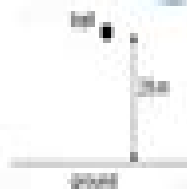


Q1
Paper 2
TZ2 SL
May 2024

1. A ball of mass 2.5 kg is released from rest from a height of 28 m above horizontal ground.



- (a) Show that in the absence of air resistance the ball impacts the ground with a speed of about 23 m s^{-1} .

$$v^2 - u^2 = 2as \quad u = 0$$

$$v^2 = 2gs \quad v = \sqrt{2gs} = \sqrt{2 \times 9.8 \times 28} = 23.4 \frac{\text{m}}{\text{s}}$$

- (b) An air resistance force F acts on the ball. F can be modeled by $F = kv^2$ where v is the speed and k is a constant.

- (i) Determine the unit of k in terms of fundamental units.

$$F = N = \frac{\text{kg m}}{\text{s}^2}$$

$$v = \frac{\text{m}}{\text{s}} \Rightarrow v^2 = \frac{\text{m}^2}{\text{s}^2}$$

$$k = \frac{[F]}{[v^2]} = \frac{\frac{\text{kg m}}{\text{s}^2}}{\frac{\text{m}^2}{\text{s}^2}} = \frac{\text{kg}}{\text{m}} = \text{unit of } k$$

- (ii) Describe how the ball reaches terminal speed.

- 1) \uparrow Speed $\rightarrow \uparrow$ Air resistance
- 2) Air resistance = weight
- 3) Net force = zero $\rightarrow a = 0, v = \text{constant}$

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