MME

GCSE MATHEMATICS

Inequalities on a Number Line

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)	Which value for x will satisfy the following inequality? $6 > x \ge -5$				
	x = -10	x = -1	x = 6	x = 10	[1 mark]
1(b)	Which inequality is satisfied by $x = 3$?				[1 mark]
	$x \leq -3$	x > -2	3 > x > -9	<i>x</i> > 3	
1(c)	Which inequality is equivalent to the following? 6r = 3 < 2r + 9				
	$x < \frac{6}{8}$	x > 3	x < 3	$x > \frac{6}{8}$	[1 mark]
Turn over for next question					

Turn over ►









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