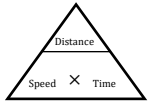


MATHS TEACHER HUB

Speed calculations



$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$

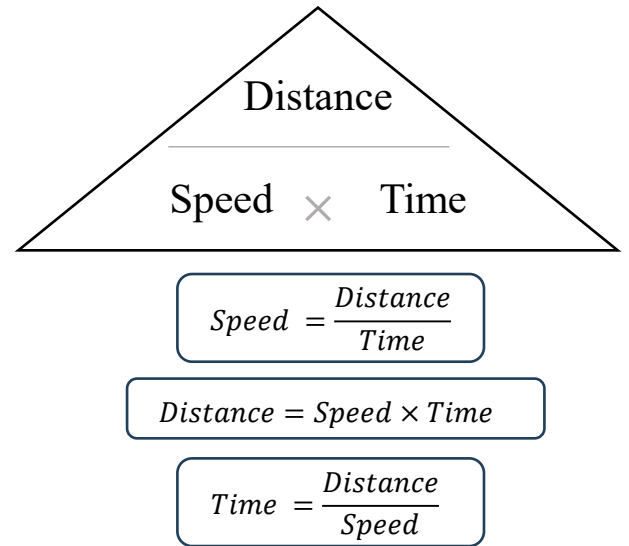
	Speed	Distance	Time	Working out
1.	50mph	100 miles		
2.	30kmph	90km		
3.		60miles	4 hours	
4.		75km	3 hours	
5.	15mph		2 hours	
6.	70kmph		2 hours	
7.	60 mph	120 miles		
8.		35 km	5 hours	
9.	12 mph		2 hours	
10.	30 mph	120 miles		
11.		170 km	2 hours	
12.	25 mph		6 hours	
13.	8 mps	200 metres		
14.		96 km	3 hours	
15.	13 mps		14 seconds	

Speed, distance and time calculations

Write the following minutes as fractions of an hour.

1. 30 minutes =
2. 15 minutes =
3. 45 minutes =
4. 20 minutes =
5. 10 minutes =
6. 40 minutes =
7. 90 minutes =
8. 24 minutes =

Formulas:



1. Speed = 20 *mph*

Distance =

Time = 3 *hours*

2. Speed =

Distance = 80 *km*

Time = 2 *hours*

3. Speed = 15 *m/s*

Distance = 300 *metres*

Time =

4. Speed = 60 *mph*

Distance =

Time = 2 *hours*

5. Speed =

Distance = 45 *km*

Time = 3 *hours*

6. Speed = 8 *mph*

Distance = 200 *miles*

Time =

7. Speed = 42 *mph*

Distance =

Time = 5 *hours*

8. Speed = 6 *km/h*

Distance = 54 *km*

Time =

Speed, distance and time calculations

9. Speed = 18 *mph*

Distance =

Time = 2 *hours*

10. Speed =

Distance = 240 *km*

Time = 4 *hours*

11. Speed = 8 *m/s*

Distance = 400 *metres*

Time =

12. Speed = 25 *mph*

Distance =

Time = 3 *hours*

13. Speed =

Distance = 45 *km*

Time = 3 *hours*

14. Speed = 60 *mph*

Distance = 30 *miles*

Time =

15. Speed = 36 *mph*

Distance =

Time = 3 *hours*

16. Speed = 28 *km/h*

Distance = 42 *km*

Time =

17. Speed =

Distance = 40 *km*

Time = $\frac{1}{2}$ *hour*

18. Speed = 45 *mph*

Distance = 135 *miles*

Time =

19. Speed = 30 *mph*

Distance =

Time = $\frac{1}{3}$ *hour*

20. Speed = 48 *km/h*

Distance = 12 *km*

Time =

Speed, distance and time calculations

21. Speed = 24 *mph*

Distance =

Time = $1\frac{1}{2}$ *hours*

22. Speed =

Distance = 24 *km*

Time = 30 *minutes*

23. Speed = 64 *km/h*

Distance = 160 *km*

Time =

24. Speed = 40 *mph*

Distance =

Time = 15 *minutes*

25. Speed =

Distance = 15 *km*

Time = 45 *minutes*

26. Speed = 26 *mph*

Distance = 52 *miles*

Time =

27. Speed = 45 *mph*

Distance =

Time = 20 *minutes*

28. Speed = 62 *km/h*

Distance = 310 *km*

Time =

29. Speed =

Distance = 72 *km*

Time = 90 *minutes*

30. Speed = 40 *mph*

Distance = 250 *miles*

Time =

31. Speed = 84 *mph*

Distance =

Time = 10 *minutes*

32. Speed = 300 *km/h*

Distance = 240 *km*

Time =

33. Marcus drove for 3 hours.
His average speed was 50 miles per hour.

Work out the distance Marcus drove.

34. Harriet runs at an average speed of 8 metres per second.
How long will it take her to run the 100 metre race?
-

35. Benjamin drives to the airport.
The airport is 30 miles from his house.
It takes Benjamin half an hour to get to the airport.

What was Benjamins average speed?

36. Leona took 90 minutes to get to her grandparent's house.
Her average speed was 45 km/h.

How far away do her grandparents live?

37. It takes Andrew 20 minutes to get to the cinema.
The cinema is 12 miles away.

What was Andrews average speed on his journey?

38. A train travels at an average speed of 60 mph.
The journey took 2 and a half hours.
How far has the train traveled in this time?