Name _____ Period_____ Date _____

Grade 5 Unit 1 Model Curriculum Assessment

1. What is the value of the expression?

$5 \times (3 + 4)$

a. 12
b. 19
c. 35
d. 60

2. Felicia is trying to simplify the expression $9 + (8 \times 9) - (18 \div 3)$. One step in Felicia's simplification could be any of the following EXCEPT

a. $9 + 66$
b. $9 + 72 - 6$
c. $(9 + 8) \times 9 - 6$
d. $9 + (8 \times 9) - 6$

3. What is the first operation to use to simplify the expression?

$3{,}500 \div \left[34 + 8 \times 2\right] - 4$

a. +
b. -
c. ×
d. ÷

4. What is the value of the expression?

$6 \times (400 + 100) - 250 \div 5$

5. Max has 8 boxes of cans for a food drive. Each box has 17 cans. Max gives half of the boxes to his teacher. Write an expression that represents the total number of cans in all the boxes that his teacher has.

6. Which expression represents

"*divide the sum of 11 and 17 by the product of 7 and 8*"?

a. $(8 \times 7) \div (11 + 7)$
b. $(11 + 17) \div (8 \times 7)$
c. $11 + 17 \div 8 \times 7$
d. $8 \times 7 \div 11 + 17$

7. Which words describe the expression $6 \times 8 \div (2 + 4)$?

   a. divide 8 by 2, add 4, and multiply 6

   b. divide the product of 6 and 8 by 2 and add 4

   c. divide the product of 6 and 8 by 2 and then by 4

   d. divide the product of 6 and 8 by the sum of 2 and 4

8. Clyde wrote this number: 352.867
   Sheila wrote this number: 589.021

   The digit 8 in Sheila's number represents how many times as much as the digit 8 in Clyde's number?

   a. 10 times
   b. 100 times
   c. 1,000 times
   d. 10,000 times

9. The place value of the 3 in 0.3 is how many times the place value of the 3 in 30 ? Explain your answer.

10. Which of the following is a number where the digit 2 represents $\frac{1}{10}$ the value of the digit 2 in the number 1,947.5286 ?

a. 1.002

b. 49.2173

c. 342.3897

d. 1,947.5862

11. When 256 is multiplied by a positive power of 10 the number of zeros in the product is related to the power of 10. Explain how the number of zeros relates to the power of 10.

12. What will be the result when 345.61 is

a. divided by 10 :

b. divided by 10^2 :

c. divided by 10^5 :

Use place value to explain how the number 345.61 changes when it is divided by a positive power of 10.

13. In the expression $852.763 \div 10^{?}$, supply the missing whole number that would result in a number that is $\frac{1}{1,000}$ times the value of 852.763. Explain your reasoning.

For questions 14-16, which symbol belongs in the box to make a true comparison? (use <, =, or >). Write your answer in the box.

14. 49.02 ☐ forty-nine and nineteen thousandths

15. Eight and nine hundred six thousandths ☐ $8 \times 1 + 9 \times \frac{1}{10} + 1 \times \frac{1}{100}$

16. Thirty-two and six hundred five thousandths ☐ $3 \times 10 + 2 \times 1 + 7 \times \frac{1}{10}$

17. 0.098, 1.001, 0.108, 1.02

Place the 4 numbers above in the boxes to make the full inequality statement below true.

☐ > ☐ > ☐ > ☐

18. The table shows the lengths of 4 pieces of rope.

Rope Lengths

Length (in meters)
5.46
5.089
5.6
5.17

Write these lengths from shortest to longest.

19. What is 475.189 rounded to the nearest hundredth?

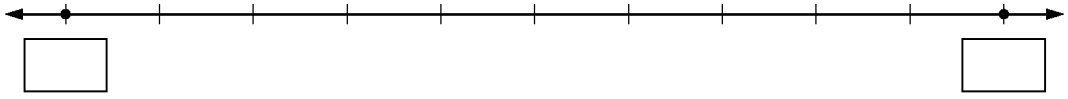
20. What is 0.5734 rounded to the nearest thousandth?

21. Sarina rounded a number to the nearest whole number and got 7. Which number could be the number Sarina rounded to the nearest whole number?

    a. 7.3782
    b. 7.6581
    c. 7.9275
    d. 8.3497

22. What is 635.974 rounded to the nearest tenth?

23. The number 5.267 will be rounded to the nearest hundredth. Between what two hundredths does 5.267 lie? Show these two values by placing numbers in the boxes below the number line. Place a point on the number line to show 5.267.



Explain why your answer is correct.

24. What is the product of 807 and 6 ?

25. Find the value of 359×8 using the standard algorithm. Show your work.

26. Find the product of 867 and 9 using the standard algorithm. Show your work.

27. What is the quotient of 4,738 divided by 23 ? Show your work.

28. Show why 4,830 divided by 42 is 115 with a calculation or a model.

29. Draw an area model that demonstrates that the quotient of 2,700 and 50 is 54, and explain how the model relates to the calculation.