### Name:

## Maths Genie Stage 8

# Test C

#### Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.
- Calculators may be used.

#### Information

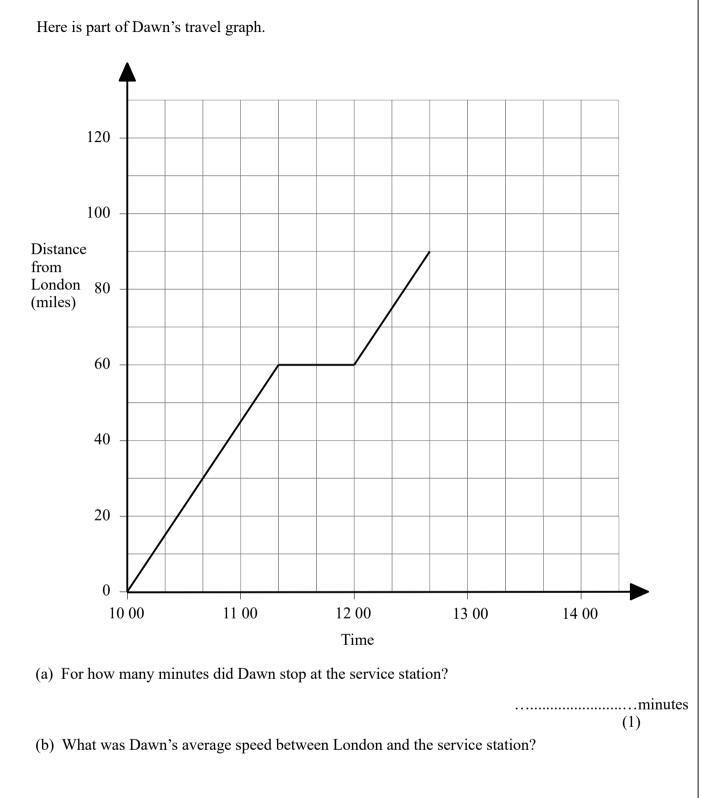
- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

#### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end



Dawn drove from London to Birmingham. She made one stop at a service station.



.....miles/hour

(2)

(Total for Question 1 is 3 marks)

1

In a sale, the normal price of a car is reduced by $30\%$ .	
The sale price of the car is £5950	
Work out the normal price of the car.	
	£
	(Total for Question 2 is 2 marks
(a) Write $3.71 \times 10^{-5}$ as an ordinary number.	
(b) Write 9 million in standard form.	(1)
(c) Calculate $(4.3 \times 10^5) \times (3.5 \times 10^{-2})$	(1)
Give your answer in standard form.	
	(2)
	(Total for Question 3 is 4 marks
Expand and simplify $(4x-3)(x-2)$	
	(Tedal 6 0 4: 4: 2 )
	(Total for Question 4 is 2 marks

5

He assumes he can run 8 miles at the same speed.

Work out how long it would take Andrew to run 8 miles.

Give your answer in minutes and seconds to the nearest second.

..... mins ..... secs

(Total for Question 5 is 4 marks)

6 Solve  $b^2 - 10b + 24 = 0$ 

(Total for Question 6 is 3 marks)

