

Name

Date.....

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Math Unit I Study Guide

1. Which number has a value 10 times greater than 0.008?

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2. Write the following in standard form:
Six hundred seventy-two and one hundred thirty-five thousandths

*Hint: Make a place value chart!

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3. The Nike shoe factory makes 145.6927 pairs of shoe a day. Round the number to the following place values below.

*Hint: Don't forget to underline the place value and box in the bully.

Tenths:

Hundredths:

Thousandths:

4. Write the following number in expanded form (write it with fractions): 34.529

*Hint: Make a place value chart!

5. Mrs. Augsburger baked 4,982 cupcakes for a bake sale in March. In April, she baked 32 times as many cupcakes. How many cupcakes did she bake in April?

*Hint: Use algorithm to solve! Also, don't forget to check your work.

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6. Mrs. Cain is trying to use the order of operations to solve the following equation. What should she solve first? Explain.

*Hint: PEMDAS

$$\{ 6 + [7 \times (4 - 2) \div 2] \} =$$

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7. Multiply: $356 \times 87 =$

*Hint: Use algorithm! You may check with box method!

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8. Dividing 131,482 by which power of 10 will result in 131.482?

*Hint: To the left! To the left!

a. 10^2

b. 10^3

c. 10^4

d. 10^5

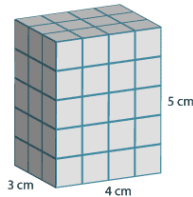
9. Find the quotient: $5,647 \div 45 =$

*Hint: Use the strategy that works best for you! Check with multiplication!

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10. Find the volume of the rectangular prism. Hint: $V = l \times w \times h$



..... cubic centimeters

11. The mass of a bag of oranges is three and four hundred nine thousandths kilograms. What is the mass of the bag of oranges, in kilograms, in expanded form (write it with decimals)?

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12. Which inequality correctly compares two and eighty-five thousandths and two and forty-six hundredths?

- a. $2.85 > 2.46$
- b. $2.085 < 2.46$
- c. $2.85 > 2.046$
- d. $2.085 > 2.46$

13. Of the following decimals, which is the greatest decimal that rounds to 36.25?

- a. 36.251
- b. 36.261
- c. 26.249
- d. 36.254

14. Compare the following number using $<$, $>$, or $=$.

1.963 ○ 1.98

15. Which represents the expression below?

$$2 \times (465 + 371)$$

- a. 2 more than 465 plus 371
- b. 2 times 465 plus 371
- c. 2 less than 465 plus 371
- d. 2 fewer than 465 plus 371

16. How much larger is the 6 in 36,716?

*Hint: Use the Power of 10!

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17. Use the space below to put the following numbers in order from greatest to least.

*Hint: Make a place value chart.

17.891 17.84 17.421 17.786 17.91

.....

18. Solve:

$$100 - 60 \div 5 \times 8 + 17 =$$

.....

19. Evaluate:

$$[(15-3) \times 12] \div 4 =$$

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20. Which expression has the greatest product?

- a. 65×14
- b. 43×16
- c. 55×15
- d. 70×12

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21. Guy is reading a science fiction book that is 558 pages long. If he reads 28 pages each day, how many days will it take him to read the books?

- a. 19 days
- b. 20 days
- c. 26 days
- d. 28 days

22. Solve:

a. $6.523 \times 10^3 =$

b. $7.52 \div 10^2 =$

23. How is the 3 in 3,456 related to the 3 in 2,345?

- a. The 3 in 3,456 is 100 times greater than the 3 in 2,345.
- b. The 3 in 2,345 is 10 times greater than the 3 in 3,456.
- c. The 3 in 2,345 is $\frac{1}{10}$ the 3 in 3,456.
- d. The 3 in 2,345 is $\frac{1}{100}$ the 3 in 3,456.

24. Look at the digit 5 in the number below:

89,653

In which number does the digit 5 have 100 times the value it has in 89,653?

- a. 1,672
- b. 25,461
- c. 64,258
- d. 96,432

25. The gold medal winning time in the women's 100-meter backstroke in the 2012 Summer Olympics was 58.331 seconds. Which shows the number name for the number of seconds?

- a. Five and eight hundred thirty-three thousandths
- b. Fifty-eight and thirty-three hundredths
- c. Fifty-eight and three hundred thirty-one thousandths
- d. Fifty-eight thousand, three hundred thirty-three