

# Terminal Velocity

Determine the acceleration of this 85 kg skydiver at points A-D. (*Hint:  $F=ma$* )

Diagram A



$$F_{\text{grav}} = 833 \text{ N}$$

$$9.8 \text{ m/s}^2$$

Diagram B

$$F_{\text{air}} = 350 \text{ N}$$



$$F_{\text{grav}} = 833 \text{ N}$$

$$5.68 \text{ m/s}^2$$

Diagram C

$$F_{\text{air}} = 700 \text{ N}$$

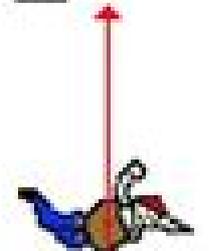


$$F_{\text{grav}} = 833 \text{ N}$$

$$1.56 \text{ m/s}^2$$

Diagram D

$$F_{\text{air}} = 833 \text{ N}$$



$$F_{\text{grav}} = 833 \text{ N}$$

$$0 \text{ m/s}^2$$

# Terminal Velocity

**YCT Expert Team**



## Terminal Velocity:

*Calculations for A-level Physics* T. L. Lowe, J. F. Rounce, 2002 This guide has been revised to match the new specifications It gives thorough expert explanations worked examples and plenty of exam practice in physics calculations It can be used as a course support book as well as exam practice

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