QUESTIONS TO HAND IN – EXPERIMENT 20

NAME_____

LAB INSTRUCTOR_____**LAB DAY/TIME**_____

1. A simple pendulum with a 50 gram bob is observed to have a period of 2 seconds. What is the period if the mass is doubled to 100 grams?

2. What property of the pendulum can you change to alter the period?

3. A pendulum is observed to have a period of 2.5 seconds in Ohio. It is taken to Denver, where the acceleration of gravity is lower. Do you expect the period to (circle one) **increase/decrease/stay the same**?

4. If the length of a pendulum is cut in half, by what factor does its period change?

5. Find the period of a pendulum that is 1 meter in length. Take g to be equal to 10 m/s^2.