

Bearings

Mark Scheme

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Bearings
Grade Level	Grade 4
Booklet	Mark Scheme

Time Allowed: 31 minutes

Score: /26

Percentage: /100

Grade Boundaries:

1.

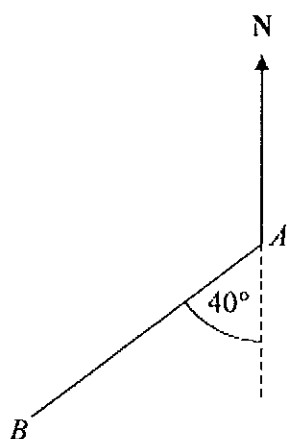


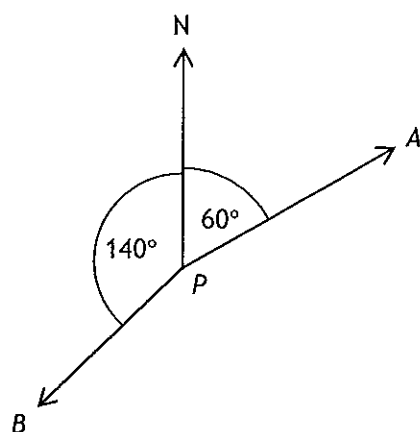
Diagram NOT
accurately drawn

Work out the bearing of B from A .

..... 220°

(2 marks)

2.



(a) Write down the bearing of A from P .

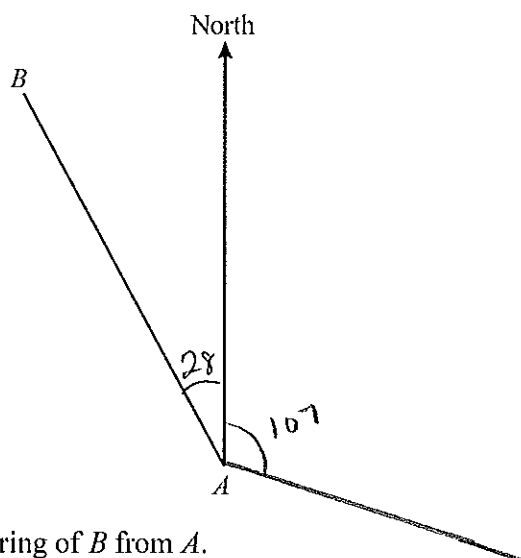
..... 060°

(b) Work out the bearing of B from P .

..... 220°

(3 marks)

3.



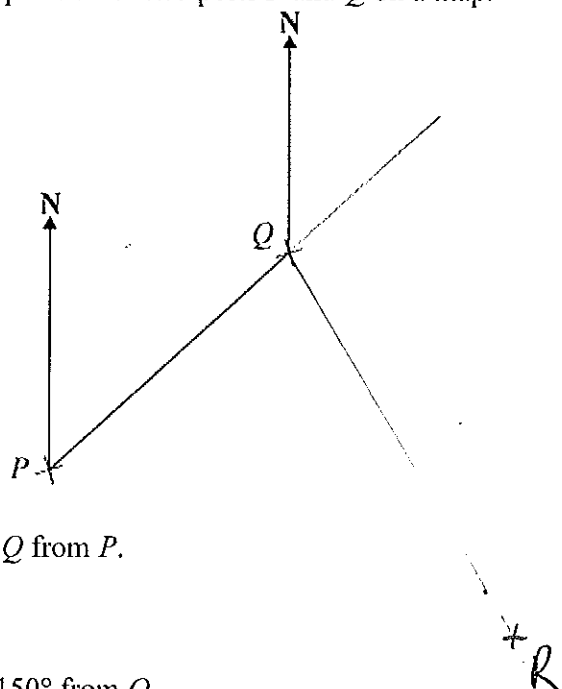
- (a) Measure and write down the bearing of B from A .

.....332.....°
(1)

- (b) On the diagram, draw a line on a bearing of 107° from A .

(1)
(2 marks)

4. The diagram shows the position of two ports P and Q on a map.



- (a) Measure the bearing of Q from P .

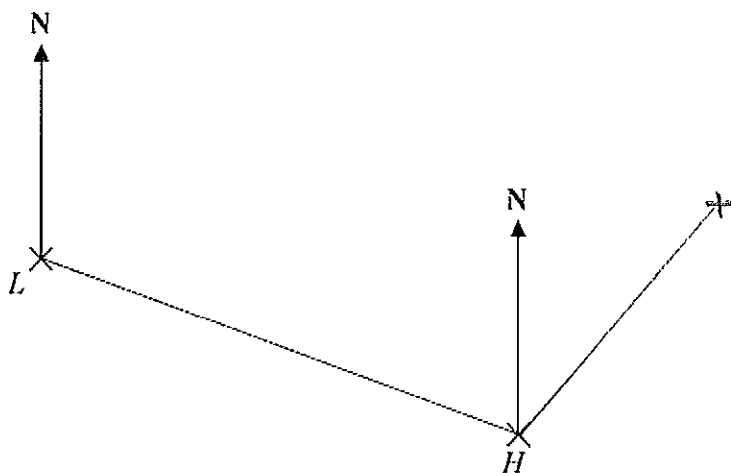
.....048.....°
(1)

A rock R is on a bearing of 150° from Q .
On the map R is 6 cm from Q .

- (b) Mark the position of R with a cross (\times) and label it R .

(2)
(3 marks)

5. The diagram shows the position of a lighthouse L and a harbour H .



The scale of the diagram is 1 cm represents 5 km.

- (a) Work out the real distance between L and H .

$$6.8 \times 5$$

.....32..... km
(1)

- (b) Measure the bearing of H from L .

.....110.....°
(1)

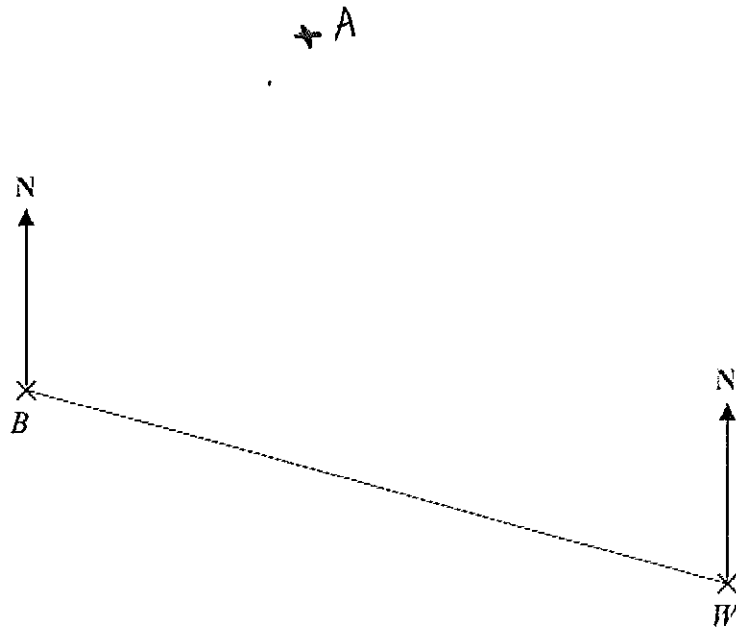
A boat B is 20 km from H on a bearing of 040°

- (c) On the diagram, mark the position of boat B with a cross (\times).

Label it B .

(2)
(4 marks)

6. The diagram shows the positions of two villages, Beckhampton (B) and West Kennett (W).



Scale: 4 cm represents 1 km.

- (a) Work out the real distance, in km, of Beckhampton from West Kennett.

9.6 cm

.....2.4..... km
(2)

The village, Avebury (A), is on a bearing of 038° from Beckhampton.

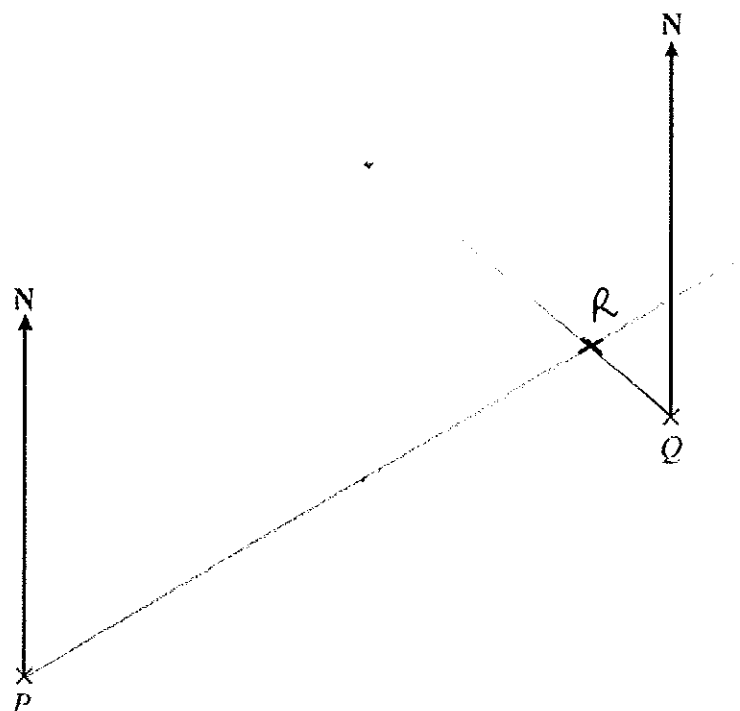
On the diagram, A is 6 cm from B .

- (b) On the diagram, mark A with a cross (\times).
Label the cross A .

(2)

(4 marks)

7. The diagram shows the position of two boats, P and Q .



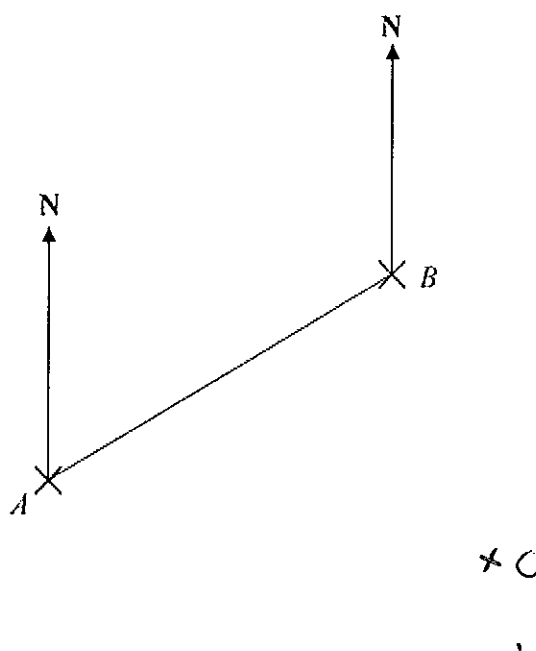
The bearing of a boat R from boat P is 060°

The bearing of boat R from boat Q is 310°

In the space above, draw an accurate diagram to show the position of boat R .
Mark the position of boat R with a cross (\times). Label it R .

(3 marks)

8. The diagram shows the positions of two telephone masts, A and B , on a map.



- (a) Measure the bearing of B from A .

.....59.....°
(1)

Another mast C is on a bearing of 160° from B .

On the map, C is 4 cm from B .

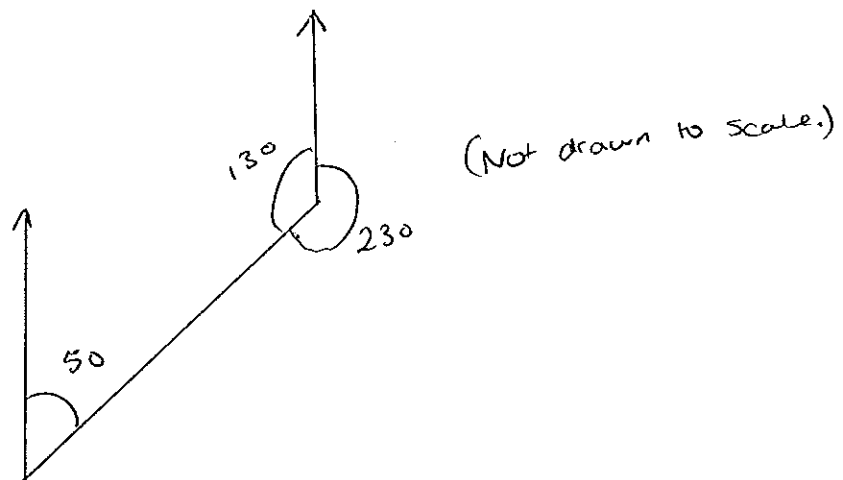
- (b) Mark the position of C with a cross (\times) and label it C .

(2)

(3 marks)

9. The bearing of a ship from a lighthouse is 050°

Work out the bearing of the lighthouse from the ship.



..... 230

(2 marks)