**The Honors Sig Fig Review Sheet for the Quiz that’s just on identifying Sig Figs and doing calculations involving them**

How many significant figures are in each of the following measurements:

1. 4.50 grams \_\_\_\_\_\_\_\_
2. 2.0 x104 grams \_\_\_\_\_\_\_
3. 0.0030 cm \_\_\_\_\_\_\_
4. 30.00030 cm \_\_\_\_\_\_\_
5. 0.0040300 cm \_\_\_\_\_\_

Do each of the following calculations to the proper number of significant figures:

1. If I have a puppy that’s 450 cm long, a cat that’s 300 long (when you can get it quiet enough to stretch it) and a pet but that’s 0.93 cm long, how long are all of these pets when you put them in a straight line?
2. If I have a cat with a density of 1.3 x 102 g/cm3 (which is enormously dense) and has a volume of 949 cm3, how much does it weigh?
3. If the toes of the 21 students in my class each weighs 3.40 grams, what is the total mas of human toes in my classroom?
4. Why do we care about significant figures at all?