

AQA A-level Physics Paper 2 Unofficial Mark Scheme

6th June 2025

Unofficial Mark Schemes

Num	Question	Answer	Discussion	Mark
1)	Topic: Thermal physics			Total: 9
1.1)	Show that there is 40 mols T= 20°C Pressure=105 kPa	$PV = nRT$ $V = 1 \text{ m}^3$ $P = 105 \text{ kPa}$ $n = ?$ $105000 = (8.314)(20 + 273) \cdot n$ $n = 43 \text{ mols}$ $n \approx 40 \text{ mols}$	Nice start before hell began +3 U know it was bad when this was the first question compared to paper 1	1
1.2)	Density 1.25 kgm ⁻³ . Calculate the root mean square	484m/s using 43mols 503m/s-1 using 43.1 mol	Is the density not 1.45? Nope 1.25 I said Nm/V is equal to the density so did $3P/density=crms^2$. $crms=501\text{m/s}$	3
1.3)	Temperature change when Crms is doubled.	$(Crms)^2 \propto T$ $3T = 3^2(270+23) = 879\text{K}$ $T \propto Crms^2$	Ratio change in T = $\sqrt{2}$ Hence change in T = $(\sqrt{2}-1)T = 122.6\text{ K}$ Above is wrong, for c to double T will quadruple.	2

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Ying Liu

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