**Directions:** Show all your work. Reflect on your previous test questions and prior homework assignments for guidance.

1. How many 1 millimeters tall would a cube be if it has a volume of 16 cubic millimeters and a base of 8 square millimeters? Write the volume formula to solve.
2. Order the following 6 numbers in order from least to greatest.

170.036 17.004 17.01 17.0009 18 17.034

1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3) Write a number in which a 5 is 1/10,000 another 5 in the number.

4) In the following number the 4 is 1/1,000 of which digit? 6,789.45

5) Write the following expanded form numbers in standard form:

(8 x 10) + (6 x 1) + (4 x 1/100) + (5 x 1/1,000) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(7 x 10,000) + (3 x 10) + (6 x 1/1,000) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(9 x 100) + (4 x 10) + (4 x 1/10) + (5 x 1/100) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6) Which number is 1/100 times the above expanded form numbers:

(8 x 10) + (6 x 1) + (4 x 1/100) + (5 x 1/1,000) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(7 x 10,000) + (3 x 10) + (6 x 1/1,000) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(9 x 100) + (4 x 10) + (4 x 1/10) + (5 x 1/100) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7) Calculate the quotient of 1.45 and 0.25

8) Round the following product to the nearest tens: 3.426 x 1.95

9) Complete each inequality using >, <, or =.

a. 30 x 1.01 \_\_\_\_30 b. 30 **÷** 1**.**4 \_\_\_\_\_30 c. 30 x .4 \_\_\_\_\_ 30 d. 30 **÷** 0.4 \_\_\_30

10) Fill in the blank to make the inequality true.

a. 100 x \_\_\_\_ > 100 b. 100 **÷**  \_\_\_\_\_ < 100 c. 100 x \_\_\_\_\_ < 100 d. 100 **÷** \_\_\_ > 100

Answer True of False.

11) \_\_\_\_\_\_\_\_\_\_\_\_Squares are rhombus.

12) \_\_\_\_\_\_\_\_\_\_\_\_Rectangles are squares.

13) \_\_\_\_\_\_\_\_\_\_\_\_ Squares are rectangles.

14)\_\_\_\_\_\_\_\_\_\_\_\_Rectangles are trapezoids.

15)\_\_\_\_\_\_\_\_\_\_\_\_Trapezoids are not polygons.

16) \_\_\_\_\_\_\_\_\_\_\_\_ Parallelograms are trapezoids.

17) \_\_\_\_\_\_\_\_\_\_\_\_Circles are not polygons.

18) \_\_\_\_\_\_\_\_\_\_\_\_Squares are rectangles.

19) \_\_\_\_\_\_\_\_\_\_\_\_Rectangles are rhombuses.

20)\_\_\_\_\_\_\_\_\_\_\_\_All parallelograms have two pairs of parallel and congruent sides.