

SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME: Answer Key

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

$$\frac{12.9 \text{ g}}{8 \text{ cm}^3} = \underline{1.61 \text{ g/cm}^3}$$

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

$$\frac{43.5 \text{ g}}{50 \text{ mL}} = \underline{.87 \text{ g/mL}}$$

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

$$2.5 \text{ g/mL} \times 15 \text{ mL} = \underline{37.5 \text{ g}}$$

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

$$\frac{65 \text{ g}}{5.45 \text{ g/mL}} = \underline{11.93 \text{ mL}}$$

- 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?

$$V = 4 \text{ cm} \times 4 \text{ cm} \times 4 \text{ cm}$$

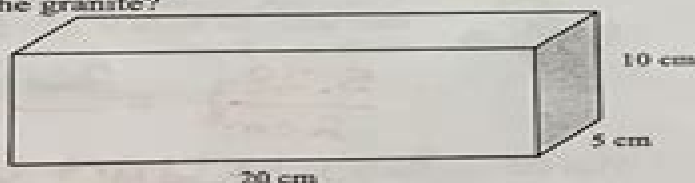
$$V = 64 \text{ cm}^3$$

$$\frac{176 \text{ g}}{64 \text{ cm}^3} = \underline{2.75 \text{ g/cm}^3}$$

- 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?

$$\frac{5.7 \text{ g}}{23.5 \text{ mL}} = \underline{.24 \text{ g/mL}}$$

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



$$V = 10 \text{ cm} \times 5 \text{ cm} \times 20 \text{ cm} = \underline{? \text{ cm}^3} \times 1000$$

$$\frac{2700 \text{ g}}{? \text{ cm}^3} = \underline{2.7 \text{ g/cm}^3}$$

- 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?

$$\frac{78 \text{ g}}{60 \text{ mL}} = \underline{1.3 \text{ g/mL}}$$

- 9) A solid magnesium flare has a mass of 1300 g and a volume of 743 cm^3 . What is the density of the magnesium?

$$\frac{1300 \text{ g}}{743 \text{ cm}^3} = \underline{1.75 \text{ g/cm}^3}$$

Answers For Science Homework

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