

Physics 200

Prelab assignment 1 (due at the beginning of lab)

Name: _____

Directions: Read over Lab 1 and then answer the following questions.

1. Round the following value and its uncertainty to the appropriate number of decimal places: 0.065962 ± 0.0027721 g.
2. What is the relative uncertainty of the measurement given in question 1? What is its percent uncertainty?
3. Do the following pairs of experimentally measured values agree? For each, briefly explain why or why not.
 - a) 1.27 ± 0.01 cm and 1.34 ± 0.04 cm
 - b) 9.81 ± 0.02 m/s² and 9.79 ± 0.02 m/s²
 - c) 332.86 ± 0.05 cm/s and 332.98 ± 0.04 cm/s
4. What can you say in general about velocity versus time for the graphs a and b in Activity 1-3, part 1?
5. *Prediction:* Draw your graph for Prediction 2-1 below:

