Density Classwork

Density = (Mass/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 lab, 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 is the mass of the sample?

5. What is the volume of a 350g sample of pure silicon that has a density of 2.336 g/cm3?