

Density Word Problems

Use the following formula to answer the problems. You must **SHOW** your work!

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

or, in short form:

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

1. What is the density of carbon dioxide gas if 0.196 g occupies a volume of 100 mL? Answer: _____
2. A block of wood 3.0 cm on each side and has a mass of 27 g. What is the density of this block? Answer: _____
3. An irregularly shaped stone was lowered into a graduated cylinder holding a volume of water equal to 2.0 mL. The height of the water rose to 7.0 mL. If the mass of the stone was 25 g, what was its density? Answer: _____
4. A 10.0 cm³ sample of copper has a mass of 89.6 g. What is the density of copper? Answer: _____
5. Silver has a density of 10.5 g/cm³ and gold has a density of 19.3 g/cm³. Which would have a greater mass, 5 cm³ of silver or 5 cm³ of gold? Answer: _____
6. Five mL of ethanol has a mass of 3.9 g and 5.0 mL of benzene has a mass of 4.4 g. Which liquid is denser? Answer: _____
7. A sample of iron has the dimensions of 2 cm x 3 cm x 2 cm. If the mass of this rectangular-shaped object is 94 g, what is the density of iron? Answer: _____
8. A rectangular solid of unknown density is 5 meters long, 2 meters high, and 4 meters wide. The mass of this solid is 300 grams. Given this information for this homogeneous material, calculate the density. Answer: _____
9. A rock occupies a volume of 20 cm³ and has a mass of 54 g. Find the density of this rock. Answer: _____
10. A rock has a density of 4 g/mL and a mass of 16 g. Find the volume of the rock. Answer: _____

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