

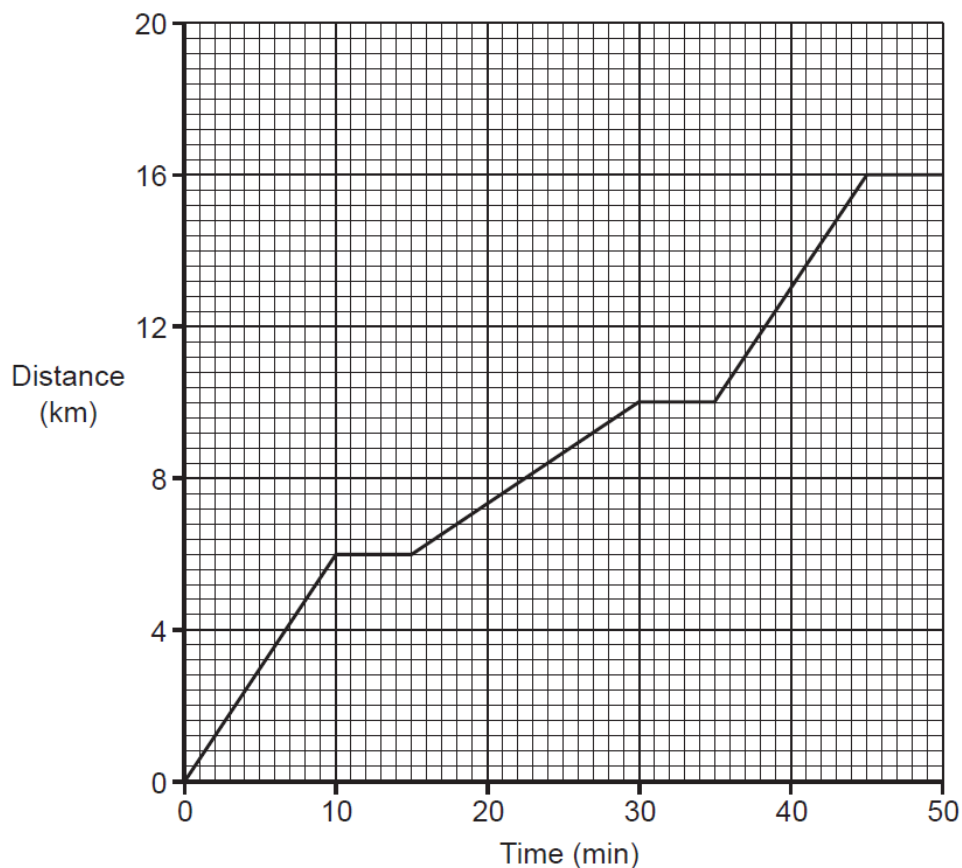
GCSE Physics B (Twenty First Century Science)
J259/02 Depth in physics (Foundation Tier)

Question Set 28

1

Layla took a bus journey to a town 16 km away.

The distance–time graph shows her bus journey.



(a) (i) How many times during the journey was the bus stationary? **3** [1]

(ii) How does the graph show that the bus was slower between 15–30 minutes than 35–45 minutes? *Less steep gradient.* [1]

(b) Calculate the average speed of the bus between 35 and 45 minutes.

Use the equation: distance = speed × time

Show your working on the graph.

$$\text{Average speed} = \frac{16 - 10}{45 - 35} = \frac{6}{10} = 0.6 \text{ km/min}$$

Average speed = 0.6 km/min [2]

Total Marks for Question Set 28: 4

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