

Ch 1/ PowerPoint Study–2 Measurement**Name:**

Answer these questions as you are watching the videos. They are due in class.

These questions are not just for you to answer but also to prepare you for the exam. So make sure you understand what you are writing and not just copy from the text book. **Show all work.**

1. Units (SI/non SI): Write three units of the following units. Write SI unit first.

Length

Weight

Temperature

2. Scientific Notation (Exponents): Write the following as scientific notation or the full number.

 3.40×10^4

0.0004758

10589

 6.7×10^{-6}

3. Precision and Accuracy: Which of the following measurements (a or b) can be classified as accurate?

a) A penny was weighed three times and the weight was: 4.50 g, 4.52 g and 4.51 g

b) Density of water is 1.00 g/mL and in the lab it was found to be: 1.008 g/mL, 1.007 g/mL, 1.008 g/mL

4. Significant Figures: How many significant figures are in the following numbers?

0.00458

 2.98×10^4

107

 2.9887×10^{-2}

10.040

5. Rounding off: Round off the following to 3 significant figures. Use exponents for your answer.

54201

0.0038266

10009