

Road journeys

This task is about solving problems involving speed and distance.

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

The distance between Auckland and Taupō by road is 278 kilometres. If the time taken for this journey is 4 hours, what is the average speed? (Show your working.)

a) _____

The Weepu whānau were travelling from Rotorua to Wairoa for a whānau hui. The journey took them 4 hours and their average speed was 55 kilometres per hour. How far is it from Rotorua to Wairoa? (Show your working.)

b) _____

A group of Year 10 students from Invercargill were going by bus to Milford Sound. The bus company said that the bus would travel at an average speed of 50 kilometres per hour for the journey. The students knew the distance from Invercargill to Milford was 275 km. How long would the journey take? (Show your working.)

c) _____

A car travelled at an average speed of 45 kilometres per hour for 20 minutes. How far would d) the car have travelled in this time? _____

If the car travelled 20 km in 15 minutes, what was its average speed? _____ kilometres e) per hour

If the car travelled 60 km at an average speed of 90 kilometres per hour, how long would f) the journey have taken? _____ minutes