

4th Grade Unit 1: Place Value (Form A)

Name _____

Date _____

Standards:

9.NBT.1 explain that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right (e.g., recognize that $700 \div 70 = 10$ by applying concepts of place value and division)

10.NBT.2 read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons

12.NBT.3 use place value understanding to round whole numbers to any place using tools such as a number line and/or charts

1. Solve:

$$360 = 10 \times \underline{\quad}$$

2. Use $<$, $>$, or $=$ to complete the sentence:

$$20,000+300+7 \underline{\quad} 20,000+30+7$$

3. **16 hundreds**
4 ten thousands
3 tens

Standard form: _____

Expanded form:

Word form: _____

4. **2 tens**
28 ones
5 hundred thousands

Standard form: _____

Expanded form:

Word form: _____

5. What is ten times more than one thousand, three hundred, sixty-seven?

6. How many times larger is the 8 in 9,800 than the 8 in 9,080?

7. How is the 5 in the number 3,592 similar to and different from the 5 in the number 35,392?

8. How many hundreds are in 7,000?
a. 7
b. 70
c. 700
d. 7,000

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9. Which number does **not** equal 7,463?
- a. 7 thousands + 4 hundreds + 5 tens + 13 ones
 - b. 5 thousands + 24 hundreds + 6 tens + 3 ones
 - c. 74 hundreds + 63 tens
 - d. 7 thousands + 46 tens + 3 ones

10. Write these two numbers in standard form and use $<$, $>$, or $=$ in the circle to complete the number sentence:

Fifty thousand eleven

Fifty thousand one hundred

_____ ○ _____

11. Explain how to round 6,785 to the nearest hundred:

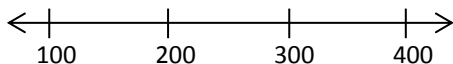
12. What is the place value of the underlined digit in 25,678?

- a. Hundreds
- b. Tens
- c. Ten thousands
- d. Thousands

13. What number has:

- 2 hundreds
- 13 tens
- 7 ones

Plot it on the number line:



14. In the number 3,768 what are the values of the following digits?

7 _____

8 _____

6 _____

3 _____

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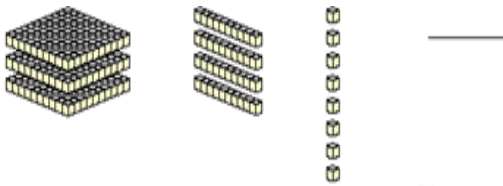
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15. Woodward Mill Elementary has 2,869 students and parents, Dyer Elementary has 2,789 students and parents, and Freeman’s Mill Elementary has 2,978 students and parents. Put these numbers in order from least to greatest.

16. Dr. Ergle needs 7,784 pieces of candy for the Spring Carnival. Candy is sold in bags of 100. How many bags of candy does Dr. Ergle need to order? Explain how you know.

17. Write the value for the base-10 blocks below.



How would the value of the blocks change if each cube equals 1,000?

18. Round the number **569,509** to the nearest ten:

to the nearest hundred:

to the nearest thousand:

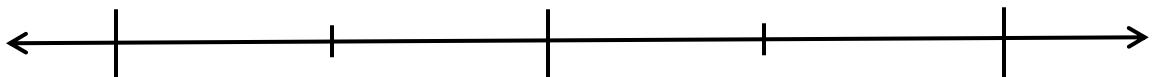
to the nearest ten thousand:

to the nearest hundred thousand:

19. Mr. K estimates that he has served 15,000 customers over the last 10 years. If Mr. K’s estimate is correct, which number could **NOT** be the exact number of customers served by Mr. K?

- a. 14,571
- b. 15,352
- c. 14,499
- d. 15,499

Plot the numbers on the number line below to prove your answer.

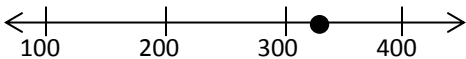


20. Johnny said that 53, 862 rounded to the nearest hundreds place is 53,800. Why is he incorrect? Explain your mathematical thinking.

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1. 36	2. $20,000 + 300 + 7$ <u>></u> $20,000 + 30 + 7$
3. Standard form: <u>41,630</u> Expanded form: $40,000 + 1,000 + 600 + 30$ Word form: <u>forty-one thousand, six hundred thirty</u>	4. Standard form: <u>500,048</u> Expanded form: $500,000 + 40 + 8$ Word form: <u>five hundred thousand, forty-eight</u>
5. 13,670	6. 10 times larger
7. The 5 in 35,392 is in the thousands place, and it's 10 times larger than the 5 in 3,592, which is in the hundreds place.	8. a. 7 b. 70 c. 700 d. 7,000
9. a. 7 thousands + 4 hundreds + 5 tens + 13 ones b. 5 thousands + 24 hundreds + 6 tens + 3 ones c. 74 hundreds + 63 tens d. 7 thousands + 46 tens + 3 ones	10. 50,011 < 50,100
11. Find the digit in the hundreds place. Look at the tens digit next to it. Decide if 80 is closer to 6,700 or 6,800. 80 is more than 50 (8 is more than 5), so you should round to 6,800.	12. a. Hundreds b. Tens c. Ten thousands d. Thousands
13. 337 	14. 7--700 8--8 6--60 3--3,000
15. 2,789 2,869 2,978	16. She will need 78 bags of candy. 7,784 rounds to 7,800 and that's the same as 78 hundreds.
17. 348 348,000	18. to the nearest ten: <u>569,510</u> to the nearest hundred: <u>569,500</u> to the nearest thousand: <u>570,000</u> to the nearest ten thousand: <u>570,000</u> to the nearest hundred thousand: <u>600,000</u>
19. Which number could NOT be the exact number of customers? a. 14,571 b. 15,352 c. 14,499 d. 15,499 Plot the numbers on the number line below to prove your answer.	20. Johnny forgot to look at the 60. It's more than 50 (or 5 tens), so he should round to 53,900.

