5.5 Speed and Density: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A runner completes a 400 metre lap in 80 seconds. Work out the runner's speed in metres per second (m/s).

(Total for Question 1 is 2 marks)

2 A car travels 150 km in 3 hours, travelling at a constant average speed.
Calculate the average speed of the car in km/h.

(Total for Question 2 is 2 marks)

3 A coach travels at an average speed of 56 km/h for 2 hours 30 minutes. Work out the distance travelled.

(Total for Question 3 is 3 marks)

4 Convert a speed of 20 m/s into km/h.

(Total for Question 4 is 2 marks)

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Mark scheme · 5.5 Speed and Density: 10-minute Pack

Question 1

use speed = distance/time, 400/80 or equivalent	**M1**
5 m/s cao	**A1**

Answer: 5 m/s

Question 2

speed = distance / time i.e. 150 / 3 oe	**M1**
50 (km/h) cao	**A1**

Answer: 50 km/h

Question 3

2 hours 30 minutes = 2.5 hours oe	**M1**
56 x 2.5 (dep)	**M1**
140 (km) cao	**A1**

Answer: 140 km

Question 4

20 x 3.6 oe, e.g. 20 x 3600 / 1000	**M1**
72 (km/h) cao	**A1**

Answer: 72 km/h

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