Travel Graphs

Name: Class: Date:

Mark	/ 7	%

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.
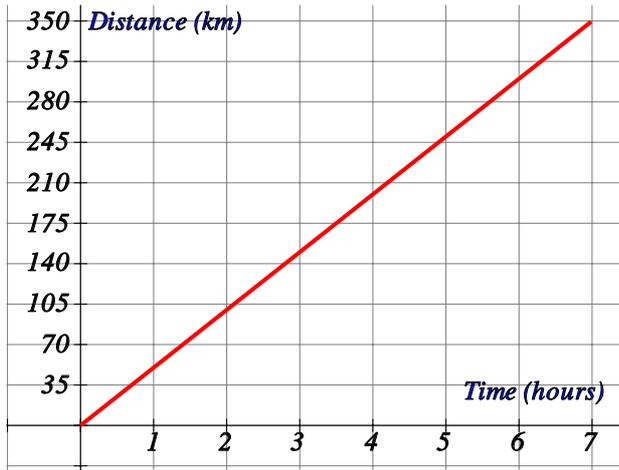
[1]

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).
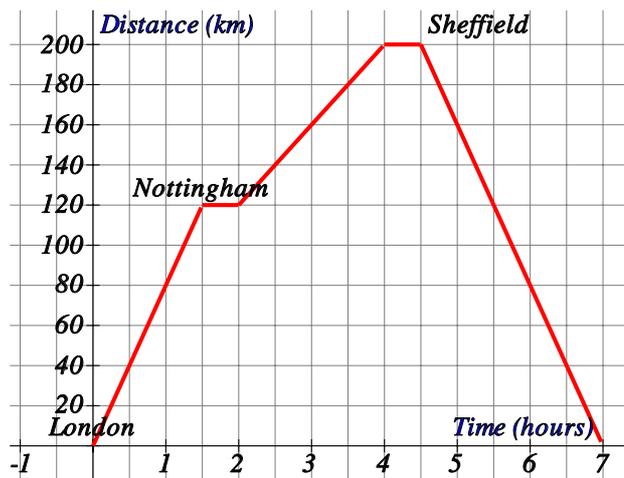
Find

  a) the distance to Nottingham.

  b) the time he spent in Nottingham.

  c) at what speed he travelled from Nottingham to Sheffield.

  d) 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?
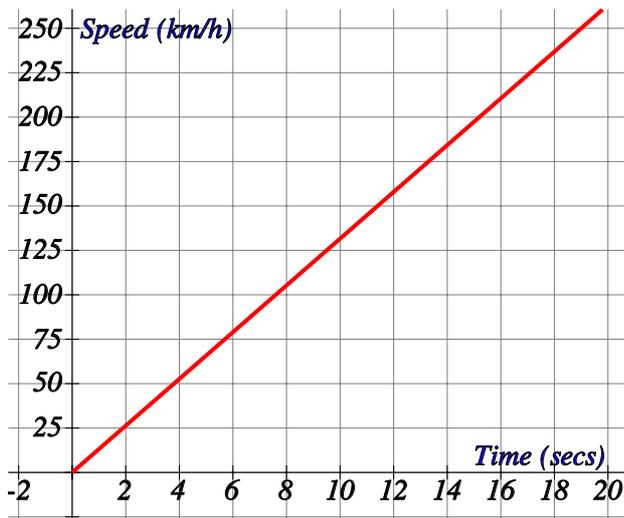
[1]

5) The speed-time graph below shows a old Mini accelerating. How long does it take the car to get to 50 km/h?
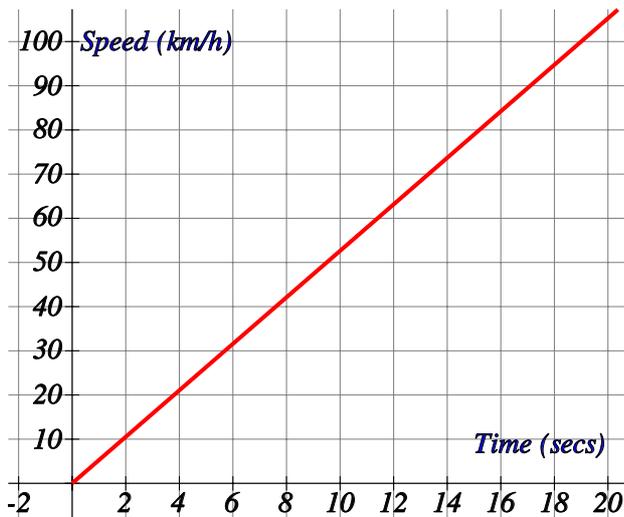
[1]

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?
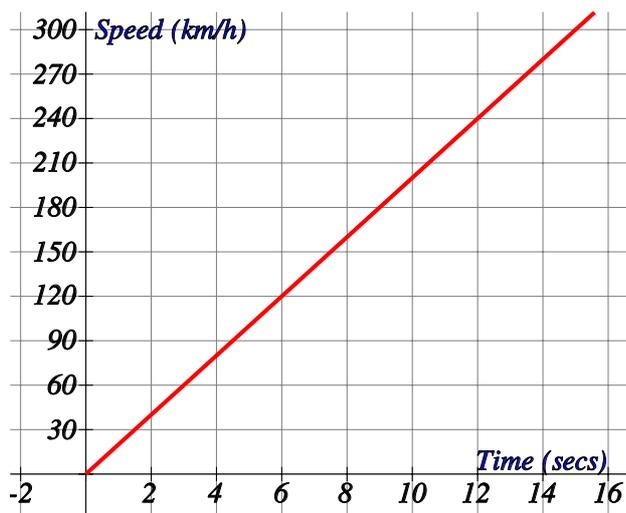
[1]

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.
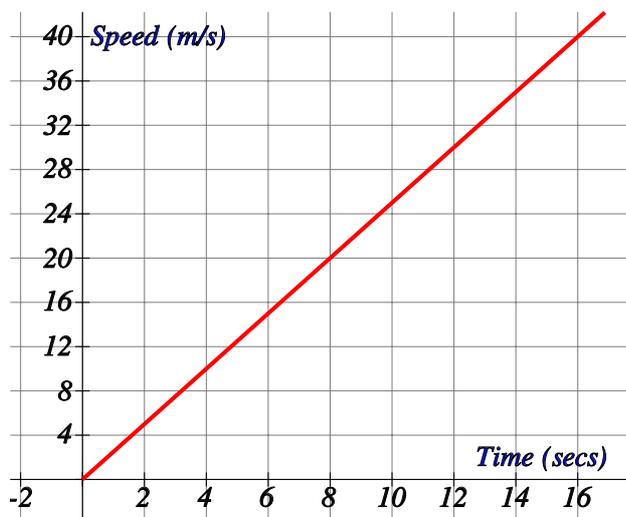
[1]

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)