Measuring Density

Density is the proper name for **"HEAVINESS FOR ITS SIZE"**

You calculate density like this:

$$\text{Density} = \text{Mass (g)} / \text{Volume (cm}^3\text{)}$$

Density is measured in grams per cubic centimetre. The short way of writing this is g/cm^3

MASS

- Measure mass using a top pan balance.

VOLUME

Measure volume be measuring the three sides of the block and doing this sum:

$$\text{Volume (cm}^3\text{)} = \text{Length(cm)} \times \text{Width(cm)} \times \text{height(cm)}$$

VOLUME: lump of marble

- Measure the volume by putting marble in a measuring cylinder with 50cm3 of water and the difference is the volume.

DENSITY

When you calculate the density DON'T write down all the numbers on the calculator. Your measurements are less accurate than that. Round off your answer to two figures.

Marble Density?