



Name: _____ **Date:** _____ **Score:** _____ / 71

- 1** A cyclist rides at an average speed of 24 km/h for 2.5 hours.

Work out the distance the cyclist rides.

(2 marks)

Answer _____

- 2** A car travels 150 miles in 3 hours.

Work out its average speed in miles per hour.

(2 marks)

Answer _____

- 3** A train travels at an average speed of 60 km/h.

How long does it take to travel 240 km?

(2 marks)

Answer _____

- 4** A bus travels at an average speed of 36 km/h for 2.5 hours.

Work out the distance it travels.

(2 marks)

Answer _____

- 5** Amir drives 130 miles at an average speed of 40 miles per hour.

Work out how long the journey takes. Give your answer in hours and minutes.

(3 marks)

Answer _____

- 6** A gull flies at a speed of 15 metres per second.

Change 15 metres per second to kilometres per hour.

(2 marks)

Answer _____

7 Leila leaves home at 09:40 to drive 84 km at an average speed of 48 km/h.

At what time does she arrive?

(3 marks)

Answer _____

8 Femi runs 5 km in 25 minutes. She runs at a constant speed.

How long would it take her to run 8 km at the same speed?

(3 marks)

Answer _____

9 A lorry driver travels 48 km at an average speed of 64 km/h, then 63 km at an average speed of 42 km/h.

Work out the total time of the journey. Give your answer in hours and minutes.

(3 marks)

Answer _____

10 A cyclist rides at an average speed of 18 km/h.

a. How far does she ride in 2 hours 20 minutes?

b. How long does she take to ride 63 km? Give your answer in hours and minutes.

(3 marks)

Answer _____

11 Amber runs 15.6 km in 1 hour 30 minutes.

Work out her average speed in km/h.

(3 marks)

Answer _____

- 12** Mia leaves at 08:25 and drives at a constant speed of 72 km/h. She arrives at 11:05.
How far does she drive?

(3 marks)

Answer _____

- 13** Jonas must travel 150 km in 2 hours 30 minutes. He drives the first 90 km at an average speed of 72 km/h.
At what average speed must he drive the remaining 60 km to arrive on time?

(4 marks)

Answer _____

- 14** Sasha cycles at 12 km/h for 45 minutes. Leo runs at 3.5 m/s for 40 minutes.
Who travels further, and by how much? Show your working.

(4 marks)

Answer _____

- 15** On a map, 1 cm represents 2 km. Two towns are 7.5 cm apart on the map.
A bus travels between the towns at an average speed of 30 km/h. How long does the journey take? Give your answer in minutes.

(4 marks)

Answer _____

- 16** A lorry driver has to drive 289 miles from Leeds to Plymouth.
Her average speed for the journey is 48 miles per hour.
Work out an estimate for the time the journey takes.
Round both numbers to 1 significant figure before calculating.

(4 marks)

Answer _____

- 17** Amara drives 189 km at an average speed of 62 km/h.
- By rounding both numbers to 1 significant figure, work out an estimate for the time her journey takes.
Give your answer in hours and minutes.
 - Is your answer to part (a) an underestimate or an overestimate of the actual time?
Give a reason for your answer.

(4 marks)

Answer _____

- 18** Priya drives 90 km on a motorway at an average speed of 60 km/h.
She then drives 50 km on country roads at an average speed of 40 km/h.
Work out her average speed for the whole journey.
Give your answer correct to 1 decimal place.

(4 marks)

Answer _____

- 19** A cyclist travels 5.4 km in 12 minutes at a steady speed.
A sprinter runs at 8 metres per second.
Show that the sprinter is faster than the cyclist.

(4 marks)

Answer _____

- 20** A coach leaves Leeds at 09:40 and arrives in Newcastle at 12:10 on the same day.
The distance from Leeds to Newcastle by road is 175 km.
The coach company claims the average speed of the coach was more than 65 km/h.
Work out the average speed of the coach and state whether the claim is correct.

(4 marks)

Answer _____

- 21** A lorry driver drives for 2.5 hours at an average speed of 48 miles per hour.
She then drives for 1 hour 15 minutes at an average speed of 40 miles per hour.
Work out the total distance she drives.

(4 marks)

Answer _____

- 22** Marcus cycles the 60 km from his home to the coast at an average speed of 30 km/h.
He cycles back home along the same route at an average speed of 20 km/h.
Marcus says, "My average speed for the whole ride was 25 km/h, because 25 is halfway between 30 and 20."
Show that Marcus is wrong, and work out his actual average speed for the whole ride.

(4 marks)

Answer _____

End of questions | Total 71 marks