

# SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME: Key

- 1) A student measures the mass of an  $8 \text{ cm}^3$  block of brown sugar to be  $12.9 \text{ g}$ . What is the density of the brown sugar?

$$m = 12.9 \text{ g}$$

$$V = 8 \text{ cm}^3$$

$$D = ?$$

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

$$D = \frac{12.9 \text{ g}}{8 \text{ cm}^3}$$

$$D = 1.6125 \text{ g/cm}^3$$

- 2) A chef fills a  $50 \text{ mL}$  container with  $43.5 \text{ g}$  of cooking oil. What is the density of the oil?

$$V = 50 \text{ mL}$$

$$m = 43.5 \text{ g}$$

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

$$D = \frac{43.5 \text{ g}}{50 \text{ mL}}$$

$$D = .87 \text{ g/mL}$$

- 3) Calculate the mass of a liquid with a density of  $2.5 \text{ g/mL}$  and a volume of  $15 \text{ mL}$ .

$$D = 2.5 \text{ g/mL}$$

$$V = 15 \text{ mL}$$

$$2.5 \text{ g/mL} = \frac{m}{15 \text{ mL}}$$

$$m = (2.5)(15)$$

$$m = 37.5 \text{ g}$$

- 4) Calculate the volume of a liquid with a density of  $5.45 \text{ g/mL}$  and a mass of  $65 \text{ g}$ .

$$D = 5.45 \text{ g/mL}$$

$$m = 65 \text{ g}$$

$$5.45 = \frac{65}{V}$$

$$V = \frac{65}{5.45}$$

$$V = 11.93 \text{ mL}$$

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

$$m = 176 \text{ g}$$

$$V = L \times W \times H$$

$$D = \frac{176 \text{ g}}{64 \text{ cm}^3}$$

$$D = 2.75 \text{ g/cm}^3$$

- 6) A scientist performing a demonstration finds that a piece of cork displaces  $23.8 \text{ mL}$  of water. The piece of cork has a mass of  $5.8 \text{ g}$ . What is the density of the cork?

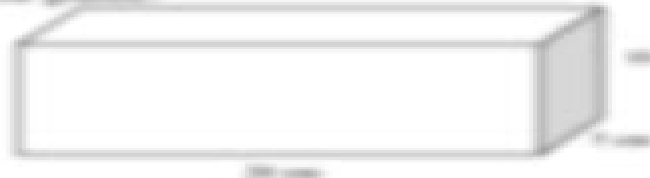
$$m = 5.8 \text{ g}$$

$$V = 23.8 \text{ mL}$$

$$D = \frac{5.8}{23.8}$$

$$D = .24 \text{ g/mL}$$

- 7) A carpenter begins work on the following block of granite that weighs  $2700 \text{ g}$ . What is the density of the granite?



$$m = 2700 \text{ g}$$

$$V = L \times W \times H$$

$$= 20 \times 10 \times 8$$

$$= 1600 \text{ cm}^3$$

$$D = \frac{2700}{1600}$$

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

- 8) A piece of PVC plumbing pipe displaces  $48 \text{ mL}$  when placed into a container of water. If the pipe has a mass of  $78 \text{ g}$ , what is the density of PVC?

$$V = 48 \text{ mL}$$

$$m = 78 \text{ g}$$

$$D = \frac{78}{48}$$

$$D = 1.63 \text{ g/mL}$$

- 9) A solid magnesium flake has a mass of  $1700 \text{ g}$  and a volume of  $743 \text{ cm}^3$ . What is the density of the magnesium?

$$m = 1700 \text{ g}$$

$$V = 743 \text{ cm}^3$$

$$D = \frac{1700}{743}$$

$$D = 2.29 \text{ g/cm}^3$$

# Density Physical Science If8767 Answer Key

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