



Density Calculations Worksheet I

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

UNITS OF DENSITY

solids (g/cm³)

liquids (g/mL)

1. Find the unknown quantity:

a) $d = 3 \text{ g/mL}$
 $V = 100 \text{ mL}$
 $M = ?$

$$m = d \times v$$
$$= (3 \text{ g/mL})(100 \text{ mL})$$
$$= 3 \times 10^2 \text{ g}$$

b) $d = ?$
 $V = 950 \text{ mL}$
 $M = 95 \text{ g}$

$$d = \frac{m}{V}$$
$$= \frac{95 \text{ g}}{950 \text{ mL}} = 0.10 \text{ g/mL}$$

c) $d = 0.5 \text{ g/cm}^3$
 $V = ?$
 $M = 20 \text{ g}$

$$V = \frac{m}{d}$$
$$= \frac{20 \text{ g}}{0.5 \text{ g/cm}^3} = 4 \times 10^1 \text{ cm}^3$$

2. Find the unknown quantity (CONVERT FIRST to g or mL)

a) $d = 24 \text{ g/mL}$
 $V = 1.2 \text{ L} = \underline{1200} \text{ mL}$
 $M = ?$

$$m = d \times v$$
$$= (24 \text{ g/mL})(1200 \text{ mL})$$
$$= 2.9 \times 10^4 \text{ g}$$

b) $d = ?$
 $V = 100 \text{ mL}$
 $M = 1.5 \text{ kg} = \underline{1500} \text{ g}$

$$d = \frac{m}{V}$$
$$= \frac{1500 \text{ g}}{100 \text{ mL}} = 15.0 \text{ g/mL}$$

c) $d = ?$
 $V = 0.52 \text{ L} = \underline{520} \text{ mL}$
 $M = 500 \text{ mg} = \underline{0.500} \text{ g}$

$$d = \frac{m}{V}$$
$$= \frac{0.500 \text{ g}}{520 \text{ mL}} = 9.62 \times 10^{-4} \text{ g/mL}$$

WORD PROBLEMS

1. A block of aluminum occupies a volume of 15.0 mL and weighs 40.5 g. What is its density?

$$V = 15.0 \text{ mL}$$
$$m = 40.5 \text{ g}$$
$$d = ?$$

$$d = \frac{m}{V}$$
$$= \frac{40.5 \text{ g}}{15.0 \text{ mL}}$$

$$d = 2.70 \text{ g/mL}$$

2. Mercury metal is poured into a graduated cylinder that holds exactly 22.5 mL. The mercury used to fill the cylinder weighs 306.0 g. From this information, calculate the density of mercury.

$$V = 22.5 \text{ mL}$$
$$m = 306.0 \text{ g}$$
$$d = ?$$

$$d = \frac{m}{V} = \frac{306.0 \text{ g}}{22.5 \text{ mL}} = 13.6 \text{ g/mL}$$

M Elkhatib Calculations Worksheet Answers

DJ Losen



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