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 ÷ 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 x ___

2. Write the numbers in standard form

   20,000+300+7 _____

   20,000+30+7 _____

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

   Standard form: _____

4. **2 tens**
   8 thousands
   5 hundred thousands

   Standard form: _____

5. **946,120**

   Expanded form:

   _____

   Word form: _____

   _____

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

   Fifty thousand eleven

   Fifty thousand one hundred one

   _____ ◯ _____

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

   73,512 ◯ 73,152

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

   _____

9. What is the value of the **5**
   in the number 3,**5**92?_____
   in the number 4**5**,392? _____

10. What is the place value of the underlined digit in <u>3</u>25,678?

    a. tens c. hundred thousand
    b. hundreds d. ten thousands

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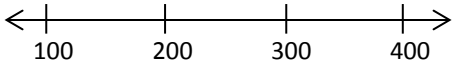
11. Which number does **not** equal 7,463?
    a. 7 thousands + 4 hundreds + 5 tens + 13 ones
    b. 5 thousands + 24 hundreds + 6 tens + 3 ones
    c. 74 hundreds + 63 tens
    d. 7 thousands + 46 tens + 3 ones

12. What is ten times more than two thousand, three hundred, sixty-seven? (Hint: Write the number in standard form first)

    _____x10 =_____

13. Plot the number 321 on the number line:

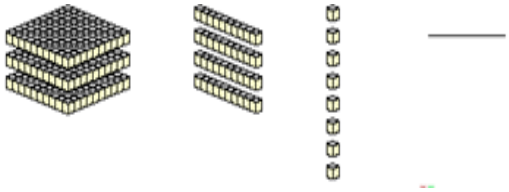


14. How many hundreds are in 7,000?
    a. 7
    b. 70
    c. 700
    d. 7,000

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



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

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Part 2: Rounding

1. What is 42,356 rounded to the nearest hundred?
   a. 400
   b. 40,000
   c. 42,300
   d. 42,400

2. Round the number **6,702,432** to the nearest million:

   _____

3. 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.

   _____
   _____
   _____
   _____

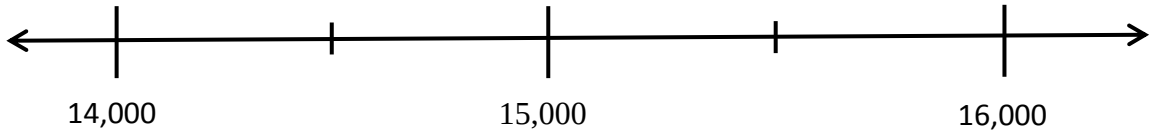
4. Round the number **6,509**
   to the nearest ten:
   _____
   to the nearest hundred:
   _____
   to the nearest thousand:
   _____

5. 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.

6. 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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Answer Key

1. 36

2. 20,307 20,037

3. Standard form: 5,610

4. Standard form: 508,020

5. **946,120**
   Expanded form: *900,000 + 40,000 + 6,000 + 100 + 20*
   Word form: *nine hundred forty-six thousand, one hundred twenty*

6. 50,011 (<) 50,101

7. 73,512 (>) 73,152

8. 10 times larger

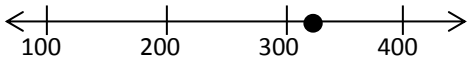
9. in the number 3,**5**92? 5*,000*
   in the number 4**5**,392? *500*

10. a. tens
    b. hundreds
    (c.) hundred thousand
    d. ten thousand

11. 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

12. *2,367* x10 = 23,670

13. 392



14. a. 7
    (b.) 70
    c. 700
    d. 7,000

15. 2,789 2,869 2,978

16. 348
    348,000

Part 2: Rounding

1. a. 400
   b. 40,000
   c. 42,300
   (d.) 42,400

2. *7,000,000*

3. *Dr. Ergle will need 78 bags of candy. 7,784 rounds to 7,800 and that's the same as 78 hundreds.*

4. to the nearest ten:
   6,510
   to the nearest hundred:
   6,500
   to the nearest thousand:
   7,000

5. Which number could **NOT** be the exact number of nails?
   a. 14,571 15,000
   b. 15,352 15,000
   (c.) 14,499 14,000
   d. 15,499 15,000

6. *Johnny forgot to look at the 60. It's more than 50 (or 5 tens), so he should round to 53,900.*