

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

$$\text{Force} = \frac{\text{Change in momentum}}{\text{time}}$$

Substituting it into the Pressure equation:

$$\text{Pressure} = \frac{\frac{\text{Change in momentum}}{\text{time}}}{\text{Area}}$$

$$\text{Pressure} = \frac{\text{Change in momentum}}{\text{Area} \times \text{Time}}$$

$$\text{Pressure} = \frac{\text{Total mass of all alpha particles} \times (\text{initial velocity} + \text{final velocity})}{\text{Area} \times \text{time}}$$

Now each alpha particle is 6.6×10^{-27} Kg and there is 5×10^4 particles

$$\text{So total mass} = 6.6 \times 10^{-27} \times 5 \times 10^4$$

$$\text{Area} = 1 \text{ cm}^2 = 10^{-4} \text{ m}^2$$

$$\text{initial velocity} = 1.5 \times 10^7 \text{ ms}^{-1}$$

$$\text{time} = 1 \text{ second}$$

$$\text{Pressure} = \frac{6.6 \times 10^{-27} \times 5 \times 10^4 (1.5 \times 10^7 + 0)}{10^{-4} \times 1}$$

$$\text{Pressure} = 4.95 \times 10^{-11} \approx 5 \times 10^{-11}$$

June 2013 Physics 9702 Paper 11 Question

J Elliott



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