

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

**Practice Problems**

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 cm<sup>3</sup>. 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<sup>3</sup> block of wood is 0.65 g/ml calculate the wood's mass.
10. You have a rock with a volume of 15cm<sup>3</sup> and a mass of 45 g. What is its density?
11. You have a different rock with a volume of 30cm<sup>3</sup> and a mass of 60g. What is its density?
12. In numbers 10 and 11 which rock is heavier? Which is lighter?
13. In numbers 10 and 11 which rock is denser? Which is less dense?
14. You decide you want to carry a boulder home from the beach. It is 30 centimeters on each side, and so has a volume of 27,000 cm<sup>3</sup>. It is made of granite, which has a typical density of 2.8 g/cm<sup>3</sup>. How much will this boulder weigh?
15. Rocks are sometimes used along coasts to prevent erosion. If a rock needs to weigh 2,000 kilograms (about 2 tons) in order not to be shifted by waves, how big (what volume) does it need to be? You are using basalt, which has a typical density of 3200 kg/m<sup>3</sup>.
16. A golden-colored cube is handed to you. The person wants you to buy it for \$100, saying that is a gold nugget. You pull out your old geology text and look up gold in the mineral table, and read that its density is 19.3 g/cm<sup>3</sup>. You measure the cube and find that it is 2 cm on each side, and weighs 40 g. What is its density? Is it gold? Should you buy it?

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