Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 2 Math Pre-Assessment: Developing Base Ten Number Sense**

**Directions:** Your teacher will read all the questions and answer choices to you aloud. Circle or write the answer below each question.

1. Jennifer has the number of crayons shown below. (MGSE1.NBT.1) (DOK 1) (3 pts.)



1. Show how Jennifer could group the crayons above to easily count them.
2. How many crayons does Jennifer have? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. If her friend, Maria, gives her 6 more crayons, how many crayons does Jennifer have now?

 Jennifer has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ crayons.

1. Juan counts by ones and reaches the number 90. (MGSE1.NBT.1) (DOK 1) (1 pt.)

What are the next 5 numbers after 90? \_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_

1. Greg begins counting backwards from 100. Finish his counting pattern. (MGSE1.NBT.1) (DOK 1) (1 pt.)

100, 90, \_\_\_\_\_\_\_, \_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_

1. Look at the number below. Put a line under the tens place and circle the ones place. Then draw a picture using tens and ones to show the value of the number. (MGSE1.NBT.1) (DOK 2) (3 pts.)

**78**

1. Which set of place value blocks shows 113? (MGSE1.NBT.1) (DOK 1) (1 pt.)



 a.) 



b.)



c.)



d.)

1. Place the following numbers on the number line below. (MGSE1.NBT.1) (DOK 1) (3 pts.)

**25 42 17 36 19 9**



**1**

7.) Which set of buttons shows the same as 5 tens and 2 ones? (MGSE1.NBT.1) (DOK 2) (1 pt.)



1. 







1. Is 76 larger or smaller than 67? Explain how you know on the lines below. (MGSE1.NBT.1) (DOK 3) (2 pts.)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Marco wants to buy a yo-yo and a toy truck at the toy store. A yo-yo costs 28 cents, and a toy truck costs 40 cents. He has in his hand 5 pennies and 3 dimes. Does Marco have enough money to buy both the yo-yo and the toy truck? (MGSE1.NBT.7) (DOK 2) (1 pt.)
2. Yes, Marco has enough money to buy both the yo-yo and the toy truck.
3. No, Marco can only buy the yo-yo.
4. No, Marco can only buy the toy truck.
5. No, Marco doesn’t have enough money to buy the yo-yo or the toy truck.
6. Melanie went with her class to her school’s book fair. She took the coins shown below with her. She is sad to see that she only has 8 cents, not enough money to buy an item from the fair. Her friend says that she counted the coins wrong. What does Melanie’s friend mean? How much money does Melanie have? Explain your answer below. (MGSE1.NBT.7) (DOK 3) (2 pts.)

 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Megan wants to buy a booklet of stickers from the store for 58 cents. She has 6 dimes. Does she have enough money to buy the stickers? Explain your thinking below. (MGSE1.NBT.7) (DOK 3) (2 pts.)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Darius and Brittany had a lemonade stand last Saturday. They sold each cup of lemonade for 6 cents. Their friend, Sarah, bought 4 cups of lemonade for 24 cents. Sarah gave them 2 pennies and 4 dimes. Darius thinks Sarah gave them too much money.

Did Sarah give them the right amount of money, or did she give them too much? Explain your answer in words or pictures. (MGSE1.NBT.7) (DOK 3) (2 pts.)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Tyler asked his classmates their favorite sport. Each ball below represents 1 student’s response, and shows what each student prefers. Sort the data into the table below. (MGSE1.MD.4) (DOK 2) (6 pts.)









|  |  |  |
| --- | --- | --- |
| **Sport** | **Tally Marks** | **Total** |
|  |  |  |
|  |  |  |
|  |  |  |

1. Write a question on the lines below that can correctly be answered by the data above. (MGSE1.MD.4) (DOK 2) (1 pt.)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Complete the table below by filling in the missing data. (MGSE1.MD.4) (DOK 1) (3 pts.)

 **How Many Students are Car Riders?**

|  |  |  |
| --- | --- | --- |
| **Grade Level** | **Tally Marks** | **Total** |
| 2nd Grade | ~~||||~~ ~~||||~~ ~~||||~~ ||| |  |
| 3rd Grade |  | 15 |
| 4th Grade | ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ |  |

Use the table above to answer questions 16-18.

1. Which statement below is true? (MGSE1.MD.4) (DOK 2) (1 pt.)
2. 4th grade has the fewest number of car riders.
3. There are the same number of car riders in 4th grade as there are in 3rd grade.
4. 2nd grade has the most car riders.
5. 2nd grade and 3rd grade together have 33 car riders.

**How Many Students are Car Riders?**

|  |  |  |
| --- | --- | --- |
| **Grade Level** | **Tally Marks** | **Total** |
| 2nd Grade | ~~||||~~ ~~||||~~ ~~||||~~ ||| |  |
| 3rd Grade |  | 15 |
| 4th Grade | ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ |  |

1. How many more 2nd graders are car riders than 3rd graders? How do you know? (MGSE1.MD.4) (DOK 3) (1 pt.)
2. 2 car riders because 20 – 18 = 2
3. 3 car riders because 18 - 15 = 3
4. 3 car riders because 15 - 18 = 3
5. 5 car riders because 20 - 15 = 5
6. How many car riders are there in all? (MGSE1.MD.4) (DOK 2) (1 pt.)
7. 38 car riders
8. 43 car riders

c.) 53 car riders

d.) 58 car riders

**Unit 2 Math Pre-Assessment: Developing Base Ten Number Sense**

**Answer Key**

1. a.) Students can group (circle) the crayons by 2s, 5s, or 10s

b.) 32 crayons

c.) 38 crayons

2.) 91, 92, 93, 94, 95

3.) 80, 70, 60, 50, 40



**78**

4.)

5.) C

6.)

**25 42 17 36 19 9**



 **9 17 19 25 36 42**

7.) C

1. Larger; Response should indicate that 76 and 67 should be compared using the digits in the tens place; 7 is larger than 6.

1. B
2. Melanie has 44 cents (4 dimes, 4 pennies), not 8 cents. She incorrectly counted each dime as the same value as a penny.
3. Yes, Megan has enough money to buy the booklet of stickers. She has 60 cents and the stickers cost 58 cents.
4. Darius is correct; Sarah gave them too much money. Students should explain that Sarah mistook a dime for a penny (10 cents vs. 1 cent). She only needed to give Darius and Brittany 2 dimes and 4 pennies, not 2 pennies and 4 dimes.

|  |  |  |
| --- | --- | --- |
| **Sport** | **Tally Marks** | **Total** |
| Volleyball | ~~||||~~ ~~||||~~ | | 11 |
| Soccer | ~~||||~~ ||||  | 9 |
| Tennis | ~~||||~~ ~~||||~~ ||| | 13 |

1. **Sample questions**: What sport do students like the best? Which sport do students like the least? How many more students like tennis than volleyball? How many students answered this survey?
2. **How Many Students are Car Riders?**

|  |  |  |
| --- | --- | --- |
| **Grade Level** | **Tally Marks** | **Total** |
| 2nd Grade | ~~||||~~ ~~||||~~ ~~||||~~ ||| | 18 |
| 3rd Grade | ~~||||~~ ~~||||~~ ~~||||~~  | 15 |
| 4th Grade | ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ | 20 |

1. D
2. B
3. C