## Volume

The volume of a three-dimensional object is the amount of space the object takes up, or the amount the object could hold (capacity).

Example 1 Find the volume of the following sphere.


Example 2 Convert the volume you found in Example 1 to cubic feet

The volume of prisms and cylinders can be found using the following strategy:

## Volume $=$ Area of the "base" $\times$ Height/Depth

## Example 2 Find the volume of each figure.

a.

b.


Example 3 A hockey puck has a diameter of 3 in . and a height of 1 in . A cylindrical container holds a stack of four pucks. What is the minimum volume of this container, to the nearest cubic centimetre?

