

Name _____

Date _____

DENSITY WORKSHEET

$$\text{Density} = \frac{\text{mass}}{\text{volume}}$$

Find the unknown quantity.

D = 3 g/mL
V = 100 mL
m = ?

D = ?
V = 950 mL
m = 95 g

D = 0,5 g/cm³
V = ?
m = 20 g

Calculate each problem below.

1. Find the density of 35.0 g of a substance that occupies 25.0 ml
2. Find the density of 2750 g of a substance that occupies 250 mL.
3. The density of ethanol is 0,789 g/ml at 20.C. What is the mass of 150 mL of this alcohol?
4. A block of lead displaces a volume of 27,00 mL. Calculate the mass of this block, if the density of lead is 11,34 g/mL
5. What is the mass of a liquid having a density of 1,40 g/mL and a volume of 3090 ml
6. What volume would a 200 g sample of gold have, if its density is known to be 19,3 g/cm³?
7. Find the density of 2,80 g of a substance that occupies 2,00 L. Remember to change liters to milliliters.