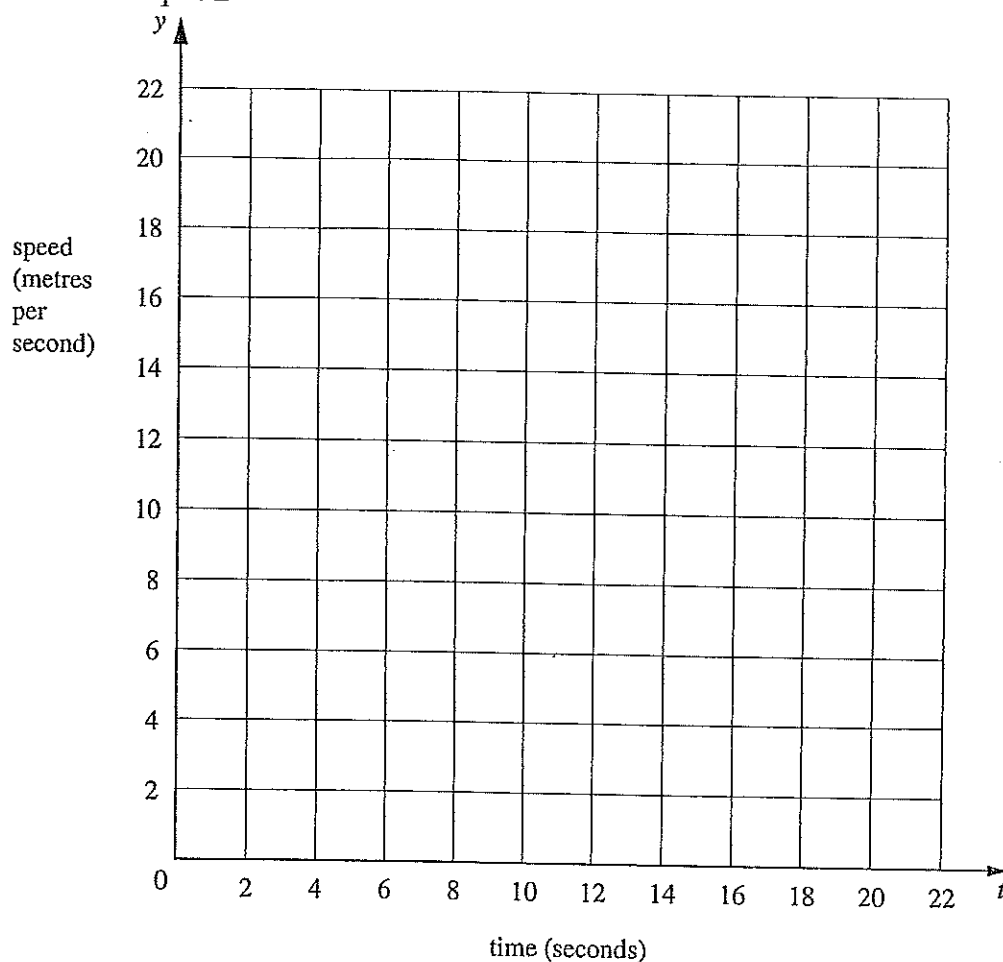


# IGCSE Speed/Time Paper 2/1

Oct 01 Paper 2

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A car starts from rest with a constant acceleration of  $5 \text{ m/s}^2$  for 4 seconds.  
 Next it decelerates at  $2 \text{ m/s}^2$  for 6 seconds.  
 Then it decelerates at  $d \text{ m/s}^2$  until it comes to rest again 18 seconds from the start.

- (a) Draw the speed-time graph for the car on the grid above. [3]  
 (b) Find the value of  $d$ .

Answer (b)  $d = \dots\dots\dots$  [1]

- (c) Calculate the distance which the car travels while it is accelerating.

Answer (c)  $\dots\dots\dots \text{ m}$  [1]