Speed, distance and time

6 questions | 11 marks

Equivalent correct methods earn the corresponding marks.

1. Find the average speed for 180 km in 3 hours. [1 mark]

$180 \div 3 = 60$.

Answer: 60 km/h.

2. Find the average speed for 84 km in 1.2 hours. [2 marks]

$84 \div 1.2 = 70$.

Answer: 70 km/h.

3. Find the distance travelled at 54 km/h for 2 hours. [1 mark]

$d = 54 \times 2 = 108$.

Answer: 108 km.

4. A bus travels at 90 km/h for 40 minutes. Find the distance. [2 marks]

40 min is $\frac{2}{3}$ h.

$90 \times \frac{2}{3} = 60$ km.

Answer: 60 km.

5. A runner covers 2.4 km in 15 minutes. Find the average speed in km/h. [2 marks]

15 min is 0.25 h.

$2.4 \div 0.25 = 9.6$.

Answer: 9.6 km/h.

6. A car travels 60 km at 60 km/h, then 60 km at 30 km/h. Find its average speed over both stages. [3 marks]

The times are $60 \div 60 = 1$ h and $60 \div 30 = 2$ h.

Total distance is 120 km and total time is 3 h.

$120 \div 3 = 40$ km/h.

Answer: 40 km/h.