

## GCSE Physics B (Twenty First Century Science)

J259/01 Breadth in Physics (Foundation Tier)

## **Question Set 3**

**Multiple Choice Questions** 

**1** Alex is planning his journey to school.

(a) Alex usually walks to school.

Which is the most likely speed at which Alex walks?

Put a (ring) around the correct answer.

(b) He could travel by car.

A car travels at 36 km/h (kilometres per hour).

Which is the correct calculation to work out this speed in m/s (metres per second)?

Put a (ring) around the correct answer.



(c) In the end Alex decides to cycle to school.

The graph shows the first part of this journey.



(i) Put a tick  $(\checkmark)$  in the **one** correct box in each row.

	Α	В	С	D
In which section does Alex have an average speed of 3.5 m/s?	$\checkmark$			
In which section does Alex slow down?			$\checkmark$	

[1]

[1]

(ii) Calculate the acceleration in section **A** of the journey.

Use the equation: acceleration = change in speed ÷ time.

Total Marks for Question Set 3: 7



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