

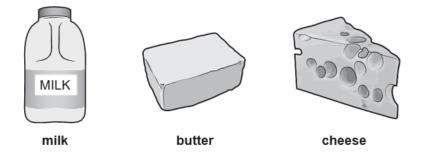
GCSE Physics B (Twenty First Century Science)

J259/01 Breadth in Physics (Foundation Tier)

Question Set 28

Multiple Choice Questions

Jack wants to compare the density of three different foods.



- (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]

Complete the sentences to describe how to measure the volume of the butter. (b) 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 To find the volume, these three numbers together. [2] Jack makes these measurements for the block of butter: (C) mass = 2.22 kg volume = 0.0024 m^3 Calculate the density of the butter. Use the equation: density = mass ÷ volume

Density = kg/m^3 [2]

(d) The cheese is an irregular solid shape.

Suggest how to measure the volume of the cheese.

Total Marks for Question Set 28: 8



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