# Speed, Distance and Time

Secondary Maths · Secondary 2–4 · O-Level · About 25 minutes · 8 questions

Name _____ Date _____ Score / 8

**WHAT YOU WILL PRACTISE**

- Calculate speed, distance or time from the other two
- Convert times in minutes into hours before calculating
- Find the average speed for a journey in two parts

**WORKED EXAMPLE**

A van travels 135 km in 2 hours 15 minutes. Find its average speed.

1. Change the time into hours: 15 minutes is 0.25 hours, so the time is 2.25 hours.
2. Use speed = distance ÷ time: 135 ÷ 2.25.
3. Calculate: 60.

**Answer:** 60 km/h

## Questions

Show your working in the space under each question.

**1.** A car travels 150 km in 3 hours. Find its average speed.

**2.** A cyclist rides at 18 km/h for 2.5 hours. How far does the cyclist travel?

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**3.** A train travels 240 km at an average speed of 80 km/h. How long does the journey take?

**4.** A runner covers 400 m in 50 seconds. Find the runner’s average speed in m/s.

**5.** A bus travels 90 km in 1 hour 30 minutes. Find its average speed.

**6.** A plane flies at 600 km/h for 45 minutes. How far does it fly?

**7.** Convert 72 km/h to m/s.

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**8.** A car travels 60 km at 40 km/h and then another 60 km at 60 km/h. Find the average speed for the whole journey.

# Answers: Speed, Distance and Time

Mark your own work, then go back to any question you got wrong before reading the tutor tip.

| Q | QUESTION | ANSWER |
|---|---|---|
| 1 | A car travels 150 km in 3 hours. Find its average speed. | **50 km/h** |
| 2 | A cyclist rides at 18 km/h for 2.5 hours. How far does the cyclist travel? | **45 km** |
| 3 | A train travels 240 km at an average speed of 80 km/h. How long does the journey take? | **3 hours** |
| 4 | A runner covers 400 m in 50 seconds. Find the runner's average speed in m/s. | **8 m/s** |
| 5 | A bus travels 90 km in 1 hour 30 minutes. Find its average speed. | **60 km/h** |
| 6 | A plane flies at 600 km/h for 45 minutes. How far does it fly? | **450 km** |
| 7 | Convert 72 km/h to m/s. | **20 m/s** |
| 8 | A car travels 60 km at 40 km/h and then another 60 km at 60 km/h. Find the average speed for the whole journey. | **48 km/h** |

**TUTOR TIP**

Change minutes into hours as a decimal before you divide. 15 minutes is 0.25 hours, not 0.15.

**Stuck on a question? Work through it live with a tutor.**

YFCampus offers one-to-one online Maths tutoring matched to your school curriculum. Book a free trial class at **www.yfcampus.com/sg**

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