

Density Worksheet

Name: _____

Date: _____

Please answer all questions as completely as possible showing all calculation and work needed. Also don't forget to include your units!

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

- 1) Rearrange the density equation for the following:

Mass =

Volume =

- 2) Calculate the density of a material that has a mass of 52.457 g and a volume of 13.5 cm³.
- 3) A student finds a rock on the way to school. In the laboratory he determines that the volume of the rock is 22.7 mL, and the mass is 39.943 g. What is the density of the rock?
- 4) The density of silver is 10.49 g/cm³. If a sample of pure silver has a volume of 12.993 cm³, what would the mass?
- 5) What is the mass of a 350 cm³ sample of pure silicon with a density of 2.336 g/cm³?