DENSITY PRACTICE PROBLEMS

A. Rewrite the problem in your notes.
B. Solve the problem
C. Circle you answer

1. A platinum bar measures 5.0 cm long, 4.0 cm wide, and 1.5 cm thick. It has a mass of 700.0 grams.

a. Calculate the volume of the platinum bar.

b. Calculate the density of the platinum bar.

2. A lead cylinder has a mass of 540 grams and a density of 2.70 g/ml. Calculate the volume of the lead cylinder.

3. A cork has a mass of 3 grams and a volume of 16 cm3. Calculate the density.

4. A thin glass bottle holds 25 ml of liquid and has a mass of 19 grams. Calculate the density.

5. A bar of soap is 12 cm tall, 6 cm wide, and 10 cm long. It has a mass of 415 grams. What is the density of the bar of soap.

6. A sheet of metal is 2 mm wide, 10 cm tall, and 15 cm long. It was 4 grams. What is the density?

7. A pencil has a density of .875 g/ml. It has a mass of 3.5 grams. What is the volume?

8. Find the mass of a 50.0 ml quantity of water if the density of water is 1.00 g/ml.

9. If the density of 45.0 cm^3 block of wood is 0.65 g/ml calculate the wood's mass.