

GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

(Level 5 - 6)

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.

2 By measuring the angles below, state the bearings of: 1 (Level 5) N 1(a) A From B [1 mark] Answer 1(b) B From A [1 mark] Answer Turn over ▶

2	A diagram of a bearing is shown below.		(Level 5)
	1cm = 2km		
	By measuring the diagram given:		
2(a)	State the bearing of B from A.		[1 mark]
	Answer	_	
2(b)	State the bearing of A from B.		
	Answer	-	[1 mark]
2(c)	Find the distance between A and B.		
			[1 mark]
	Answer	km	

The location C is on a bearing of 140° from A.

(Level 5)

The bearing of C from B is 250°.

Find the location C and mark it on the diagram below.

[3 marks]







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	5	
4	A map with a scale is given below.	(Level 5)
-	Aberdeen	Birmingham
-		
-	Crew	
-	Clew	Flamborough
-		urham
-	Easingwold	
		1 cm = 10 km
	Give the bearings and the distance for the following	journeys.
4(a)) Aberdeen to Flamborough	[1 mark]
	Bearing = Dist	ance =
4(b)) Birmingham to Crewe	Mary and A
		[1 mark]
	Bearing = Dist	ance =
4(c)) Durham to Crewe.	
		[1 mark]
	Bearing = Dist	ance =

Turn over ▶

5	Starting at point A, Freya makes a journey as follows:	(Level 6)
	8km on a bearing of 135° to B	
	4km, on a bearing of 180° to C	
	6km on a bearing of 315° to D	
5(a)	Use the space below to draw a suitable diagram to represent her journey.	
		[3 marks]
		1 cm = 1 km
	A •	
5(b)	Freya wants to return to A.	
	What is the bearing of A from D?	
		[1 mark]
	Turn over for next question	

Turn over ▶

6	The bearing of C from A is 190°, and C is 5km from A.	(Level 6)
	The bearing of D from B is 270°, and D is 7km from A.	
6(a)	Draw points C and D on the diagram below using the information given.	
		[2 marks]
		1 cm = 1 km
	↑	
	A •	
		^
		В
6(b)	Work out the bearing of C from D, and give the distance they are apart.	
		[2 mark]
	Turn over for next question	

Turn over ▶

George needs to take the route as follows. (Level 6) 6km on a bearing of 080° from A to B 5km on a bearing of 160° from B to C The scale is 1.5cm = 1km However, George uses an incorrect scale of 1cm = 1km 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]		8	
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