

Name: _____ Period: _____ Date: _____

Density Pre-Lab Questions

Show all your work and box your answers where applicable.

1. Define Density: _____

2. A chunk of metal weighing 15.45g is added to 21.27 mL of water in a graduated cylinder. The water level rises to 24.78 mL. Calculate the density of the metal.
3. An empty beaker weighs 32.4257 g. A 10-mL pipet sample of an unknown liquid is transferred to the beaker. The beaker weighs 40.1825 g when weighed with the liquid in it. Calculate the density of the unknown liquid.
4. When determining the density of a pure liquid or a solution, the *temperature* of the sample must be measured. Why does the density of a liquid sample depend on the temperature?

5. What are the two ways that the volume of a solid can be determined?

