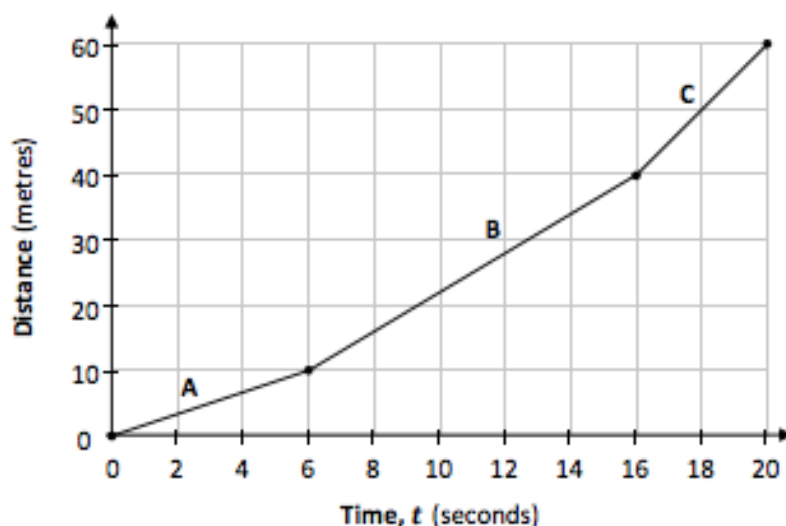


Question 9 **2017 OL P1 Q9**

(Suggested maximum time: 15 minutes)

Martin took part in a 60 metre race.

The graph below shows the distance in metres travelled by Martin after t seconds during the race. The graph is in three sections, labelled A, B, and C.



(a) (i) How many seconds did it take Martin to finish the race?

Answer =

(ii) What distance had Martin travelled after 16 seconds?

Answer =

m

(b) (i) Which was Martin's **slowest** section of the race?

Martin's slowest section:
(Tick (✓) **one** box only)

A

B

C

(ii) Find Martin's **speed** during his slowest section of the race, in metres per second.

This question continues on the next page.

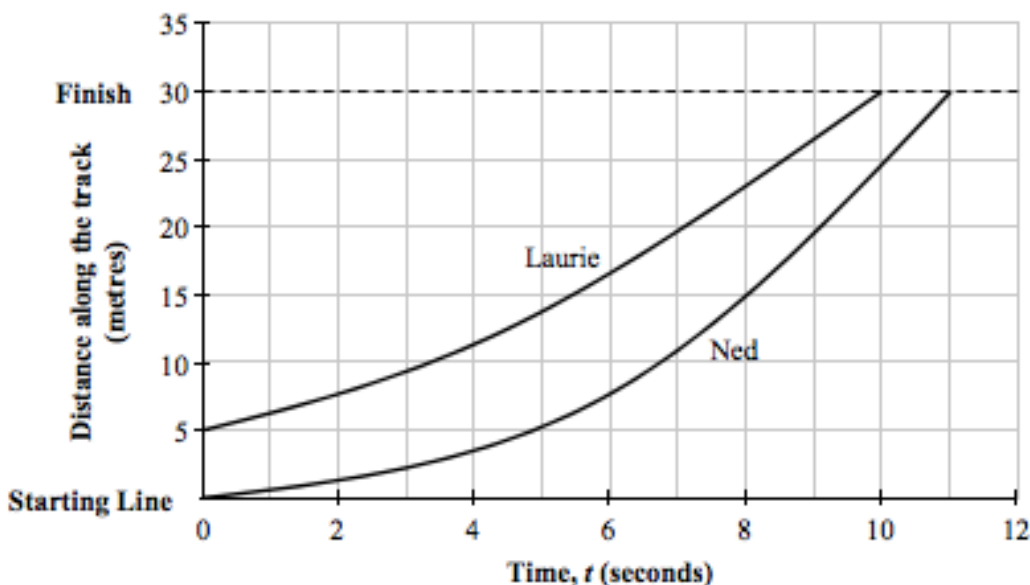
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2016 OL P1 Q9

Question 9

(Suggested maximum time: 10 minutes)

Ned and Laurie had a race. Laurie was given a head start, so she ran a shorter distance than Ned. The graphs below show the distance along the track, in metres, that each of them was from the starting line after t seconds of the race.

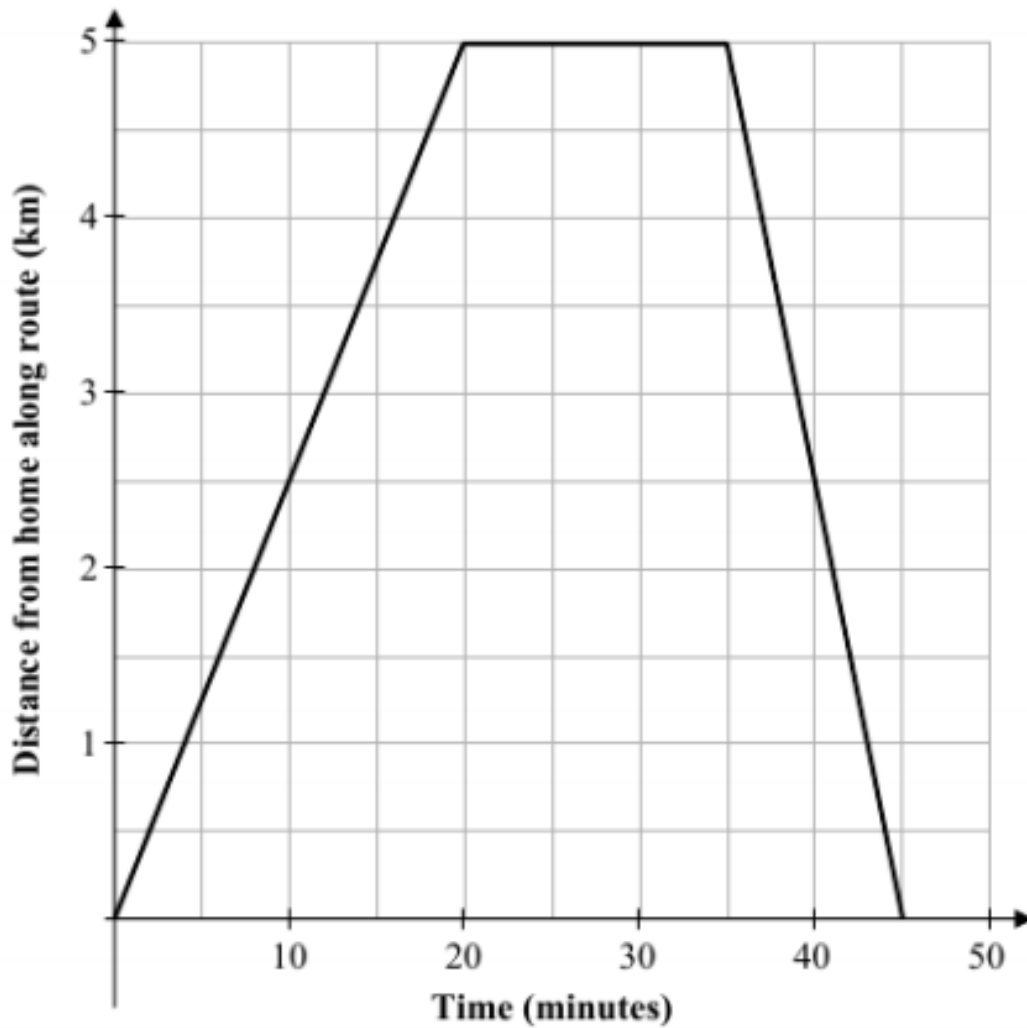


- (a) What distance did Ned run during the race? Ned's distance = m
- (b) What distance did Laurie run during the race? Laurie's distance = m
- (c) How many seconds did it take Laurie to finish the race? Answer = seconds
- (d) Work out Laurie's mean speed during the race, in metres per second.

2014 sample paper

Sample paper

Olive cycled to the shop to get some milk for her tea. She cycled along a particular route, and returned by the same route. The graph below shows the different stages of her journey.



(i) How long did Olive stay in the shop?

(ii) how far from her home is the shop?

(iii) Compare the speed of her trip to the shop with her speed on the way home.

(iv) Write a paragraph to describe her journey