

#1

1. Write formula

$$D = \frac{m}{v}$$

2. Plug in the measurements **with labels**

$$D = \frac{m}{v} \quad \frac{24 \text{ g}}{16 \text{ mL}}$$

3. Box out units and move the fractional unit to set up for your final answer

$$D = \frac{m}{v} \quad \frac{24 \text{ g}}{16 \text{ mL}}$$



$$D = \underline{\hspace{1cm}} \text{ g/mL (angle the division line)}$$

4. Divide the numbers

$$\begin{array}{r} \underline{1.5} \\ 16 \overline{) 24.0} \\ \underline{-16} \downarrow \\ 80 \\ \underline{-80} \\ 0 \end{array}$$

5. Write the quotient in your final answer (Be sure it appears as an equation with a label)

$$D = 1.5 \text{ g/mL}$$

#2

1. Write formula

$$D = \frac{m}{v}$$

2. Plug in the measurements **with labels**

$$D = \frac{m}{v} = \frac{43.5 \text{ g}}{15 \text{ cm}^3}$$

3. Box out units and move the fractional unit to set up for your final answer

$$D = \frac{m}{v} = \frac{43.5 \text{ g}}{15 \text{ cm}^3}$$



$$D = \frac{43.5}{15} \text{ g/cm}^3 \text{ (angle the division line)}$$

4. Divide the numbers

$$\begin{array}{r} \underline{2.9} \\ 15 \overline{) 43.5} \\ \underline{-30} \downarrow \\ 135 \\ \underline{135} \\ 0 \end{array}$$

5. Write the quotient in your final answer (Be sure it appears as an equation with a label)

$$D = 2.9 \text{ g/cm}^3$$