Quiz 1A

1. Identify each of the following activities in the scientific method as an observation (O), a hypothesis (H), an experiment (E), or a theory (T) (2 points).
   1. Explains why nature behaves the way it does. \_\_T\_\_
   2. Collect data. \_\_O\_\_
2. Rank the following numbers from greatest to least (6 points):

0.15, 0.111 x 106, 4560, 5.48 x 104, 5.78 x 10-7, 15 x 100

0.111 x 106 > 5.48 x 104 > 4560 > 15 x 100 > 0.15 > 5.78 x 10-7

1. Using dimensional analysis convert 1.31 days to Ts (tera = T = 1012) (6 points).
2. How many significant figures are in the following (2 points):
   1. 0.45378 \_\_\_5\_\_\_
   2. 5.5 \_\_\_2\_\_\_
3. What topic in this class are you most looking forward to learning about (2 points)?
4. Fill in the blank or circle the correct choice (2 points):
5. Record all temperature readings to \_\_\_0.1\_\_\_\_\_\_\_ °C.
6. When finding the drops in a mL you will use a (graduated cylinder/beaker)
7. Complete the following calculation (2 points):

Quiz 1B

1. Rank the following numbers from greatest to least (6 points):

0.00034, 9.87 x 10-2, 1.23 x 106, 5.67 x 102, 0.234 x 106, 4560

* 1. 106 > 0.234 x 106 > 4560 > 5.67 x 102 > 9.87 x 10-2 > 0.00034

1. Are the following statements true (T) or false (F) (2 points)?
   1. Use weighing paper, weighing boats, or other containers on \_\_T\_\_

the balance pan.

* 1. Beakers and Erlenmeyer flasks are useful for measuring volumes. \_\_F\_\_

1. Using dimensional analysis convert 15.3 Ms to days (Mega = M = 106) (6 points).
2. Identify each of the following activities in the scientific method as an observation (O), a hypothesis (H), an experiment (E), law (L), or a theory (T) (2 points).
   1. Explains how nature behaves the way it does. \_\_L\_\_
   2. Design an experimental plan that will give new information \_\_E\_\_

about a problem.

1. Complete the following calculation (2 points):
2. What topic in this class are you most looking forward to learning about (2 points)?
3. How many significant figures are in the following (2 points):
4. 0.61 \_\_\_2\_\_\_
5. 453.2 \_\_\_4\_\_\_