



1.13 – Speed, distance, time

Student name: _____ Score: _____

1. A bus leaves Afford at 07 55.
It travels 15 km to Beetown at a speed of 50 km/h.

Find the time the bus arrives in Beetown.

..... 08 13 [3]

2. Joe is training for a triathlon.

During one training session he

- swims 1 km in 15 minutes,
- cycles 20 km at a speed of 20 km/h,
- runs at a speed of 8 km/h for 45 minutes.

Calculate Joe's average speed for the training session.
Give your answer in kilometres per hour.

..... 14.5 km/h [3]

3. Wendy walks 9 km in $1\frac{1}{2}$ hours.

She then runs 9 km in 45 minutes.

Find her average speed in km/h for the whole journey.

..... 8 km/h [3]

4. Alex drives 40 km to work at a speed of 50 km/h.
He leaves home at 07 45.

Find the time he arrives at work.

..... 08 33 [3]

5. Dariella leaves home at 07 49 and takes 24 minutes to walk to school.

- (a) At what time does Dariella arrive at school?

..... 08 13 [1]

- (b) The distance to school is 1.4 km.

Calculate Dariella's walking speed.
Give your answer in kilometres per hour.

..... 1.75 km/h [2]

6. Change 12 metres per second into kilometres per hour.

..... 43.2 km/h [2]

7. Sacha drove 425 km from home at an average speed of 100 km/h.

(a) Calculate the time for the journey giving your answer in hours and minutes.

..... 4 h 15 min [2]

(b) The return journey took 3 hours and 55 minutes.
She started at 21 56.

At what time did she arrive home?

..... 01 51 [2]

8. A car travels 85 km in 50 minutes.

Find the average speed of the car, giving your answer in km/h.

..... 102 km/h [2]

9. Erica walks 13 km in 2 hours.
She then runs at a speed of 12 km/h for 45 minutes.

Find her average speed in km/h for the whole journey.

..... 8 km/h [3]

10. A truck of length 10 m passes a gate of length 2 m.
The speed of the truck is 8 m/s.

Find the time the truck takes to completely pass the gate.

..... 1.5 s [2]

11. A car travels 300 metres in 20 seconds.

Find the average speed of the car in

(a) metres per second,

..... 15 m/s [1]

(b) kilometres per hour.

..... 54 km/h [2]

12. A van has length 9 m.
It takes 1 second for the van to completely pass a gate of length 1 m.

Find the speed of the van.
Give your answer in km/h.

..... 36 km/h [2]



13. Kendra jogs 7 km in 45 minutes.
She then runs at 12 km/h for 30 minutes.

Find her average speed in km/h for the whole journey.

..... 10.4 km/h [3]

14. (a) Change 20 m/s into km/h.

..... 72 km/h [2]

(b) A train travels at 20 m/s for 45 minutes.

Work out the distance travelled.
Give your answer in kilometres.

..... 54 km [2]

15. Danny stands to watch a train go past.
The train has a length of 120 m and takes 3 seconds to pass.

Find the speed of the train

(a) in m/s,

..... 40 m/s [1]

(b) in km/h.

..... 144 km/h [2]

16. Xian walks 8 km in $1\frac{1}{2}$ hours.

She then runs 10 km in 45 minutes.

Find her average speed in km/h for the whole journey.

..... 8 km/h [3]