Answer these questions after you have read page 265 of BC Science 8.

 1. A student measures the mass of an 8 cm3 block of brown sugar to be 12.9 g. What is the density of the brown sugar?

 2. A chef fills a 50 mL container with 43.5 g of cooking oil. What is the density of   
the oil?

 3. A machine shop worker records the mass of an aluminum cube as 176 g. If one side of the cube measures 4 cm, what is the density of the aluminum?

 4. Based on the density values on page 262 of BC Science 8, list how the following liquids would layer in a beaker from top to bottom: glycerol, ethyl alcohol, mercury, seawater, machine oil, water.

 5. A teacher performing a demonstration finds that a piece of cork displaces 23.5 mL of water. The piece of cork has a mass of 5.7 g. What is the density of the cork?

 6. A carver begins work on a block of granite that measures 20 cm by 10 cm by 5 cm. If the block of granite has a mass of 2700 g, what is the density of the granite?

 7. A piece of PVC plumbing pipe displaces 60 mL when placed into a container of water.   
If the pipe has a mass of 78 g, what is the density of PVC?

 8. A solid magnesium flare has a mass of 1300 g and a volume of 743 cm3. What is the density of the magnesium?

 9. An ice cube has a volume of 12 cm3, and a mass of 11 g. What is the density of the ice?

10. Gold is one of the densest substances on Earth. A gold bar 20 cm by 5 cm by 5 cm has a mass of 9.7 kg. What is the density of gold? Express your answer in g/cm3.