



## Density Worksheet

Answer the questions about density. You can use a calculator. Remember that  $\text{Density} = \text{Mass} / \text{Volume}$ . You can reverse that to be  $V=M/D$  and  $M=D*V$ .

1. A container has a capacity of 1400 milliliters. If the density of ethanol is .789 g/mL, what mass of ether can the bottle hold?
2. 200 grams of a liquid fills a 400 mL container. What is the density of the liquid?
3. If a block of iron measures 1 cm x 2 cm x 3 cm and weighs 47.16 grams, what is its density?
4. The density of mercury is 13.6 g/mL. What is the mass of 10 mL of mercury?
5. If a solution has a density of 2.5 g/mL, how many grams are needed to obtain 10 mL of solution?
6. A piece of silver has a mass of 3360 grams and occupies a volume of 320 cm<sup>3</sup>. What is the silver's density?