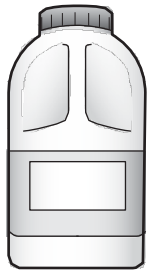


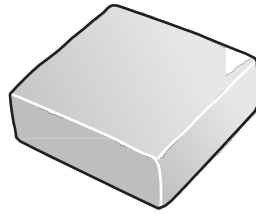
GCSE Physics B (Twenty First Century Science)
J259/03 Depth in physics (Higher Tier)

Question Set 33

1 Ben wants to compare the density of three different foods.



milk



cheese



set yoghurt

Fig. 7.1

(a) Describe how to accurately determine the density of milk.

You should include in your answer how accurate measurements can be obtained from the apparatus used.

[3]

(b) Fig. 7.2 shows the dimensions of a block of cheese.

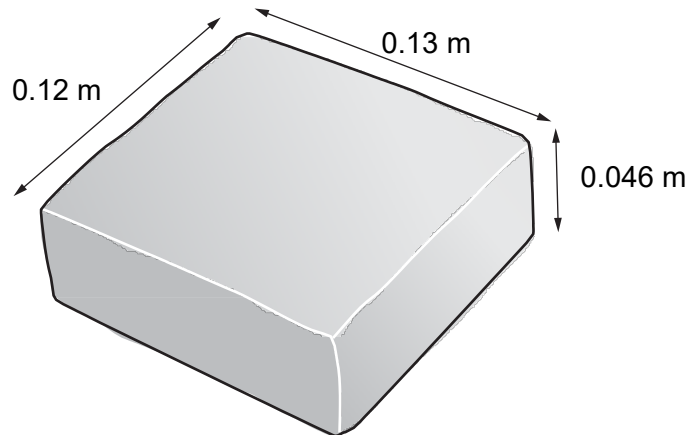


Fig. 7.2

Calculate the volume of the block of cheese, in m^3 .

Give your answer in **standard form** and to **3** significant figures.

Volume = m^3 [2]

(c) The yoghurt in Fig. 7.1 is not runny, so it can't be poured like milk.

It is also too soft to hold its shape like a block of cheese.

Suggest **one** method to measure the volume of a sample of the yoghurt.

[2]

Total Marks for Question Set 33: 7

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