**Honors Data Collection Make Up Quiz**

1. Determine how many significant figures there are in each of the following values (1 pt)

* 0.0034 grams \_\_\_\_\_\_
* 1.20 x 103 grams \_\_\_\_\_\_
* 1390 grams \_\_\_\_\_\_
* 1010. grams \_\_\_\_\_\_

1. What do the following prefixes mean?(1 pt ea)

* Micro \_\_\_\_\_\_\_\_\_
* Centi \_\_\_\_\_\_\_\_\_

1. Convert 0.0037 cm to m. (3 pt)
2. Convert 450 cg to mg. (5 pt)

Perform the following calculations. Show sig figs and units. (2 pt each)

1. 31.0 grams – 14.38 grams = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 720 meters – 1.67 meters = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 0.037 grams / 8 mL = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What is the difference between accuracy and precision? (3 pt)
5. Why is it sometimes improper to draw a line through the origin when you’re making a graph? (3 pt)
6. Estimate the width of your hand, in cm. (2 pt)