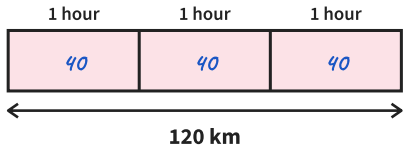
Speed, distance and time

ANSWERS

1

A bus travels 120 km in 3 hours.
Find its speed.

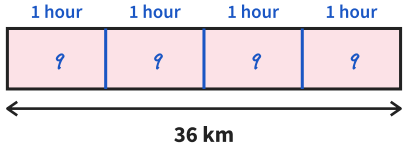


each hour = 120 ÷ 3

Speed (km/h) = 40

2

A runner covers 36 km in 4 hours.
Split the bar into hours.
Find the runner's speed.



each hour = 36 ÷ 4

Speed (km/h) = 9

3

A car travels at 48 km/h for 2.5 hours.
How far does it go?

Time (hours)	1	× 2.5 →	2.5
Distance (km)	48		120

distance = 48 × 2.5

Distance (km) = 120

4

A plane flies 1800 km at 600 km/h.
How long does the flight take?

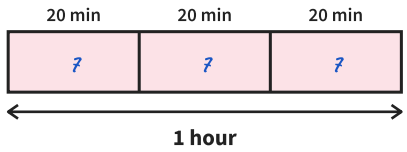
Time (hours)	1	× 3 →	3
Distance (km)	600		1800

multiplier = 1800 ÷ 600

Time (hours) = 3

5

A skateboarder rides 7 km in 20 minutes.
The bar is one hour. Find her speed in km/h.



1 hour = 3 × 7

Speed (km/h) = 21

6

A drone flies 33 km in 45 minutes.
Find its speed in km/h.

Time (hours)	1	× 0.75 →	0.75
Distance (km)	44		33

45 minutes = 0.75 hours

speed = 33 ÷ 0.75

Speed (km/h) = 44

7

Kai drives 135 km in 1 hour 30 minutes.
He works out 135 ÷ 1.3.
Explain his mistake. Find his speed.

30 minutes = 0.5 hours, not 0.3

speed = 135 ÷ 1.5

Speed (km/h) = 90

8

A courier rides 12 km in 1 hour, then 9 km in 30 minutes. Find the average speed for the whole journey.

total distance = 21 km

total time = 1.5 hours

speed = 21 ÷ 1.5

Average speed (km/h) = 14

Speed, distance and time *further practice*

ANSWERS

9

A sprinter runs 100 m in 12.5 seconds. Find her speed in m/s.

100 ÷ 12.5 = 8

Answer 8 m/s

10

A tractor drives at 24 km/h for 15 minutes. How far does it go?

15 minutes = 0.25 hours

24 × 0.25 = 6

Answer 6 km

11

A ferry crosses 14 km of water at 42 km/h. How many minutes does the crossing take?

14 ÷ 42 = ⅓ hour

⅓ of 60 minutes = 20

Answer 20 minutes

12

A minibus travels 210 km at 60 km/h. How long does it take? Give your answer in hours and minutes.

210 ÷ 60 = 3.5 hours

0.5 hours = 30 minutes

Answer 3 hours 30 minutes

13

Nia runs 6 km in 40 minutes. Owen runs 4 km in 25 minutes. Who runs faster? Show your working.

Nia: 6 ÷ ⅔ = 9 km/h

Owen: 4 × 60 ÷ 25 = 9.6 km/h

Answer Owen

14

A train travels 200 km. The timetable shows when it leaves and arrives. Work out its average speed in km/h.

	Time
Leaves	10:15
Arrives	12:45

10:15 to 12:45 = 2.5 hours

200 ÷ 2.5 = 80

Answer 80 km/h

15

Leah cycles 15 km at 10 km/h, then 20 km at 20 km/h. Work out her average speed for the whole ride.

times: 1.5 hours and 1 hour

35 ÷ 2.5 = 14

Answer 14 km/h

16

Raj walks 6 km at 6 km/h, then another 6 km at 3 km/h. He says his average speed is 4.5 km/h. Is he right? Explain.

times: 1 hour and 2 hours

12 ÷ 3 = 4 km/h, not 4.5

Answer No, it is 4 km/h