

Name _____ **Unit 1 Place Value Study Guide Answers**

Use the following number to answer the following questions. **1,067,258**

- 1.) What digit is in the thousands place? 7
- 2.) What digit is in the millions place? 1
- 3.) What is the **place** value of the digit 6? Ten thousands place
- 4.) What is the number 3,000 less than the number above? 1,064,258
- 5.) What is the number 200 more than the number above? 1,067,458
- 6.) What **period** is the digit 6 in? thousands period

Write the number described below in the following forms. **12 hundreds 4 ten thousands 9 ones**

- 7.) Standard form: 41,209
- 8.) Word form: Forty one thousand, two hundred nine
- 9.) Expanded form: 40,000 + 1000 + 200 + 9

- 10.) What is a ten times more than 3 thousand, one hundred twenty-two? $10 \times 3122 = 31,220$
- 11.) What is a hundred times more than one thousand, five hundred four? $100 \times 1504 = 150,400$
- 12.) How many times larger is the 5 in 15,600 than the 5 in 1,560? _____

$5000 \text{ vs } 500 \text{ what times } 500 = 5000 \quad 500 \times ?? = 5000 \quad 10$

- 13.) How is the 5 in the number **7,592** similar to or different from the 5 in the number **45,392**?

Lots of possibilities: similarities – same digit

Differences – different values, different periods, different numbers

- 14.) What is the place value of the underlined digit in 125,678? Hundred thousands

- 15.) Which number does not equal 1,362?

- | | |
|------------------------------------------------|------------------------------------------------------|
| a. 1 thousands + 3 hundreds + 5 tens + 12 ones | $a = 1362$ |
| b. 4 thousands + 23 hundreds + 6 tens + 2 ones | $b = 6362 \rightarrow B \text{ is the right answer}$ |
| c. 13 hundreds + 62 ones | $c = 1362$ |
| d. 1 thousands + 36 tens + 2 ones | $d = 1362$ |

16.) Explain how to round **5,021** to the nearest thousand.

Rounding to the nearest thousands means finding the multiple of thousands that 5021 is closest to. We do this by finding the digit in the thousands place value – the “5”, then we look at the “neighbor to the left” – “0” if it is 4 or less, we leave the 5 alone, if it is 5 or more, we add one to the 5. Since in our number is 4 or less, the 5 is left alone and the rest of the “neighbors” are turned to “000” to be a multiple of 1000. The final rounded number is 5000.

17.) Write these two numbers in standard form and use $<$, $>$, or $=$ to complete the sentence.

Sixty thousand one hundred

$>$

Sixty thousand two

60,100

60,002

18.) How many hundreds are in **900**?

a. 9

b. 90

c. 900

d. 9,000

19.) In the number **17,086** what are the values of the following digits?

1 10,000

0 0

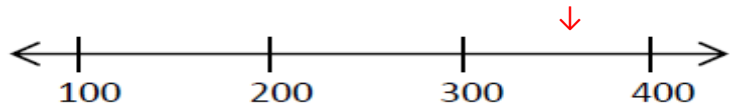
8 80

7 7,000

20.) What number has **2 hundred, 15 tens, and 8 ones**?

358

Plot that number on the number line.



21.) North Gwinnett High School has **3,052** students, Lanier High School has **4,859** students, and Mill Creek has **4,878** students. Put these numbers in order from greatest to least.

4,878

4,859

3,052

22.) Round the **107,956** to the following place values.

Nearest ten 107,960

Nearest ten thousand 110,000

Nearest hundred 108,000

Nearest hundred thousand 100,000

23.) Write the value of the base 10 blocks. 906

24.) How would the number above change if each of the cubes changed to **100**?

9 flats = 900 if 1 unit was 100, then 1 flat = 10,000 $\rightarrow 9 \times 10,000 = 90,000$

6 unit = 6 therefore, $6 \times 100 = 600$ $90,000 + 600 = 90,600$



25.) Mrs. Hartz needs **1,954** cotton swabs for the clinic. Cotton swabs are sold in boxes of **100**. How many boxes of cotton swabs does Mrs. Hartz need to order? _____ How do you know?

19 sets of 100 in 1900 BUT, Mrs. Hartz needs 1954... for the extra 54, we need to get 20 boxes. How do I know? $19 \times 100 = 1900 + 100 = 2000$ for at least 1954 swabs

26.) Trey said that **84,071** rounded to nearest thousand is **84,000**. Why is he correct? Explain.

Yes. Looking at the 4, because it is in the thousands place... we check the number to the right.. it is a 0. Because it is 4 or less... we leave the 4 alone. 84,071 rounded to the nearest thousand would be 84,000

27.) Mr. Chunn estimates that he has **24,000** nails in his hardware store. If Mr. Chunn's estimate is correct, which number could be the exact number of nails in the store?

a. **23,652**

b. 24,552

c. 23,499

d. 24,995

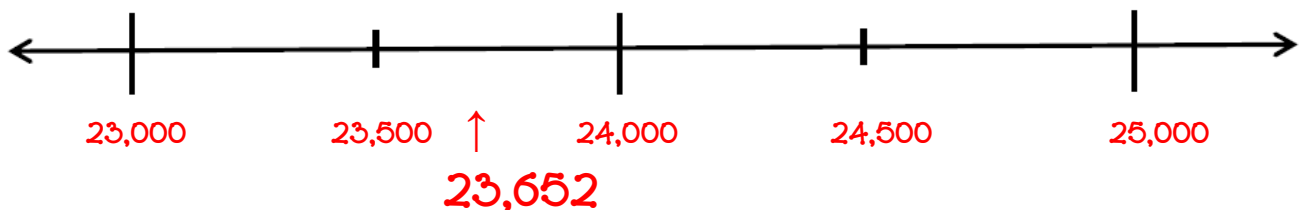
$23,652 \rightarrow 24,000 \checkmark$

$24,552 \rightarrow 25,000$

$24,552 \rightarrow 25,000$

$24,552 \rightarrow 25,000$

28.) Plot the number of nails that Mr. C has in his store.



This is just one possible answer.... Number line can be numbered differently. If you are unsure, please ask 😊