

# Speed, Distance, Time

Please write clearly in block capitals

Forename:

Surname:

## Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

## Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

## Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

## Advice

- In all calculations, show clearly how you work out your answer.

- 1(a)** How long would it take you to travel 3 kilometres, if you walked at 6 km/h (Level 4)  
Give your answer in minutes.

[1 mark]

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\_\_\_\_\_

Answer \_\_\_\_\_ minutes

- 1(b)** What is Laura's average speed if she travels 126 miles in 2 hours?

[1 mark]

\_\_\_\_\_

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Answer \_\_\_\_\_ mph

- 1(c)** Emma travels at a speed of 23 miles per hour for 3.5 hours.  
How far has she travelled?

[1 mark]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Answer \_\_\_\_\_ miles

Turn over for next question

**2(a)** A car journey of 214 miles took Jack a total 7 hours and 15 minutes to complete. (Level 4)

Calculate his average speed across the journey to 2 decimal places.

You must state the units.

[2 marks]

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Answer \_\_\_\_\_

**2(b)** Jack completed the return journey in half the time.

What was his average speed on the return journey?

[1 mark]

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Answer \_\_\_\_\_



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**3(a)** Nabeel travelled to London by train, her journey was made up of two parts. (Level 5)

One train into York and then another train into London.

The first train departed at 07:05 and the journey lasted for 12 minutes.

The second train departed at 07:27 and the journey lasted for 122 minutes.

The total distance travelled was 197 miles.

What was Nabeela's average speed for the entire journey?

**[2 marks]**

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Answer \_\_\_\_\_ mph

**3(b)** York to London is a distance of 175 miles.  
How many miles an hour faster was the first part of the journey?

**[3 marks]**

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Answer \_\_\_\_\_ mph

**Turn over for next question**

4 Trihao is driving from Cambridge to London. (Level 5)  
Assume the distance between Cambridge and London is 100 km.

4(a) Given that Trihao drives at an average speed of 80km/h, work out his journey time.

[2 marks]

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Answer \_\_\_\_\_

4(b) Chris instead decides to take the train.  
He leaves Cambridge at the same time as Trihao, but arrives in London 20 minutes before Trihao arrives.

Calculate the average speed of the train.

[2 marks]

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Answers \_\_\_\_\_

Turn over for next question

**5(a)** Jordan finishes college at 16:30 h. (Level 5)

He walks to his mum's work 0.24 km away, at a speed of 2 km/h.

He waits there 7 minutes for his mum to finish work before she drives them both 7 km back home at an average speed of 26 km/h.

What time does Jordan arrive home?

Give your answer to the nearest minute.

**[3 marks]**

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Answer \_\_\_\_\_

**5(b)** If Jordan jogs the 7.1 km directly home at a speed of 7.4 km/h, at what time would he arrive home?

Give your answer to the nearest minute.

**[2 marks]**

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Answer \_\_\_\_\_



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6

Anna needs to be at the museum for the open evening at 18.00 h.

(Level 6)

She will walk to the museum from the bus depot at a speed of 3 mph.

To arrive at the bus depot she will catch the bus at the stop from near her house. The bus travels at an average speed of 25 mph.

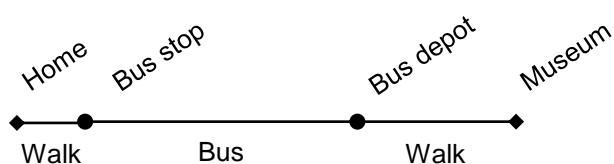
On the walk from her house to the bus stop she will average a speed of 6mph.

The bus depot is 0.7 miles from the museum.

The bus journey from bus stop to bus depot is 2.2 miles.

The walk from her house to the bus stop is 0.3 miles.

Buses leave the bus stop at 15 minute intervals starting from 07:00 h.



What is the latest bus Anna can catch and still arrive at the museum on time?

**[4 marks]**


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Answer \_\_\_\_\_

**Turn over for next question**

7(a)

Mrs Smith travels on Plane M, which flies at an average speed of 825 km/h for 7 hours and 24 minutes from Location A to Location B.

(Level 6)

She then waits at Location B for 2 hours and 11 minutes, before flying to Location C on Plane N, which flies at an average speed of 722 km/h for 4 hours and 48 minutes.

Both planes fly in a straight line to their respective destinations.

What is the total distance of her journey?

**[2 marks]**


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Answer \_\_\_\_\_ km

7(b)

The journey from Location A to Location B to Location C is such that it forms a right angle at Location B.

Plane Z flies directly from Location A to Location C at a speed of 795km/h

If Plane Z leaves Location A at 11.53 h, what time does it arrive at Location C?

**[3 marks]**


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Answer \_\_\_\_\_



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