Density Worksheet
Physical Science
D=m/V

Densities of Common Substances @ 20°C				
Substance	**Density (g/cm^3)**		**Substance**	**Density (g/cm^3)**
Oxygen	0.00133		Aluminum	2.70
Hydrogen	0.000084		Iron	7.87
Ethanol	0.785		Copper	8.96
Benzene	0.880		Silver	10.5
Water	1.000		Lead	11.34
Magnesium	1.74		Mercury	13.6
Salt (sodium chloride)	2.16		Gold	19.32

1. The ratio of an object's mass to its _____ is called the *density* of the object.

2. A kilogram of lead occupies a much smaller volume than a kilogram of water, because _____ has a much higher *density*.

3. For the masses and volumes indicated, calculate the **density** in grams per cubic centimeters.

   a. mass = 453 g; volume = 225 cm3

   b. mass = 5.0 g; volume = 10.0 cm3

   c. mass = 26.1 g; volume = 2.0 mL

4. If 89.2 mL of a liquid has a mass of 75.2 g, calculate the liquid's density.

5. A cube of metal weighs 1450 g and displaces 542 mL of water when immersed. Calculate the density of the metal.