Name: _____ **Date:** _____ **Worksheet**
Chemistry

Measurements

Convert the following metric measurements.

1) 1.2 g = _____mg

2) 6.3 cm = _____mm

3) 5.12 m = _____cm

4) 6.111 mL = _____L

Determine how many significant figures are in each of the following.

5) 1.01 _____

6) 200.0 _____

7) 0.0021 _____

8) 0.0230 _____

Directions: A material will float on the surface of a liquid if the material has a density less than that of the liquid. Perform the following calculations.

_____ Given that the density of water is approximately 1.0 g/mL, will a block of material having a volume of 1.2×10^4 cm^3 and weighing 350 kg float or sink when placed in a reservoir of water?

_____ A 25.00 g sample of a solid is placed in a graduated cylinder and then the cylinder is filled to the 50.0 mL mark with benzene. The mass of benzene and the solid together is 58.80 g.

Assuming that the solid is insoluble in benzene and that the density of benzene is 0.880 g/cm^3, calculate the density of the solid.

"Unless you change how you are, you will always have what you've got."
– Jim Rohn