

Name: _____

GCSE (1 – 9)

Bearings

Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

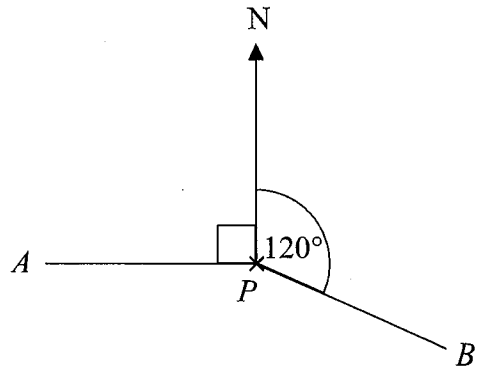
Information

- The marks for each Question are shown in brackets
– *use this as a guide as to how much time to spend on each Question.*

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

1



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

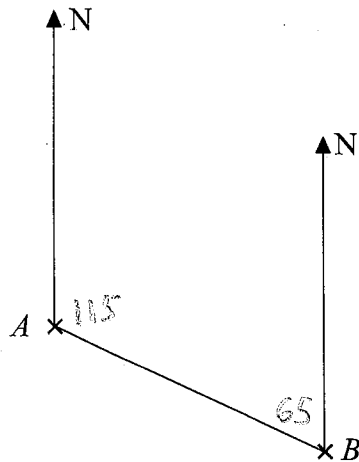
..... 120 °
(1)

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

..... 270 °
(1)

(Total for Question 1 is 2 marks)

2



(a) Measure the bearing of B from A .

..... 115 °
(1)

(b) Measure the bearing of A from B .

$360 - 65$

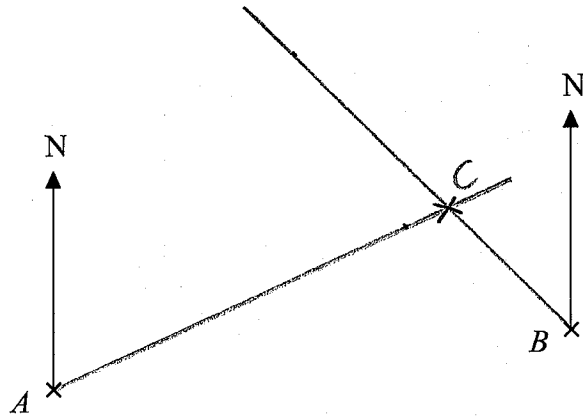
..... 295 °
(1)

(Total for Question 2 is 2 marks)

3 The accurate scale drawing shows the positions of boat *A* and boat *B*.

Boat *C* is on a bearing of 065° from *A*.

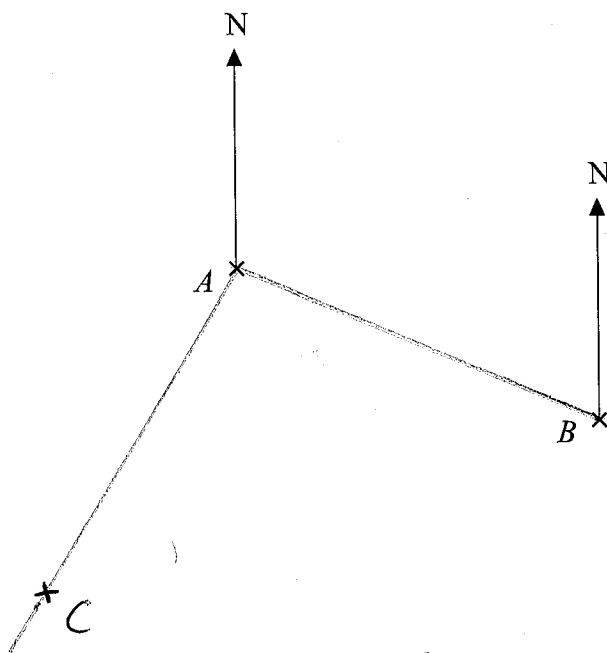
Boat *C* is on a bearing of 315° from *B*.



On the diagram, mark with a cross (x) the position of boat *C* on the diagram.

(Total for Question 3 is 2 marks)

4 The accurate scale drawing shows the positions of boat *A* and boat *B*.



Scale
2 cm represents 1 km

(a) Find the distance from *A* to *B*.

5.2 cm

$$5.2 \div 2 = 2.6$$

2.6

km

(1)

(b) Measure the bearing of *B* from *A*.

113

°

(1)

Another boat *C* is 2.5 km from *A* on a bearing of 210°

(c) On the diagram, mark the position of boat *C* with a cross (×).

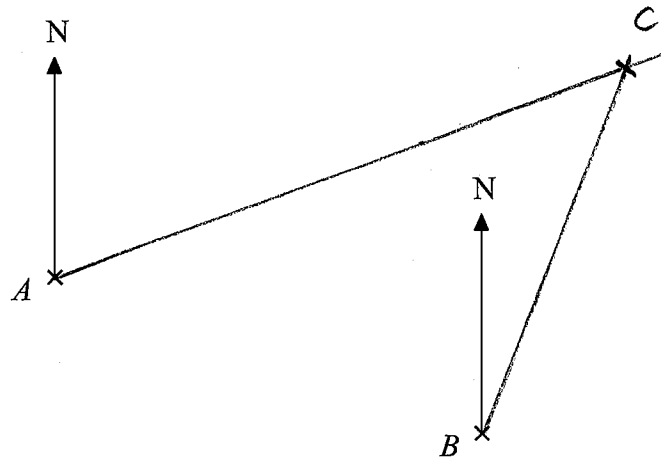
(2)

$$2.5 \text{ km} = 5 \text{ cm}$$

(Total for Question 4 is 4 marks)

5 The accurate scale drawing shows the positions of point A and point B .

Point C is 8 cm from point A on a bearing of 070°



(a) Find the distance from B to C .

5.2 cm

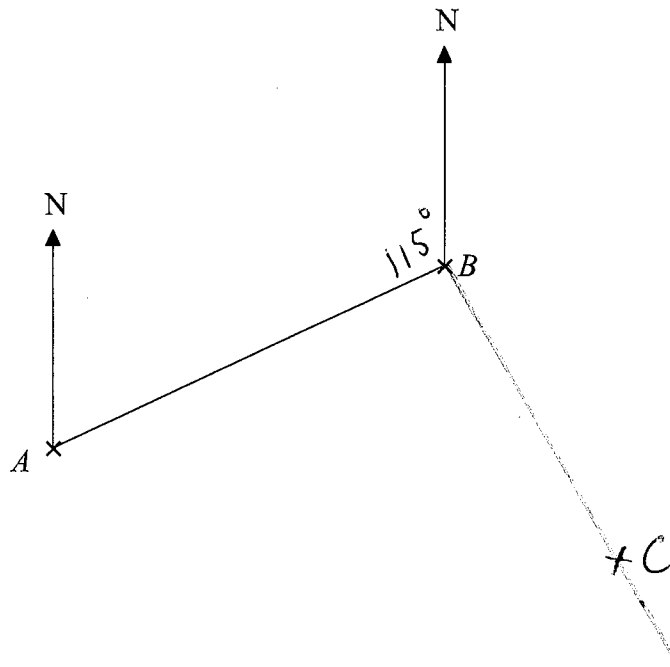
5.2 cm
.....
(2)

(b) Find the bearing of C from B .

022
.....
(2)

(Total for Question 5 is 4 marks)

- 6 The accurate scale drawing shows the positions of point A and point B .
1 cm represents 100 m.



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

$$360 - 115$$

$$\underline{245}^{\circ}$$

(1)

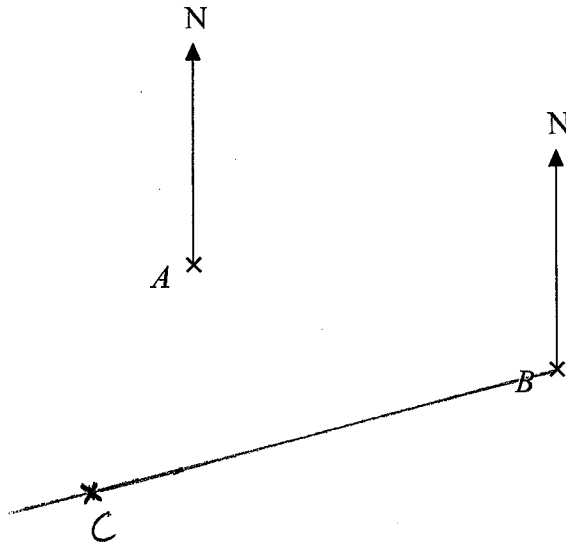
Point C is 450 m from B on a bearing of 150°

- (b) Draw point C , with a cross (\times), on the diagram.

(2)

(Total for Question 6 is 3 marks)

- 7 The accurate scale drawing shows the positions of two towns, town *A* and town *B*.
2 cm represents 1 km.



- (a) Find the real distance between town *A* and town *B*.

$$5 \text{ cm} = 2.5 \text{ km}$$

$$2.5 \text{ km}$$

(1)

Town *C* is 3.2 km from *B* on a bearing of 255°

- (b) Draw the position of town *C*, with a cross (\times), on the diagram.

(2)

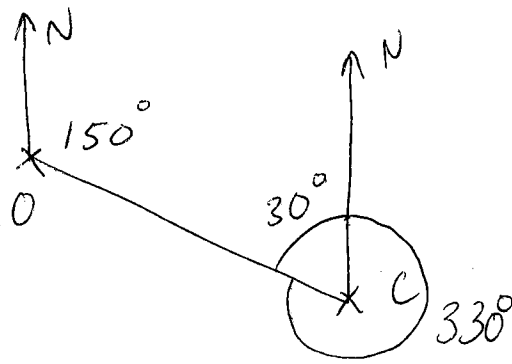
$$3.2 \text{ km} = 6.4 \text{ cm}$$

$$360 - 255 = 105$$

(Total for Question 7 is 3 marks)

8 Oxford is on a bearing of 330° from Cambridge.

Find the bearing of Cambridge from Oxford.



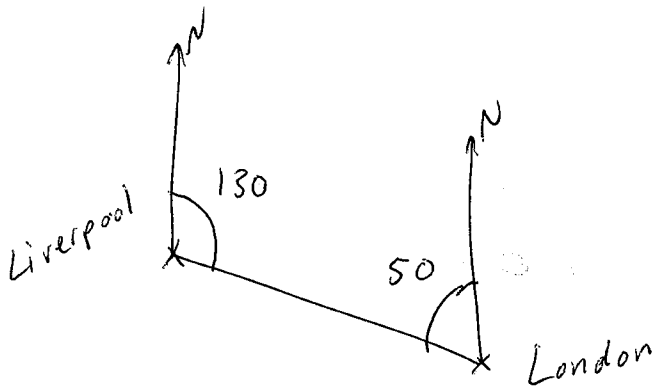
$$180 - 30 = 150^\circ$$

150 °

(Total for Question 8 is 2 marks)

9 The bearing of London from Liverpool is 130°

Find the bearing of Liverpool from London.



$$360 - 50 = 310^\circ$$

310 °

(Total for Question 9 is 2 marks)