Section 7.2

Use textbook pages 264-265.

Density detective

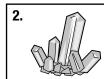
Use your detective skills to find the identity of the mystery objects. First calculate the density of the object. Then use the Table of Densities to decide what the object is made of.

Table of Densities

Solids	Density (g/cm³)	Solids	Density (g/cm³)
marble	2.56	copper	8.92
quartz	2.64	gold	19.32
diamond	3.52	platinum	21.4



While digging in the backyard, you find an old coin. Its mass is 26.76 g and its volume is 3 cm³. What is the density of the coin?

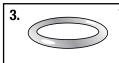


You think you have found a diamond. Its mass is 5.28 g, and its volume is 2 cm³. What is the density of the object?

Calculation:

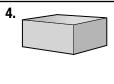
Calculation:

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You find a ring with a mass of 107 g. You fill a graduated cylinder up with 10 mL of water and put the ring into the cylinder. The water rises up to the 15 mL mark. What is the density of the ring?

What did you find? _____



There is a block on your desk that acts as a paperweight. Its measurements are: 3 cm by 4 cm by 6 cm. The block has a mass of 184.32 g. What is the density of the block?

Calculation:

Calculation:

What is the ring made of?

What is the block made of?