**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 3,400 cubic millimeters and a base of 170 square millimeters? Write the volume formula to solve.
2. Order the following 6 numbers in order from least to greatest.

17.0036 1.7003 1.71 1.70003 1.8 1.70029

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

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

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

3) Write a number in which a 7 is 1/10,000 another 7 in the number.

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

5) Which number is 1/100 times the following expanded form number: (9 x 10) + (6 x 1/10) + (4 x 1/100) + (5 x 1/1,000)

6) Calculate the quotient of 14.5 and 0.25

7) Round the following product to the nearest tens: 342.6 x 1.95

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

a. 75.8 x 1.01 \_\_\_\_75.8 b. 807.4 **÷** 1**.**4 \_\_\_\_\_807.4 c. 75.8 x .4 \_\_\_\_\_ 75.8 d. 807.4 **÷** 0.4 \_\_\_807.49) John travels 3 miles each way to school. He remembered that he left his science project at home when he was 1/2 of the way to school.

a. How far did John travel before he realized he had left his project at home?

b. John then traveled back to school. How far did he travel in all?

10) Mary ran 5 1/4 miles on Monday. On Tuesday she ran half 1 ½ as much as she did on Monday. On Wednesday Mary ran 1/2 of what she ran on Tuesday. How much did she run each day? How much did she run in total from Monday to Wednesday?