Science Mastery

Volume Activity: Student Sheet

Aim: To investigate the volume of an irregular object.

Apparatus: Displacement can, water, irregular object, measuring cylinder.

Hypothesis: I think…

Labelled Diagram:

Method:

1. Place a displacement can on top of a small step (use a book or other object to place it on), so that the **spout** is above a beaker.
2. Fill the displacement can with water and wait until the water stops dripping out. Replace the beaker of water with a measuring cylinder.
3. Very carefully lower the object to be measured into the displacement can, making sure it is fully **submerged**.
4. Collect all of the water that flows out of the displacement can in the measuring cylinder.
5. Note the **volume** of water collected in the measuring cylinder.

Results:

Trial 1: Volume of water collected = _____ cm^3

Trial 2: Volume of water collected = _____ cm^3

Trial 3: Volume of water collected = _____ cm^3

Average volume of water collected = _____ cm^3

Follow up questions:

What was the volume of your object in dm^3?

_____

Define the words in **bold** in the method.

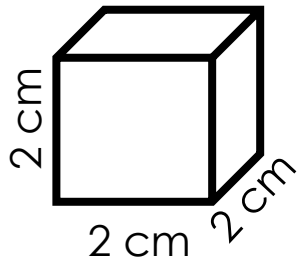
_____

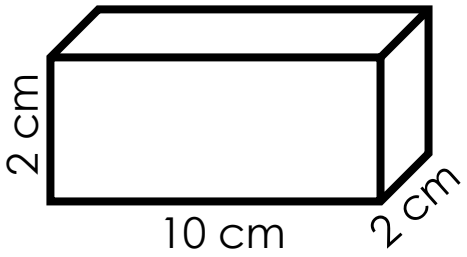
_____

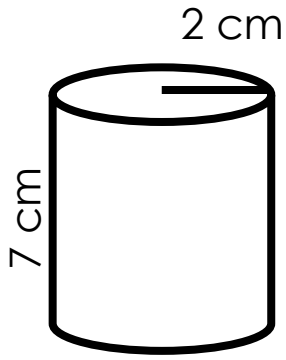
_____

_____

Calculate the volume of each of the regular shapes below.







Convert the volumes you have calculated from cm^3 to dm^3.