**Honor Sig Fig Quiz Sheet**

How many significant figures are in each of the following measured values? (1 pt each)

1. 3.0 grams \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 3.40 x 102 grams \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 39.0200 cm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 0.029 cm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 0.00020 grams \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Do each of the following calculations to the proper number of significant figures (3 pt each)*

1. If I have a hamster that’s 34 cm long, a worm that’s 8.2 cm long, and a dinosaur that’s 420.0 cm long, how long are all these pets when you put them end to end?
2. What’s the volume of some kind of machine part that has a density of 45.0 g/cm3 and a mass of 3.1 grams?
3. If it was a holiday of some sort and my uncle ate 450 ham sandwiches, each of which weighed 2.50 kg, how much weight would he gain?
4. Why is it right to say that measurements that are accurate are always precise but that measurements that are precise aren’t always accurate? (3 pt)