**General Chemistry Data Collection Quiz**

1. Determine how many sig figs there are in each of the following values:(1 pt ea)

* 0.034 grams \_\_\_\_\_\_
* 2.10 x 103 grams \_\_\_\_\_\_
* 0.0900 grams \_\_\_\_\_\_
* 1090.0 grams \_\_\_\_\_\_
* 1010 grams \_\_\_\_\_\_

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

* centi \_\_\_\_\_\_\_\_\_
* kilo \_\_\_\_\_\_\_\_\_

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

Perform the following calculations: (2 pt each)

1. 31.02 grams – 14.3 grams = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 721 meters – 1.67 meters = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 0.0370 grams / 8.2 mL = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. If I find that the mass of a banana is 340.00 grams,what does this tell me about the accuracy of this measurement? (3 pt)
5. Why is it sometimes improper to draw a line through the origin when you’re making a graph? (3 pt)
6. Find the width of your finger with a ruler to the right number of sig figs. Use the ruler shown below: (each line is 1 cm apart) (2 pt)

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