

Use and apply the speed formula

Maths

Mrs Dennett



Use and apply the speed formula

1. Work out the speeds to complete the table.

Distance (m)	Time taken (s)	Speed (m/s)
6	1	
12	1	
12	2	
12	4	
8	4	

2. Complete the missing information. Include units in your answers.

Distance	Time	Speed
5 km	1 hour	
	2 hours	15 km/h
90 miles		15 mph
90 metres		5 m/s
	30 minutes	30 mph



Use and apply the speed formula

3. A lorry travels 90 miles in 2.5 hours. What is the average speed of the lorry for this journey?

4. Susan runs 3 km at a constant speed of 6 km/h. She then runs 4.5 km at a constant speed of 3 km/h.

a) How long did it take her to run the complete 7.5 km?

b) What is her average speed over the whole run?

5. It take 45 minutes to travel from A to B at a constant speed of 18 km per hour.

a) What is the distance AB?

b) How long would it take to travel between A and B if you were travelling at 3 km/h?



Answers



Use and apply the speed formula

1. Work out the speeds to complete the table.

Distance (m)	Time taken (s)	Speed (m/s)
6	1	6
12	1	12
12	2	6
12	4	3
8	4	2

2. Complete the missing information. Include units in your answers.

Distance	Time	Speed
5 km	1 hour	5 km/h
30 km	2 hours	15 km/h
90 miles	6 hours	15 mph
90 metres	18 seconds	5 m/s
15 miles	30 minutes	30 mph



Use and apply the speed formula

3. A lorry travels 90 miles in 2.5 hours.
What is the average speed of the lorry
for this journey? **36 mph**

4. Susan runs 3 km at a constant speed
of 6 km/h. She then runs 4.5 km at a
constant speed of 3 km/h.

a) How long did it take her to run the
complete 7.5 km? **2 hours**

b) What is her average speed over the
whole run? **3.75 km/h**

5. It take 45 minutes to travel from A
to B at a constant speed of 18 km per
hour.

a) What is the distance AB?

13.5 km

b) How long would it take to travel
between A and B if you were
travelling at 3 km/h?

4.5 hours

