**Directions:** Show all your work. Be sure to include units in your answer if applicable.

1. How many 1 millimeters tall would a cube be if it has a volume of 50 cubic millimeters and a base of 25 square millimeters? Write the volume formula to solve.
2. Order the following 6 numbers in order from least to greatest.

1.5006 15 1.56 1.506 1.5 1.5002

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

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

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

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

4) In the following number the 4 is 1/10 of which digit? 6,789.45

5) Which number is 1/100 times the following expanded form number: (8 x 10) + (6 x 1/10) + (4 x 1/100) + (5 x 1/1,000)

6) Calculate the quotient of 69.3 and 0.9

7) Round the following product to the nearest tens: 314.6 x 1.9

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

a. 75.8 x 1.4 \_\_\_\_75.8 b. 807.4 **÷ .**4 \_\_\_\_\_807.4 c. 75.8 x .4 \_\_\_\_\_ 75.8 d. 807.4 **÷** 4 \_\_\_807.4

9) John has to travel 2 $\frac{1}{5}$miles to school each day. He remembered that he left his science project at home when he was 2/3 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 3 1/4 miles on Monday. On Tuesday she ran half as much as she did on Monday. On Wednesday Mary ran 1/3 of what she ran on Tuesday. How much did she run each day? How much did she run in total from Monday to Wednesday?