Speed, Distance and Time

Year 10–11 Maths · Years 10–11 · NCEA Level 1 · 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/nz**

Written for students aged 13 to 16 and suitable for Years 10–11. Check your school’s curriculum for the exact order of topics. YFCampus is independent and is not affiliated with any exam board or education ministry.