

# Working with Density Measurements

**Goal** • Find the identities of the mystery substances in the questions below.

## What to Do

Calculate the density of each substance. Then find the substance in the table in Think About It 7-6 on page 262 of *BC Science 8*.

1. A substance has a mass of 144 g and a volume of  $600 \text{ cm}^3$ . What substance is it?
2. A substance has a mass of 6923 g and a volume of  $880 \text{ cm}^3$ . What substance is it?
3. A substance has a mass of 725 g and a volume of 575 mL. What substance is it?
4. A substance has a mass of 1220 g and a volume of 90 mL. What substance is it?
5. A substance has a mass of 1771 g and a volume of  $820 \text{ cm}^3$ . What substance is it?
6. A substance has a mass of 45 g and a volume of  $9000 \text{ cm}^3$ . What substance is it?
7. A substance has a mass of 250 g and a volume of  $22 \text{ cm}^3$ . What substance is it?
8. A substance has a mass of 455 g and a volume of  $650 \text{ cm}^3$ . What substance is it?
9. A substance has a mass of 87.55 kg and a volume of  $85\,000 \text{ cm}^3$ . What substance is it?
10. A substance has a mass of 3950 g and a volume of 5000 mL. What substance is it?