Name: _____ Date: _____

Density Questions

Part A: Circle the correct answer.

1. Density is defined as
   (a) mass × acceleration
   (b) $\frac{\text{mass}}{\text{volume}}$
   (c) $\frac{\text{volume}}{\text{mass}}$
   (d) mass × volume

Part B: Answer the following questions.

2. Use the given measurements to calculate density.
   (a) mass = 7.2 g, volume = 3 cm^3
   (b) mass = 5200 g, volume = 2 m^3
   (c) mass = 6300 g, volume = 9 L

3. A metal sample has a mass of 35 000 kg and a volume of 4.0 m^3. What is the density of the metal?

4. A metal sample with a mass of 1498 g occupies a volume of 70 cm^3. Use the table below to identify the metal. (Recall, 1 cm^3 = 1 mL.)

Type of metal	Density
gold	19.3 g/mL
iron	7.9 g/mL
silver	10.5 g/mL
platinum	21.4 g/mL

The metal is _____.