul>
<b>3-2:</b> Problems with Unknown Partners	
<b>3-3:</b> Solve Equations with Unknown Partners	1. Complete the addition sentence - sums up to 10 N2N
<b>3-4:</b> Addition Game: Unknown Partners	
<b>3-5:</b> Practice with Unknown Partners	1. Complete the addition sentence - sums up to 10 VYU

### Big Idea 2: Counting On with Subtraction Situations

Textbook section	IXL skills
<b>3-6:</b> Subtraction Strategies	1. Subtraction word problems - up to 10 7NL 2. Relate addition and subtraction sentences DM2
<b>3-7:</b> Subtraction Stories and Games	1. Subtraction sentences for word problems - up to 10 R2J  <i>Also consider</i> <ul style="list-style-type: none"> <li>Subtraction sentences: true or false? XRG</li> </ul>
<b>3-8:</b> Practice with Subtraction Stories	1. Which sign makes the number sentence true? - up to 10 BAV  <i>Also consider</i> <ul style="list-style-type: none"> <li>Subtraction sentences: which is true? A2N</li> </ul>

## Big Idea 3: Mixed Story Problems

Textbook section	IXL skills
<b>3-9:</b> Relate Addition and Subtraction Situations	1. Addition and subtraction - ways to make a number up to 10 FAE
<b>3-10:</b> Solve Mixed Problems	1. Addition and subtraction facts - up to 10 V7A
<b>3-11:</b> Practice with Mixed Problems	1. Addition and subtraction word problems - up to 10 DWE
<b>3-12:</b> Focus on Mathematical Practices	1. Addition and subtraction sentences: which is true? QVL

# Unit 4

## Place Value Concepts

### Big Idea 1: Tens and Teens

Textbook section	IXL skills
<b>4-1:</b> Introduction to Tens Groupings	1. Skip-counting by tens N89
<b>4-2:</b> Explore Teen Numbers	1. Counting tens and ones - up to 20 GU6 2. Write numbers as tens and ones up to 20 5HL
<b>4-3:</b> Represent and Compare Teen Numbers	1. Place value models up to 20 YPB 2. Compare numbers up to 20 using symbols Z53
<b>4-4:</b> Visualize Teen Addition	1. Make ten to add RNZ 2. Addition facts - sums up to 20 6TM
<b>4-5:</b> Teen Addition Strategies	1. Make a number using addition - sums up to 20 UMX 2. Addition word problems - sums up to 20 KY5 3. Addition sentences for word problems - sums up to 20 N5N
<b>4-6:</b> Investigate Doubles	1. Add doubles DFT 2. Add using doubles plus one XAY 3. Add using doubles minus one FRN  <i>Also consider</i> • Add doubles - with models HRW • Add doubles - complete the sentence TAZ

### Big Idea 2: Place Value to 100

Textbook section	IXL skills
<b>4-7:</b> Understand Tens and Ones	1. Write numbers as tens and ones 7WF 2. Place value models up to 100 5CG
<b>4-8:</b> Integrate Tens and Ones	1. Writing numbers with digits and words - up to 20 LWV



**4-9: Practice Grouping Ones into Tens**

1. Regroup tens and ones - ways to make a number JKT
2. Regroup tens and ones 5LV

*Also consider*

- Convert between tens and ones - multiples of 10 VH7

**4-10: Add with Groups of Ten**

1. Counting tens and ones - up to 99 EAN

**4-11: Practice with Tens and Ones**

1. Place value models up to 100 5CG

**4-12: Use Place Value to Compare Numbers**

1. Compare numbers up to 100 using symbols FU5

*Also consider*

- Compare numbers up to 100 using words BWC

**Big Idea 3: Addition Strategies****Textbook section****IXL skills****4-13: Add Tens or Ones**

1. Add two multiples of ten EMK

*Also consider*

- One or ten more CRB

**4-14: Mixed Addition with Tens and Ones**

1. Add a multiple of ten and a one-digit number DZN
2. Use models to add a multiple of ten and a one-digit number FKG

**4-15: Counting On Strategy: 2-Digit Numbers**

1. Use models to add a two-digit and a one-digit number - without regrouping MUX
2. Use models to add a two-digit and a one-digit number - with regrouping 8RL

**4-16: Practice with 2-Digit Numbers**

1. Add a one-digit number to a two-digit number - without regrouping - sums to 40 SJK
2. Add a one-digit number to a two-digit number - with regrouping - sums to 40 LSY

**4-17: 2-Digit Addition Games**

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



2. Add a one-digit number to a two-digit number - with regrouping BF6

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**4-18:** Focus on Mathematical Practices

1. Addition word problems - one-digit plus two-digit numbers 88Q
  2. Addition sentences for word problems - one-digit plus two-digit numbers 5LZ
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# Unit 5

## Place Value Solutions

### Big Idea 1: Teen Solution Methods

Textbook section	IXL skills
<b>5-1:</b> Unknown Partners with Teen Totals	1. Complete the addition sentence - sums up to 20 5BP
<b>5-2:</b> Subtraction with Teen Numbers	1. Subtraction facts - up to 20 PV5  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Make a number using subtraction - up to 20 JJS</li> <li>• Related subtraction facts XZB</li> <li>• Subtraction sentences: true or false? XRG</li> <li>• Subtraction sentences: which is true? A2N</li> </ul>
<b>5-3:</b> Mixed Practice with Teen Problems	1. Subtraction word problems - up to 20 9Q9  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Which sign makes the number sentence true? 7JY</li> </ul>
<b>5-4:</b> Small Group Practice with Teen Problems	1. Addition and subtraction word problems - up to 20 VJR 2. Addition and subtraction facts - up to 20 C78  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Addition and subtraction - ways to make a number Q8E</li> </ul>
<b>5-5:</b> Teen Problems with Various Unknowns	1. Complete the addition or subtraction sentence - up to 20 YKL  <i>Also consider</i> <ul style="list-style-type: none"> <li>• Subtraction sentences for word problems - up to 20 LJA</li> </ul>
<b>5-6:</b> Problems with Three Addends	1. Add three numbers - word problems Z7S 2. Add three numbers - make ten 8B2

*Also consider*

- Add three numbers RL2

**Big Idea 2: Find Patterns and Relationships**

Textbook section	IXL skills
<b>5-7:</b> Count with Groups of 10	<ol style="list-style-type: none"><li>1. Counting tens and ones - up to 99 EAN</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Count on ten frames - up to 40 WTZ</li><li>• Counting - up to 100 SUW</li><li>• Estimate to the nearest ten 9G2</li></ul>
<b>5-8:</b> Numbers Through 120	<ol style="list-style-type: none"><li>1. Hundred chart 64Q</li><li>2. Ten more or less CLA</li><li>3. Counting forward - up to 120 VZR</li></ol>
<b>5-9:</b> Add and Subtract Tens	<ol style="list-style-type: none"><li>1. Add a multiple of ten and a two-digit number LNL</li><li>2. Subtract multiples of 10 9DD</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Use models to add a multiple of ten and a two-digit number CSV</li></ul>
<b>5-10:</b> Add and Subtract Multiples of 10	<ol style="list-style-type: none"><li>1. Add and subtract tens J6G</li></ol> <p><i>Also consider</i></p> <ul style="list-style-type: none"><li>• Subtract a multiple of 10 PYR</li></ul>
<b>5-11:</b> Focus on Mathematical Practices	<ol style="list-style-type: none"><li>1. Addition and subtraction sentences for word problems - up to 20 VJ2</li></ol>

# Unit 6

## Comparisons and Data

### Big Idea 1: Represent and Compare Data

Textbook section	IXL skills
<b>6-1:</b> Explore Representing Data	1. Which tally chart is correct? XRL 2. Interpret tally charts LBV
<b>6-2:</b> Organize Categorical Data	
<b>6-3:</b> Use Stair Steps to Represent Data	1. Interpret picture graphs with 2 categories QNZ
<b>6-4:</b> Data Sets with Three Categories	1. Interpret picture graphs with 3 categories VVC
<b>6-5:</b> Data Collecting	1. Create picture graphs 8F5

### Big Idea 2: Compare Problem Types

Textbook section	IXL skills
<b>6-6:</b> Introduce Comparison Bars	1. Addition word problems - sums up to 20 KY5
<b>6-7:</b> Comparison Bars and Comparing Language	1. Subtraction word problems - up to 20 9Q9
<b>6-8:</b> Solve <i>Compare</i> Problems	1. Addition and subtraction word problems - up to 20 VJR

# Unit 7

## Geometry, Measurement, and Equal Shares

### Big Idea 1: Tell and Write Time

Textbook section	IXL skills
<b>7-1:</b> Introduction to Time	1. Match analog clocks and times: to the hour S75
<b>7-2:</b> Tell and Write Time in Hours	1. Match analog and digital clocks: to the hour 7B8
<b>7-3:</b> Time in Our Day	1. Read clocks and write times: to the hour 63H 2. Times of everyday events BXM  <i>Also consider</i> <ul style="list-style-type: none"> <li>A.M. or P.M. 7KN</li> </ul>
<b>7-4:</b> Tell and Write Time in Half-Hours	1. Match analog clocks and times 5FJ 2. Match analog and digital clocks 7N3
<b>7-5:</b> Practice Telling and Writing Time	1. Read clocks and write times UJM  <i>Also consider</i> <ul style="list-style-type: none"> <li>Match digital clocks and times KKM</li> <li>Compare clocks VRW</li> <li>Time and clocks: word problems NPR</li> </ul>

### Big Idea 2: Shapes and Equal Shares

Textbook section	IXL skills
<b>7-6:</b> Squares and Other Rectangles	1. Identify squares and other rectangles R8E  <i>Also consider</i> <ul style="list-style-type: none"> <li>Square corners YSG</li> <li>Count sides and corners VUQ</li> <li>Equal sides QT9</li> </ul>
<b>7-7:</b> Triangles and Circles	1. Name the two-dimensional shape MRF 2. Select two-dimensional shapes HV6

**7-8:** Equal Shares

1. Identify halves and fourths WVL
2. Make halves and fourths X5A

**7-9:** Compose 2-Dimensional Shapes

1. Compose two-dimensional shapes YEU

**7-10:** 3-Dimensional Shapes

1. Name the three-dimensional shape 26D
2. Select three-dimensional shapes J8A
3. Shapes of everyday objects I ZCN
4. Shapes of everyday objects II LFC

**7-11:** Compose 3-Dimensional Shapes

1. Count vertices, edges, and faces Z42
2. Identify shapes traced from solids NXF
3. Identify faces of three-dimensional shapes RPX

**Big Idea 3: Measure and Order by Length****Textbook section****IXL skills****7-12:** Order by Length

1. Compare objects: length and height D7U

**7-13:** Measure with Length Units

1. Measure length with objects GWG
2. Measure length with cubes FBV

**7-14:** Focus on Mathematical Practices

1. Make halves and fourths in different ways YJR

*Also consider*

- Measure height with cubes BLM

# Unit 8

## Two-Digit Addition

### Big Idea: Add 2-Digit Numbers

Textbook section	IXL skills
<b>8-1:</b> Explore 2-Digit Addition	1. Use models to add two-digit numbers - with regrouping CDU  <i>Also consider</i> <ul style="list-style-type: none"> <li>Use models to add two-digit numbers - without regrouping GJJ</li> </ul>
<b>8-2:</b> Methods of 2-Digit Addition	1. Add two-digit numbers with regrouping - sums to 40 Y8V  <i>Also consider</i> <ul style="list-style-type: none"> <li>Add two-digit numbers without regrouping - sums to 40 L7X</li> </ul>
<b>8-3:</b> Addition of Tens and Ones	1. Add two-digit numbers with regrouping - sums to 100 QHX  <i>Also consider</i> <ul style="list-style-type: none"> <li>Add two-digit numbers without regrouping - sums to 100 VZW</li> </ul>
<b>8-4:</b> Discuss Solution Methods	1. Ways to make a number using addition NTN
<b>8-5:</b> Practice 2-Digit Addition	1. Addition word problems - up to two digits T9S
<b>8-6:</b> Focus on Mathematical Practices	1. Write the addition sentence - up to two digits 8WT