

Particle model of matter**Past Paper Answers AQA Physics GCSE -Higher**

Question	Answers	Extra information	Mark
1	balance / scales		1
2	density = $\frac{\text{mass}}{\text{volume}}$ or $\rho = \frac{m}{V}$		1
3	$0.68 = \frac{85}{V}$ $V = \frac{85}{0.68}$ $V = 125 \text{ (cm}^3\text{)}$		1 1 1
4	repeat readings (of volume) need taking (of each fruit) to show that the readings are close together	allow 'the same' for 'close together'	1

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5	0(.0) to 12(.0)	allow 2(.0) to 12(.0) (N)	1
6	mass of gas (in the syringe) or temperature (of the gas)		1
7	constant = 60×45		1
	or constant = 2700		
	$2700 = p \times 40$		1
	$p = \frac{2700}{40}$		1
	$p = 67.5$ (kPa)	allow 68 (kPa)	1
8	there is more time between collisions of particles and the walls of the syringe or there are less frequent collisions between the particles and the walls of the syringe		1
	(causing) a lower (average) force on the walls of the syringe		1
	(and) pressure is the total force per unit area		1