

Travel Graphs

Name:	Class:	Date:
Mark		17 %

1) A school bus drove to Brean Beach for a school trip. The bus travelled from London at a steady speed of 60 kilometres per hour (km/h). The distance-time graph below shows the journey.

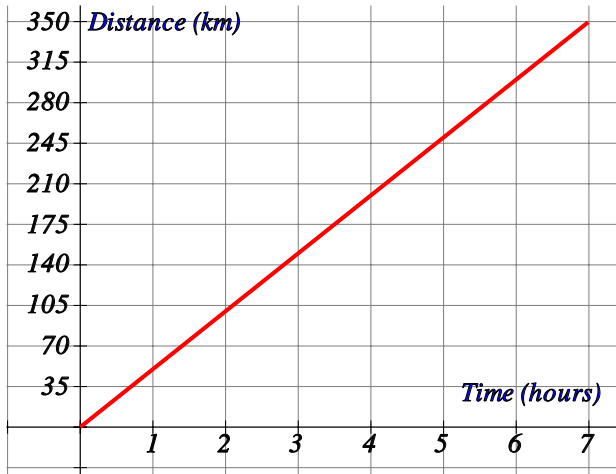


Find

- a) the distance to Brean Beach.
- b) the time taken to get there.
- c) the distance travelled in 2 hours.

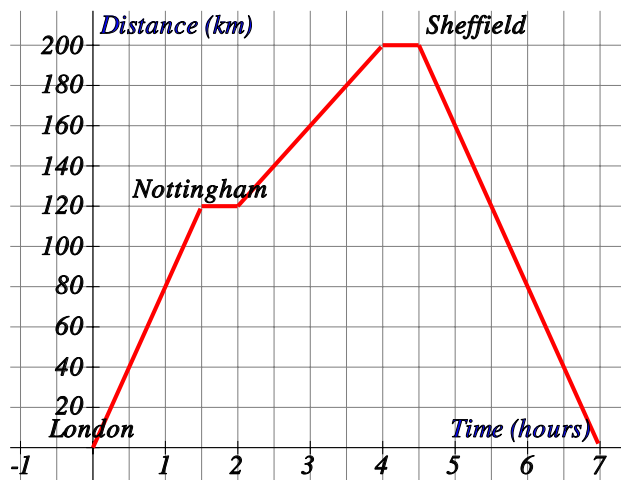
[1]

2) A school bus drove to Robin Hood Beach for a school trip. The distance-time graph below shows the journey. Work out the average speed of the bus for the whole journey.



[1]

3) The distance-time graph below shows the journey a business man made from London to Sheffield via Nottingham. (Leave answers to nearest whole number where necessary).

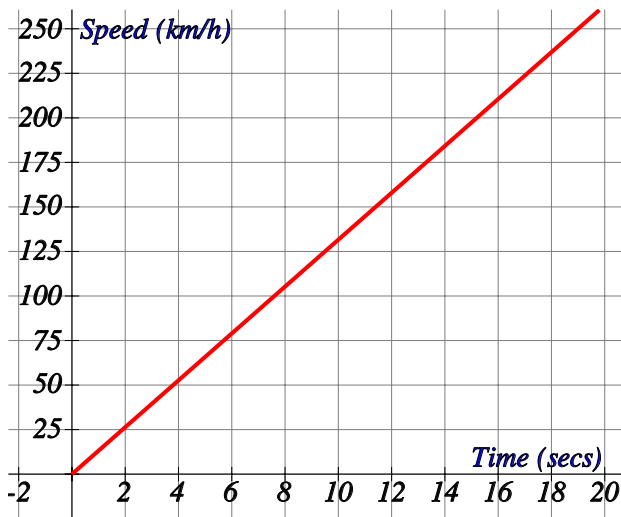


Find

- the distance to Nottingham.
- the time he spent in Nottingham.
- at what speed he travelled from Nottingham to Sheffield.
- his average speed over the whole journey.

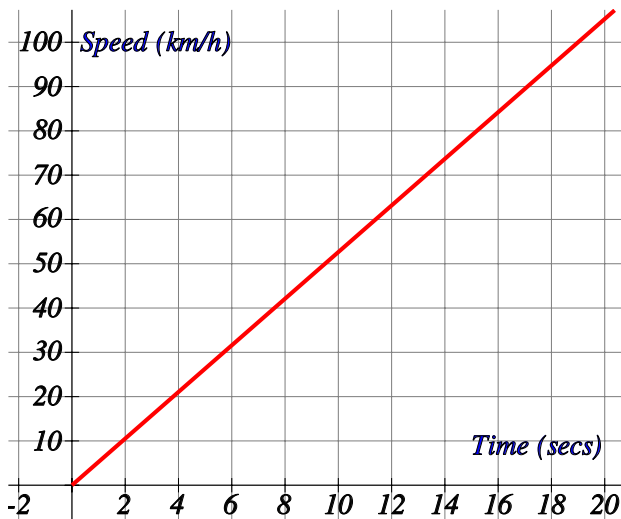
[1]

4) The speed-time graph below shows a Aston Martin DB9 accelerating. How fast is the car after 4 secs?



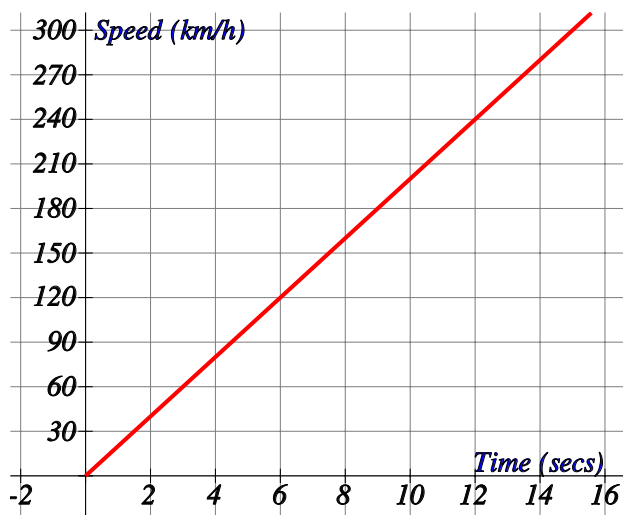
[1]

5) The speed-time graph below shows a old Mini accelerating. How long does it take the car to get to 50 km/h?



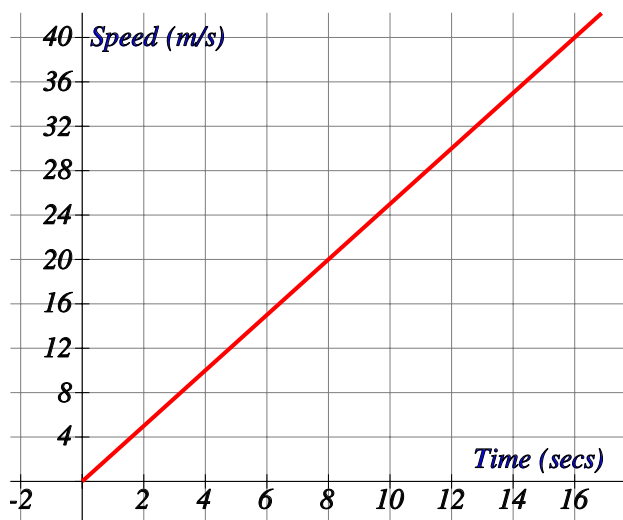
[1]

6) The speed-time graph below shows a Ferrari 288 GTO accelerating. How long does it take the car to get to 35 km/h?



[1]

7) The speed-time graph below shows the acceleration of a Fiat Uno. Find an estimate for the acceleration leaving your answer to 1 decimal place.



[1]

Solutions for the assessment Travel Graphs

1) a) 200 km b) 3.3 hours (3.2 - 3.4)
c) 120 km (119 - 121)

2) 50 km/h (49 - 51)

3) a) 120 km b) 0.5 hours
c) 40 km/h d) 57 km/h

4) 53 km/h (51 - 55)

5) 9.5 secs (9 - 10)

6) 1.8 secs (1.3 - 2.3)

7) 2.5 m/s^2 (2.4 - 2.6)