

2.

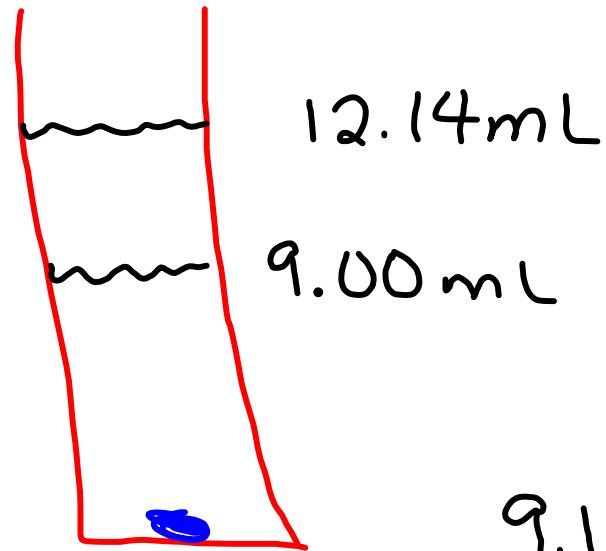
$$\frac{\text{mass}}{\text{volume}}$$

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

$$\frac{21.49}{21.5} = 0.999534 \text{ g}$$

$9.99534 \times 10^{-1} \text{ mL}$
1.00
g/mL

3.



$$\begin{array}{r} 12.14 \\ 9.00 \\ \hline 3.14 \end{array}$$

$$\frac{9.18 \text{ g}}{3.14 \text{ mL}} = 2.9235 \frac{\text{g}}{\text{mL}}$$
$$2.92 \frac{\text{g}}{\text{mL}}$$

$$\frac{2.92 \cancel{\text{g/mL}}}{1.00 \cancel{\text{g/mL}}} = 2.92 \text{ SG}$$

4.

$$\begin{array}{r} 23.463\text{ g} \\ - 21.374\text{ g} \\ \hline 2.089\text{ g} \end{array}$$

2.089 mL

Water
1 mL = 1 g

$$\frac{23.463\text{ g}}{2.089\text{ mL}} = 11.2316\text{ g/mL}$$

$$\boxed{1.12316} \times 10^1\text{ g/mL}$$

$$1.123 \times 10^1\text{ g/mL}$$

Calipers

45.3 mm

cm

$$\frac{45.3 \text{ mm} \times 1 \text{ m} \times 100 \text{ cm}}{1000 \text{ mm} \times 1 \text{ m}} =$$

4.53 cm

mm to cm move the
decimal 1 to the left.

$$5. \quad 2.63 \text{ cm} \quad h = 1.72 \text{ cm}$$

$$V = \pi r^2 h$$

$$V = \pi (2.63 \text{ cm})(2.63 \text{ cm})(1.72 \text{ cm})$$

$$V = 37.3757 \text{ cm}^3$$

$$1 \text{ cm}^3 = 1 \text{ mL}$$

$$37.3757 \text{ mL}$$

$$\boxed{3.73757} \times 10^1 \text{ mL}$$

$$3.74 \times 10^1 \text{ mL}$$

$$\boxed{3.73757} \times 10^1 \text{ mL}$$

$$\frac{78.53 \text{ g}}{3.73757 \times 10^1 \text{ mL}} =$$

$$\frac{78.53 \text{ g}}{37.3757 \text{ mL}} =$$

$$2.101 \frac{\text{g}}{\text{mL}} \quad 2.10 \text{ g/mL}$$

$$2.10$$