**Density & SigFig Test**

**SHOW ALL WORK.**

**Test B**

Match each number to the correct number of significant figures. (**4 points**)

1) \_\_\_\_ a. 0.123 g

2) \_\_\_\_ b. 0.0025 mL

3) \_\_\_\_ c. 1000 cm

4) \_\_\_\_ d. 65 paperclips

5) Draw a target with three x's on it that show accuracy. (**1 point**)

6) What is the density of an object that has sides equal to 5cm, 4cm, and 2cm if the object has a mass of 80g? (**4 points**)

7) What is the mass of an object with a volume of 5mL and a density of 2g/mL? (**3 points**)

8) I have 1kg of feathers and a 1kg rock. Which of these has a greater mass and why? Which of these has a greater volume and why? (**4 points**)

9) Draw a target with three x's on it that show precision. (**1 point**)

10) What is the volume of an object that has mass of 500g and density of 5g/mL? (**3 points**)

11) An irregular object is placed in a glass tube that originally has 5mL of water in it. After the object was placed in the tube, the amount of water read 10mL. The object has a mass of 25g. What is the density of the object? (**4 points**)

12) What is the density of an object that has a mass of 20g and a volume of 4mL? (**3 points**)

**BONUS (3 points)**

Define an element, a compound, and a mixture.

**Element-**

**Compound-**

**Mixture-**