

5-5-3-3_Density Worksheet and KEY

Name _____ Date _____

ANSWER KEY**Density Worksheet****Directions:** Solve each problem below. Show your work and circle your answers.**Example:** A student has a sample of aluminum that has a mass of 27 g and a volume of 10 cm³. What is the density of aluminum?

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

$$\text{Density} = 27 \text{ g} / 10 \text{ cm}^3$$

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

1. A loaf of bread has a mass of 500 g and volume of 2500 cm³. What is the density of the bread?

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

$$\text{Density} = 500\text{g} / 2500\text{cm}^3$$

$$\text{Density} = 0.2 \text{ g/cm}^3$$

2. A block of wood has a mass of 6.0 g and a volume of 12.0 cm³. What is the density of the block of wood?

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

$$\text{Density} = 6.0\text{g} / 12.0\text{cm}^3$$

$$\text{Density} = 0.5 \text{ g/cm}^3$$

3. The density of a substance is 4.0 g/cm³. If a sample of the substance has a volume of 25 cm³, then what is its mass? (Hint: Use the equation: mass = density × volume.)

$$\text{Mass} = \text{density} \times \text{volume}$$

$$\text{Mass} = 4.0 \text{ g/cm}^3 \times 25 \text{ cm}^3$$

$$\text{Mass} = 100 \text{ g}$$

4. You have a lead ball with a mass of 420 g. The density of lead is 10.5 g/cm³. What is the volume of the ball? (Hint: Use the equation: volume = mass/density.)

$$\text{Volume} = \text{mass}/\text{density}$$

$$\text{Volume} = 420 \text{ g} / 10.5 \text{ g/cm}^3$$

$$\text{Volume} = 40 \text{ cm}^3$$

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