

Name: _____

Date: _____

Density, Mass, Volume: Practice Problems

Remember: $D=M/V$, SHOW ALL OF YOUR WORK, and BOX YOUR ANSWERS.

1. A brick has a mass of 100 g and a volume of 25 cm³ . What is the density of the brick?
2. My paperweight has a mass of 50 g and a density of 2.5 g/cm³. How much space does it take up?
3. The density of gold is 19.3 g/cm³. If I have a nugget with a volume of 10 cm³, what is the mass of the cube?

4. a. I have 35 ml of pure water. If the mass of the water is 35 g, what is water's density?

b. I found a beaker full of 55 mL of something that looks like oil. I use a triple beam balance and find that the mass of the oil is 49 g. What is the density of the oil?

c. Will the oil float or sink in the water? Explain your answer using the answers from questions 4 a and b.