# MME

## GCSE MATHEMATICS

### Proofs (Foundation)

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.







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4	Prove the product of two even numbers is always even.	[2 marks]
	Answer	
5	Prove that the product of two odd numbers is always odd.	[2 marks]
	Answer	
6	Prove algebraically that the sum of two consecutive numbers is odd.	[3 marks]
	Answer	
	Image: State	

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Turn over ►

7(a)	Tom says that $7x - (2x + 3)(x + 2)$ is always negative.	
	Is he correct? Explain your answer.	[2 marks]
		[5 marks]
	Answer	
7(b)	Change a single number in Tom's statement that would lead to a change in y conclusion.	your
	Why is this the case?	
		[1 mark]
	Answer	
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