**Third Grade Unit 1 Assessment**

**Teacher Guide**

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**This assessment assesses students’ ability to:**

* Use more than one strategy to efficiently solve addition and subtraction word problems.
* Find combinations of 2-digit numbers that equal 100.
* Write equations to represent combinations of 100.
* Add and subtract multiples of 10.
* Explain how they solved addition and subtraction problems.
* Estimate sums of 2-digit numbers up to 100.
* Keep track of all parts of a word problem.
* Represent problems using a letter or symbol to represent the unknown.

**Common Core Standards:**

This assessment addresses each of the following Common Core Standards (standards in red are major work standards for your grade level):

|  |  |
| --- | --- |
| **Standard** | **Questions** |
| 3.NBT.2 | 4, 6, 8, 9 |
| 3.OA.8 | 1, 2, 3, 5, 7 |

**Assessment Administration:**

This assessment is calculator inactive. Students should not use a calculator for this assessment. Students are required to receive all assessment accommodations as described in their Individualized Education Plans.

**Data Driven Instruction:**

This assessment is one data point and should be used with data gathered from multiple sources to make an informed decision about student misconceptions and mastery.

**3rd Grade Investigations Unit 1 Assessment – Scoring Guide**

|  |  |  |
| --- | --- | --- |
| **Question** | **Standard** | **Answer** |
| 1 | 3.OA.8 | A |
| 2 | 3.OA.8 | B |
| 3 | 3.OA.8 | C |
| 4 | 3.NBT.2 | A |
| 5 | 3.OA.8 | D |
| 6 | 3.NBT.2 | Rubric |
| 7 | 3.OA.8 | Rubric |
| 8 | 3.NBT.2 | Rubric |
| 9 | 3.NBT.2 | Rubric |

**Rubric Scoring Guide:**

Question 6 (3 points):

1 point – Student shows 1 or 2 correct ways to make 146

2 points – Student shows 3 or 4 correct ways to make 146

3 points – Student shows 5 or 6 correct ways to make 146

Question 7 (4 points):

Student receives 1 point for each of the following bullets:

* Student attempts to combine 48 and 46 to find the total number of cards Justin has now.
* Student work shows that Justin has 94 cards now.
* Student attempts to find the difference between the number of cards Justin and Steven have by adding up from Steven to Justin or subtracting back from Justin to Steven.
* Student states that Justin has 30 more cards than Steven (or the correct difference between the number of cards they found that Justin has now and Steven’s cards).

Question 8 (4 points):

Student receives 1 point for each of the following bullets:

* Student uses an open number line to solve this problem.
* Student work demonstrates the use of place value to solve (adding or subtracting ten or multiples of ten to find the difference)
* Student uses a second strategy to solve this problem.
* Student states that Charlie needs to read 62 more pages.

Question 9 (3 points):

Student receives 1 point for each of the following bullets:

* Student states that Kaylee can make 1 hundred from her blocks.
* Student states that Kaylee will have 86 blocks leftover.
* Student work shows an understanding of 10 tens being grouped to make one hundred and eight tens and 6 ones leftover.

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

**3rd Grade Investigations Unit 1 Assessment**



Directions: Solve each problem and show your work.

You may not use a calculator for this test.

1. Jada wants to collect 100 pennies. She finds 46 pennies in her piggy bank and 26 pennies in her purse. How many more pennies does Jada need?

A 28 B 38

C 54 D 72

2. Caleb used 76 Lego bricks to build a fort for his action figures. Then he decided to make some changes to his fort.

* He removed 18 bricks.
* He added 64 more bricks.

How many bricks are in Caleb’s Lego fort now?

A 58 B 122

C 132 D 158

3. What is the value of *S* in the following equation?

**49 + 29 = *S* + 8**

A 86 B 78

C 70 D 21

4. Kate worked on her homework this week for 110 minutes. She worked for 28 more minutes than her sister Callie. How many minutes did her sister Callie work?

A 82 B 92

C 98 D 138

5. What is the value of the *P* in the following equation?

**36 = *P* - 74**

A 28 B 38

C 100 D 110

6. Francesca bought 146 stickers at the sticker station. The stickers come in sheets of 100, strips of 10, and singles. Find at least 3 combinations of sheets, strips, and singles that she could have bought to equal 146 stickers. Write an equation for each one. Be sure to use all three kinds of stickers for these combinations.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sheets of 100** | **Strips of 10** | **Singles** | **Equation** |
| Way 1: |  |  |  |
| Way 2: |  |  |  |
| Way 3: |  |  |  |

Tyler bought 146 stickers at the sticker station too. He only bought strips of 10 and singles. Find at least 3 combinations of strips and singles that he could have bought to equal 146 stickers. Write an equation for each one. Be sure to use all both kinds of stickers for these combinations.

|  |  |  |
| --- | --- | --- |
| **Strips of 10** | **Singles** | **Equation** |
| Way 1: |  |  |
| Way 2: |  |  |
| Way 3: |  |  |

7. Steven has 64 baseball cards. His brother Justin had 46 baseball cards. Justin’s friend gave him 48 more cards. How many more cards does Justin have than Steven now? \_\_\_\_\_\_\_\_\_

Use numbers, equations, and words to show how you solved.

8. Charlie is reading a book about our solar system. He is on page 45. If the book has 107 pages, how many more pages does he need to read to finish the book?

Show two ways to solve this problem. Use an open number line as one way.

|  |
| --- |
| Way 1: Use an open number line. |
| Way 2: Show another way to solve this problem. |

9. Kaylee reached into a bag of base ten blocks and pulled out 18 ten strips and 6 ones.

How many hundreds can Kaylee make from her blocks? \_\_\_\_\_

How many will Kaylee have leftover? \_\_\_\_

Show how you know: