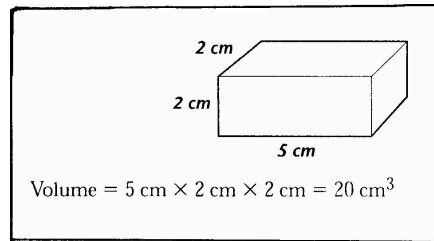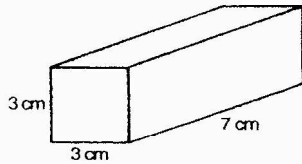# Science Skills 6
Measuring Volume

Volume is the measurement of the inside of a three-dimensional figure or object. You can find the volume of a regular solid by multiplying length X width X height. Volume is written in cubic units, for example: cm^3 or m^3.
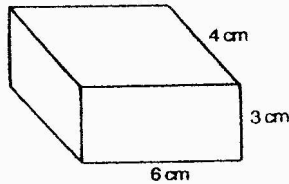
Look at this example:

2 cm

2 cm

5 cm

Volume = 5 cm $\times$ 2 cm $\times$ 2 cm = 20 cm^3

Directions: Find the volume of each prism below in cm^3. Don't forget to write the unit for each answer.

1.

3 cm

3 cm

7 cm

_____

2.

4 cm

3 cm

6 cm

_____

3.

1 cm

5 cm

8 cm

_____

4.

6 cm

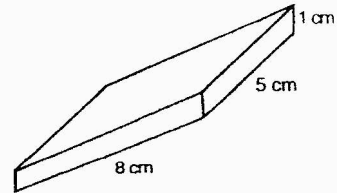6 cm

2 cm

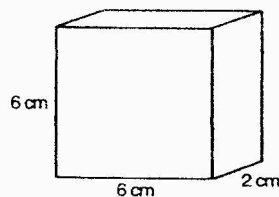_____
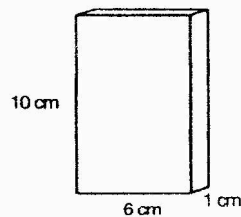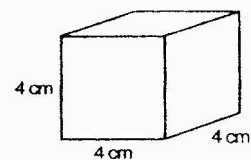
5.

10 cm

6 cm

1 cm

_____

6.

4 cm

4 cm

4 cm

_____

Sometimes we have to find the volume of a solid that is not regularly shaped, like a rock. We can use water and a graduated cylinder to find the volume of any irregularly shaped solid. Volume in this case is shown in mL.

7. What is the original volume of
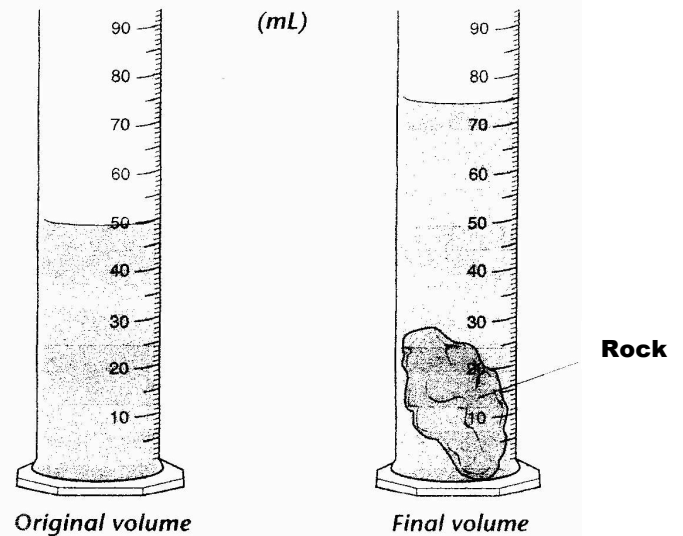   water in the first cylinder? _____

8. What is the final volume of
    water in the second cylinder? _____

9. What happened to the water
    in the second graduated cylinder?
    _____

10. Why did the water level go up?
    _____

11. Subtract the final volume from the
    original volume.
    _____

12. What is the volume of the rock?
    _____

13. What is the original volume of water?
    _____

14. What is the final volume of water?
    _____

15. What is the volume of the rock?
    _____