FOR ALL ANSWERS!!!! UNITS

1. Write a definition for density.

The amount of mass per volume

2. Write the mathematical formulas for the following values:

Mass	Volume
D * v	$\frac{m}{D}$
	D × V

3. Calculate **density** if mass = 54g and volume = 6cm³

$$\frac{54g}{6cm^3} = 99/cm^3$$

4. Calculate \underline{mass} if density = 20g/mL and volume = 15mL

5. Calculate **volume** if mass = 42g and density = 6g/cm³

$$\frac{42g}{6g/cm^3} = \boxed{7 \text{ cm}^3}$$
6. What would be the $\frac{\text{mass}}{\text{mass}}$ of a 7.0 mL sample of material if it had a density of 5.0 g/mL?

7. What would be the volume of a 24.0 g sample of material if it had a density of 8.0 g/mL?

8. Calculate the density of a material for which a 6.4 mL sample has a mass of 13.203 g.