

Activity 7: Calculating Density

Name

Date

Class

Key Question

Learning the Ideas

Calculating Density

Use the information from the Table of Densities.

1. A large block of gray material has a mass of 270 g and a volume of 100 cm^3 .
What is its density?

What is the object made of? _____

Calculating Mass

2. What is the mass of the alcohol in a 500-mL bottle of alcohol?

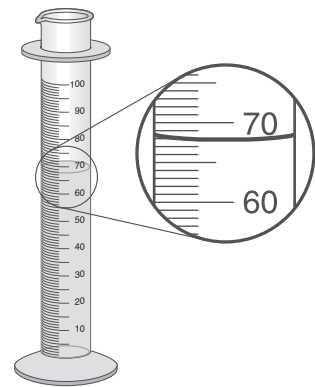
Calculating Volume

3. What is the volume of a 120-g piece of aluminum?

Calculating Density of a Liquid from Measurements of Mass and Volume

Use the diagrams to answer Questions 4 through 12.

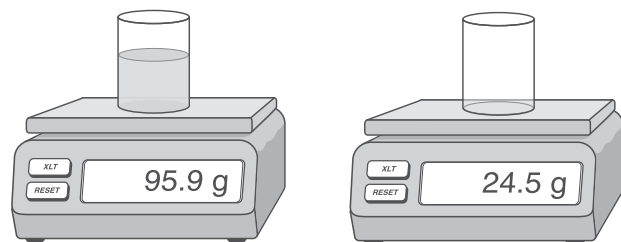
4. What is the volume of the liquid?



5. What is the mass of the liquid?

6. What is the density of the liquid?

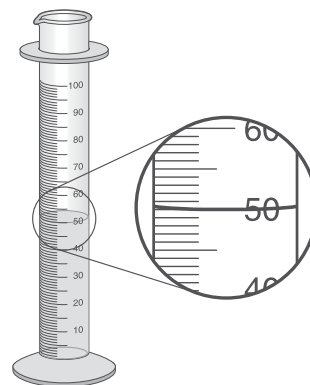
7. What might the liquid actually be?



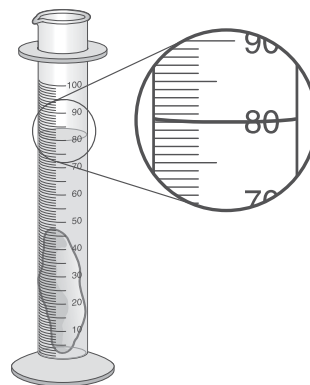
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Calculating Density of an Irregular Solid

8. What is the volume of the water?

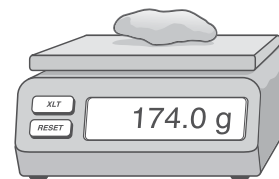


9. What is the volume of the water and the solid?



10. What is the volume of the solid?

11. What is the density of the object?



12. What material might the object be made of?

What We Have Learned

The key question for this activity is:



How can you determine the density of an object?

Write the answer to the key question.
