

## **GCSE Physics B (Twenty First Century Science)**

J259/01 Breadth in Physics (Foundation Tier)

## **Question Set 28**

Multiple Choice Questions



1





milk butter

cheese

- (a) To calculate density, Jack needs to measure the mass and volume of a sample of each food.
  - (i) Which measuring instrument should Jack use to measure mass? Tick (✓) **one** box.

Balance

Measuring cylinder

Metre ruler

Thermometer

[1]

(ii) Which measuring instrument should Jack use to measure the volume of milk? Tick (✓) **one** box.

Balance

Measuring cylinder

Metre ruler

Thermometer

[1]

**(b)** Complete the sentences to describe how to measure the volume of the butter. Use words from the list.

You can use each word once, more than once, or not at all.

add measuring cylinder multiply balance divide ruler

Measure the length, width and height of the butter using a ruler

To find the volume, ...... multiply..... these three numbers together. [2]

(c) Jack makes these measurements for the block of butter:

mass =  $2.22 \,\text{kg}$  volume =  $0.0024 \,\text{m}^3$ 

Calculate the density of the butter.

Use the equation: density = mass ÷ volume

(d) The cheese is an irregular solid shape.

Suggest how to measure the volume of the cheese.

Use a eureka can and measure volume of water displaced

## **Total Marks for Question Set 28: 8**

[2]



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