

Required Elements When Solving Density Problems

- Read the Problem: -- what is the question?

- Density (D)?

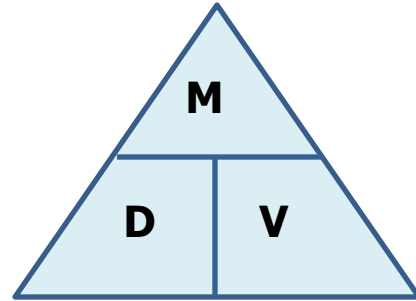
$$D = \frac{M}{V}$$

- Mass (M)?

$$M = D * V$$

- Volume (V)?

$$V = \frac{M}{D}$$



- Write the equation you will use to solve the problem.
- Find the needed information in the problem.
- Rewrite the equation with the information – DON'T forget to include the units.
- If you need to calculate the volume from information in the problem you must include the formula for this calculation
 - volume = length * width * height
 - Then rewrite the formula with the information (DON'T forget to include the units)
- Check your math and when writing your final answer make sure you use the correct units

Units for mass = grams (g)

Units for volume = centimeter cubed (cm³) or milliliter (mL)

Units for density = $\frac{\text{grams (g)}}{\text{cm}^3}$ or $\frac{\text{grams (g)}}{\text{mL}}$