Work Homework   Name _____

Problems (Always Show Your Work and units – g, mL, cm3 , g/cm3 , g/mL):

1. M = 35g, V = 17cm3 Density = _____

2. M = 40g, V = 31cm3 Density = _____

3. A 10.0 cm³ unknown has a mass of 93.0 g. What is the density of the unknown? _____

   What is the identity of the unknown? _____

4. Silver has a density of 10.5 grams/cm³ and gold has a density of 19.3 g/cm³.

    Which would have the greater mass, 5cm³ of silver or 5cm³ of gold?_____

5. One side of a cube is 6 cm long. Its weight is 220 g.

   What is the density of the cube? _____

6. A sample has the same dimensions of 2 cm x 3 cm x 2cm. The mass of this rectangular

   prism is 94 g.

   What is the density sample?_____

   What is the identity of the sample?_____

Common Substances	Density (g/cm³)
Copper	9.3
Gold	19.3
Steel	8.2
Silver	10.5
Iron	7.87