

SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME: _____

1) A student measures the mass of an 8 cm³ block of brown sugar to be 12.9 g. What is the density of the brown sugar?

$$D = \frac{M}{V} = \frac{12.9 \text{ g}}{8 \text{ cm}^3} = 1.6125 = 1.61 \text{ g/cm}^3$$

2) A chef fills a 50 mL container with 43.5 g of cooking oil. What is the density of the oil?

$$D = \frac{M}{V} = \frac{43.5 \text{ g}}{50 \text{ mL}} = 0.87 \text{ g/mL}$$

3) Calculate the mass of a liquid with a density of 2.5 g/mL and a volume of 15 mL.

$$15 \text{ mL} \left| \begin{array}{l} 2.5 \text{ g} \\ \hline 1 \text{ mL} \end{array} \right. = 37.5 \text{ g}$$

4) Calculate the volume of a liquid with a density of 5.45 g/mL and a mass of 65 g.

$$65 \text{ g} \left| \begin{array}{l} 1 \text{ mL} \\ \hline 5.45 \text{ g} \end{array} \right. = 11.9 \text{ mL}$$

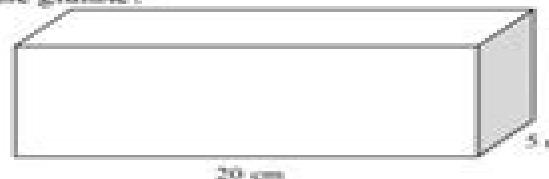
5) A machine shop worker records the mass of an aluminum cube as 176 g. If one side of the cube measures 4 cm, what is the density of the aluminum?

$$V = 4 \text{ cm} \times 4 \text{ cm} \times 4 \text{ cm} = 64 \text{ cm}^3 \quad D = \frac{176 \text{ g}}{64 \text{ cm}^3} = 2.75 \text{ g/cm}^3$$

6) A teacher performing a demonstration finds that a piece of cork displaces 23.5 mL of water. The piece of cork has a mass of 5.7 g. What is the density of the cork?

$$D = \frac{M}{V} = \frac{5.7 \text{ g}}{23.5 \text{ mL}} = 0.2425531915 = 0.243 \text{ g/mL}$$

7) A carver begins work on the following block of granite that weighs 2700 g. What is the density of the granite?



$$V = 20 \text{ cm} \times 5 \text{ cm} \times 10 \text{ cm}$$

$$V = 1,000 \text{ cm}^3$$

$$D = \frac{2700 \text{ g}}{1000 \text{ cm}^3} = 2.7 \text{ g/cm}^3$$

8) A piece of PVC plumbing pipe displaces 60 mL when placed into a container of water. If the pipe has a mass of 78 g, what is the density of PVC?

$$D = \frac{M}{V} = \frac{78 \text{ g}}{60 \text{ mL}} = 1.3 \text{ g/mL}$$

9) A solid magnesium flare has a mass of 1300 g and a volume of 743 cm³. What is the density of the magnesium?

$$D = \frac{M}{V} = \frac{1300 \text{ g}}{743 \text{ cm}^3} = 1.749663526 = 1.75 \text{ g/cm}^3$$

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Hussin A.Rothana

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