

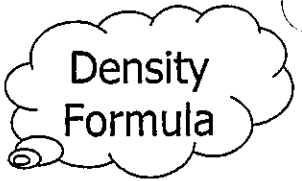
Name _____
Period _____

Date _____
Number _____

Unit 2-4- Density Practice

Directions: Solve the following problems using the density formula. Be sure to show all of your work!

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



1. Volume = 5 cm³ Mass = 25 g

2. Volume = 4 cm³ Mass = 208 g

3. Volume = 5 cm³ Mass = 60 g

4. A lump of gold has a volume of 10 cm³ and a mass of 193 g. Another lump of gold has the same volume and a mass of 960 g. What is the density of the second lump?

5. A carpenter saws a wooden beam into two pieces. One piece has a mass of 600 g and a volume of 100 cm³. What is the density of the wooden piece?

6. A 20 mL bottle is filled with oil. The oil has a mass of 180 g. What is the density of the oil?

Name _____

Calculating Density

DIRECTIONS: Using the formula, $D=m/v$, calculate the following problems.

Remember to plug and chug (plug in the values that are given and chug, or calculate for the values you are solving for)! ☺

Always write the formula when solving a density problem.

1. The mass of an object is 64g, the volume is 8.2cm^3 , find the density.
2. The volume of an object is 870cc and the mass of the object is 450g. What is the density of the object?
3. The volume of an object is 100cm^3 . The mass is 4g. Find the density of the object.
4. The mass of a rock is 12g and the volume is 20cc. Find the density of the rock.
5. The volume of a marble is 13cc and the mass is 56g. What is the density of the marble?
6. The mass of a milk container is 105g. The volume is 25 cc. What is the density of the milk container?