MME

GCSE MATHEMATICS

Bearings

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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Starting at point *A*, Freya makes a journey as follows:

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	8 km on a bearing of 135° to B	
	4 km , on a bearing of 180° to C	
	6 km on a bearing of 315° to D	
5(a)	Use the space below to draw a suitable diagram to represent her journey.	
		[3 marks]
	A	1 cm = 1 km
	$A \bullet$	
5(b)	Freya wants to return to A.	
	What is the bearing of A from D?	
		[1 mark]
	Turn over for next question	
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George needs to take the route as follows.

6 km on a bearing of 080° from A to B

5 km on a bearing of 160° from B to C

The scale is 1.5 cm = 1 km

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However, George uses an incorrect scale of 1 cm = 1 km and ends up at *D*.

What bearing and distance does he need to take to end up at the correct destination of *C*?

[4 marks]

Bearing = Distance =		
End of Questions		4
	END	