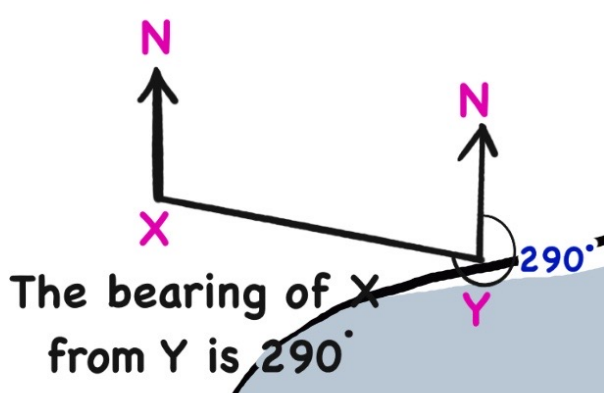
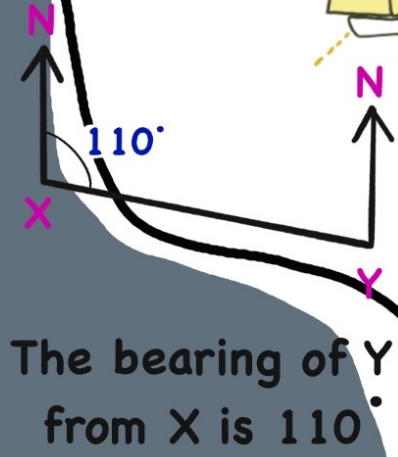
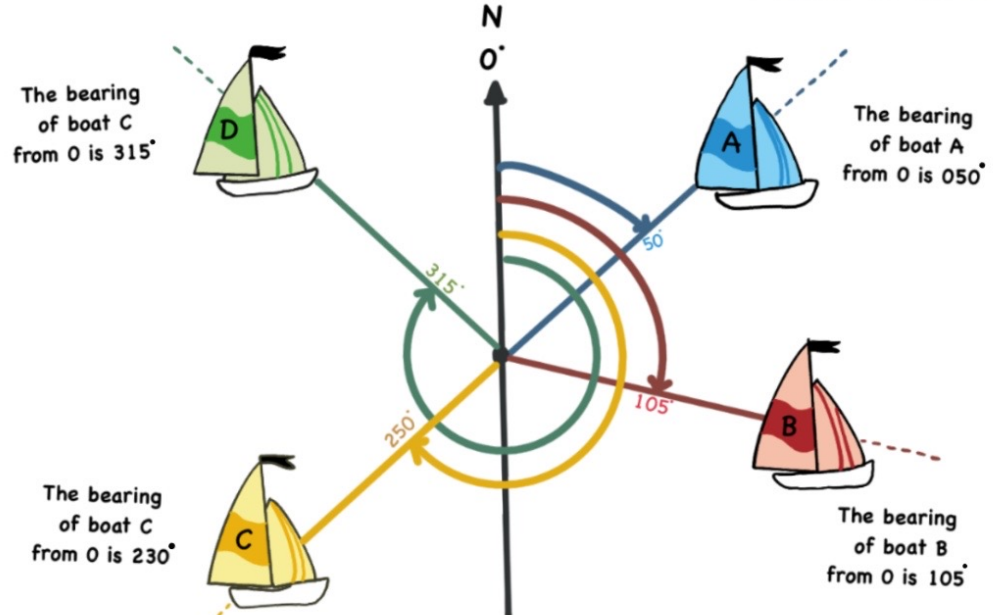
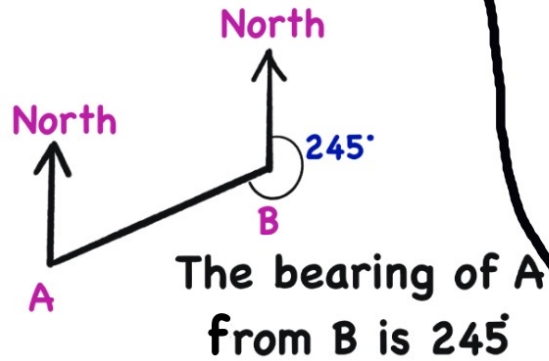
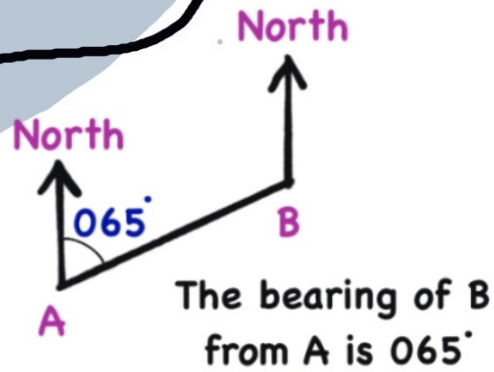
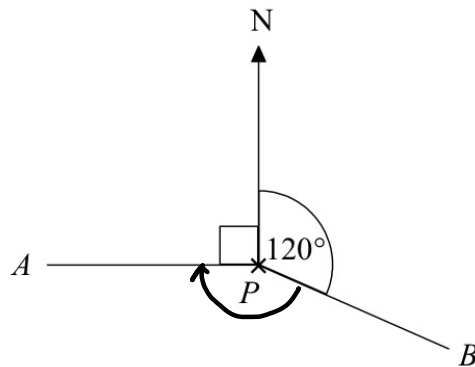


Bearing



1



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

..... 120°
(1)

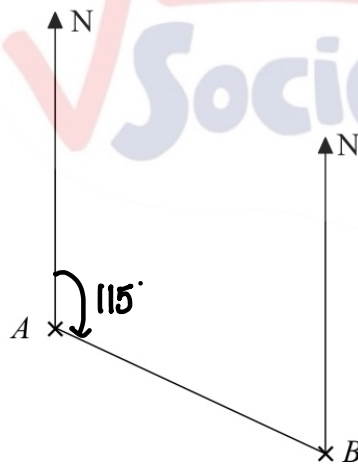
(b) Work out the bearing of A from P .

$$360^\circ - 90^\circ - 120^\circ = 150^\circ$$

..... 150°
(1)

(Total for Question 1 is 2 marks)

2



(a) Measure the bearing of B from A .

..... 115°
(1)

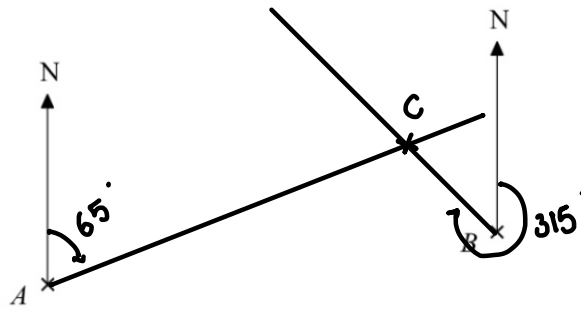
(b) Measure the bearing of A from B .

$$360^\circ - 65^\circ = 295^\circ$$

..... 295
(1)

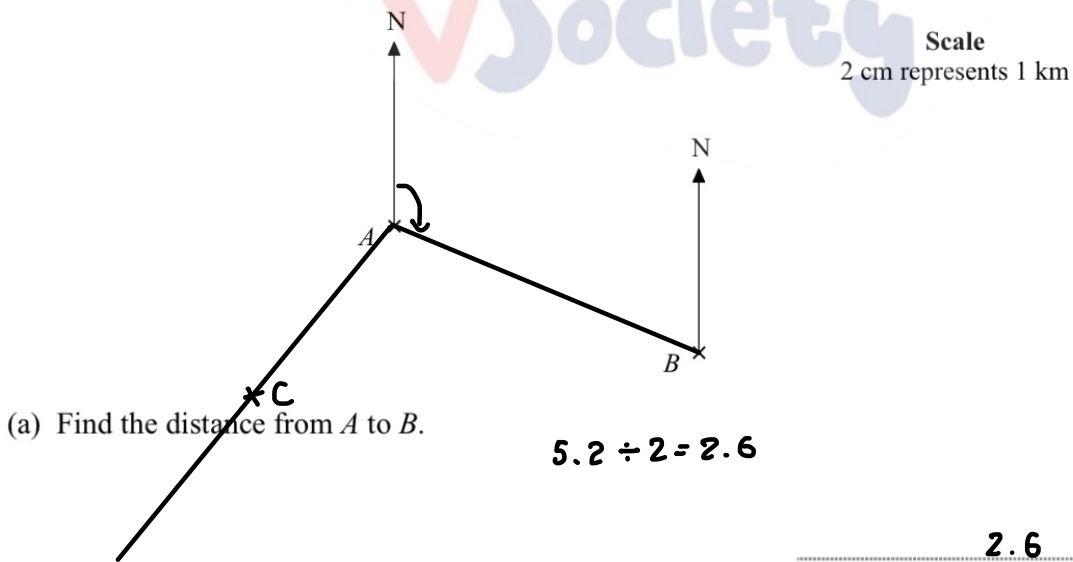
3 The accurate scale drawing shows the positions of boat *A* and boat *B*.

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 (×) the position of boat *C* on the diagram.

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



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

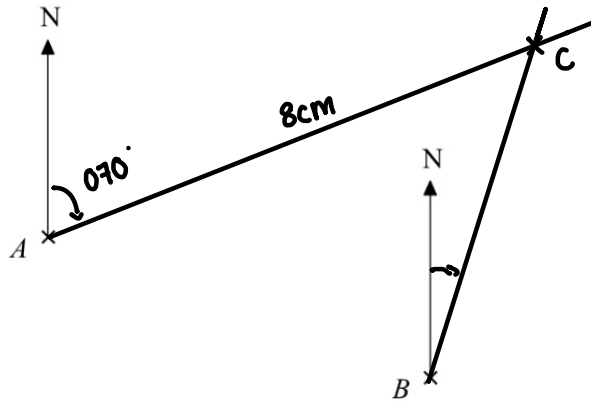
(b) Measure the bearing of *B* from *A*.

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 (×).

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°



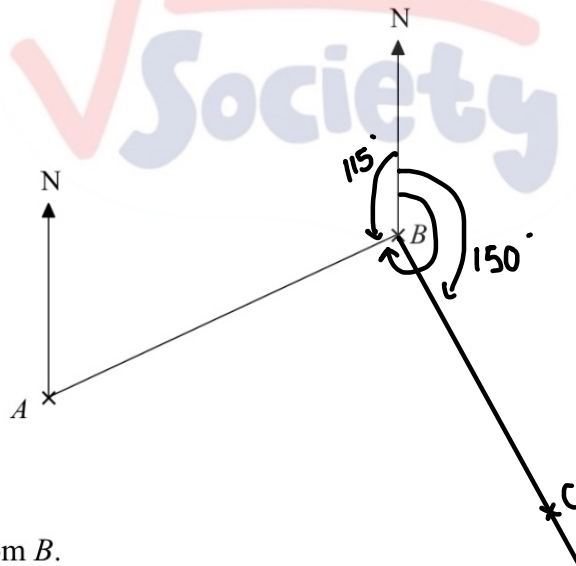
(a) Find the distance from B to C .

..... **5.3** c
(2)

(b) Find the bearing of C from B .

..... **022**
(2)

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 .

$$360^\circ - 115^\circ = 245^\circ$$

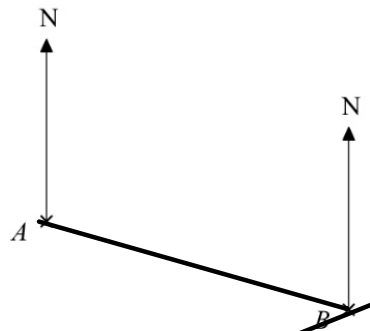
..... **245**
(1)

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

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

(2)

- 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*.

2.5 km

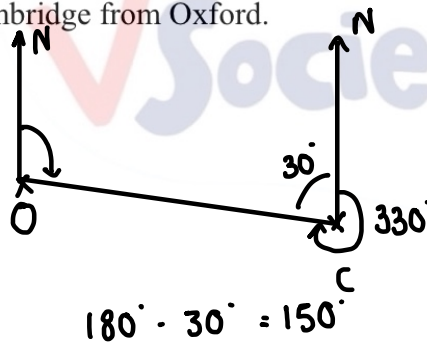
(1)

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

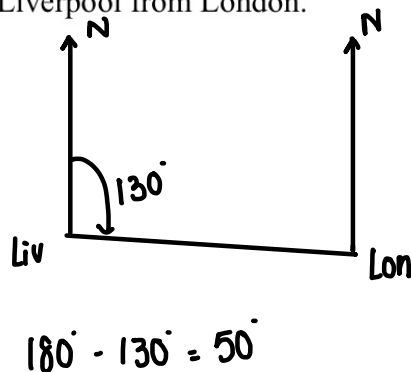
- (b) Draw the position of town *C*, with a cross (\times), on the diagram.

(2)

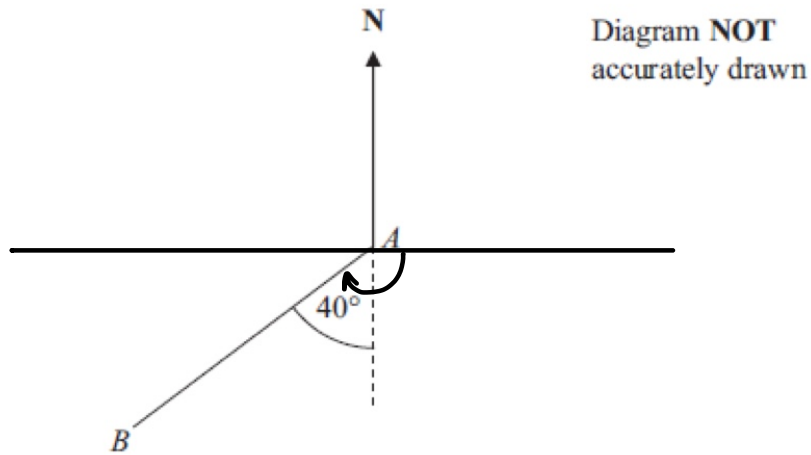
- 8 Oxford is on a bearing of 330° from Cambridge.
Find the bearing of Cambridge from Oxford.



- 9 The bearing of London from Liverpool is 130° .
Find the bearing of Liverpool from London.



1.



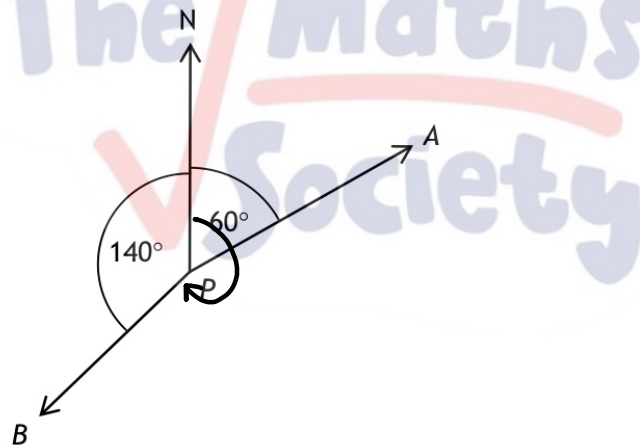
Work out the bearing of B from A .

$$90^\circ + 40^\circ = 130^\circ$$

..... 130°

(2 marks)

2.



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

..... 060°

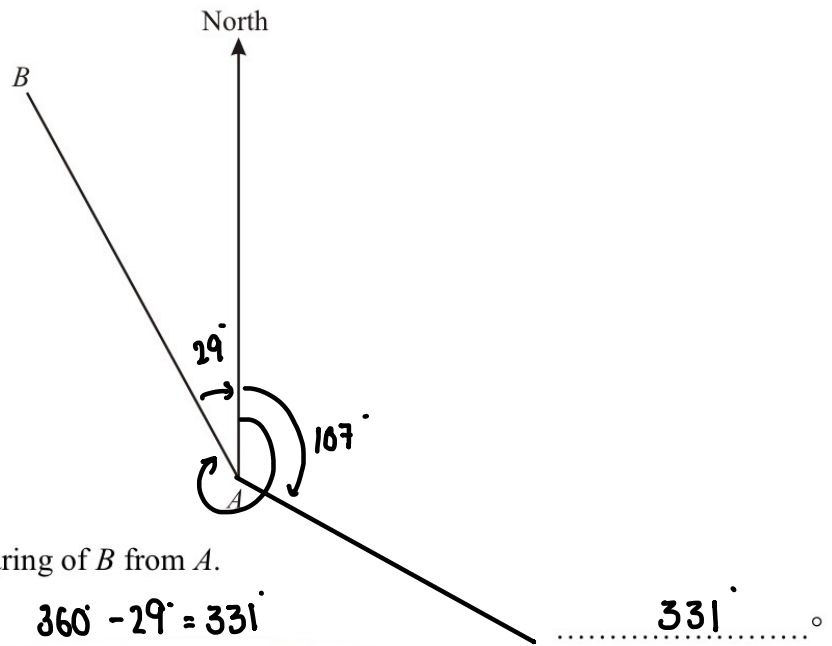
(b) Work out the bearing of B from P .

$$360^\circ - 140^\circ = 220^\circ$$

..... 220°

(3 marks)

3.



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

$$360^\circ - 29^\circ = 331^\circ$$

..... 331°

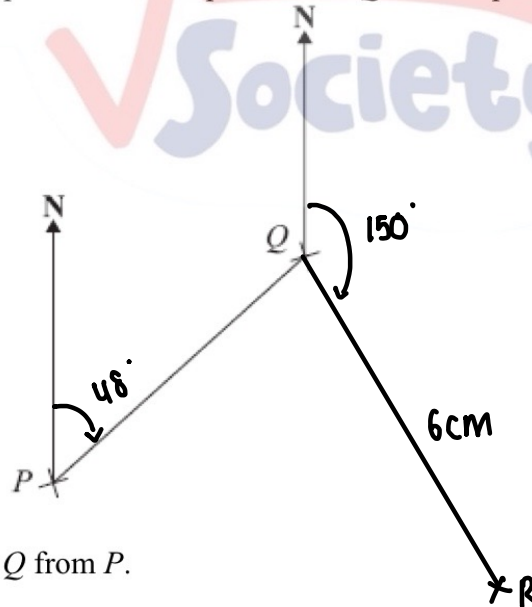
(1)

(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)

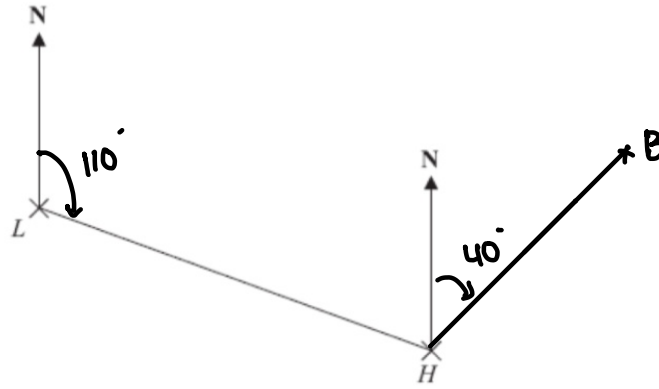
A rock R is on a bearing of 150° from Q .
On the map R is 6 cm from Q .

(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 .

$$6.9 \times 5 = 34.5$$

..... 34.5 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°

4cm

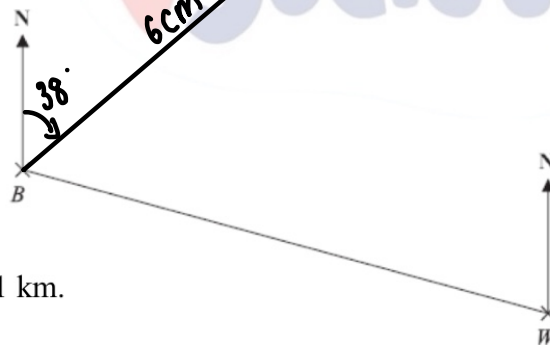
(c) On the diagram, mark the position of boat B with a cross (\times).

(2)

Label it B .

(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.

$$\frac{9.6}{4} = 2.4 \text{ km}$$

..... 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 .

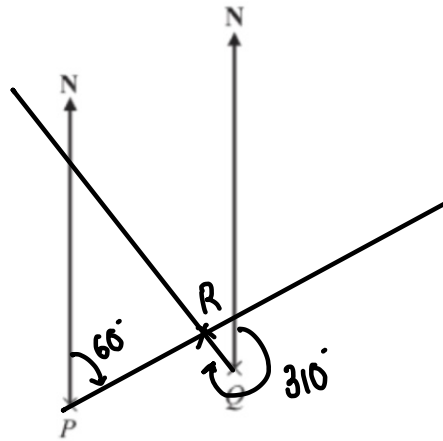
(b) On the diagram, mark A with a cross (\times).

(2)

Label the cross A .

(4 marks)

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

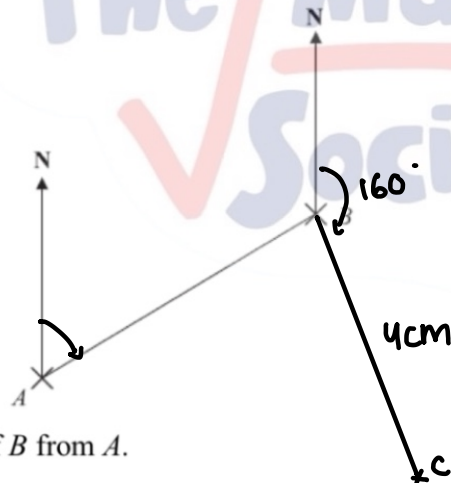


The bearing of a boat R from boat P is 060°
 The bearing of boat R from boat Q is 310°

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 .

..... 059^o
 (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 .

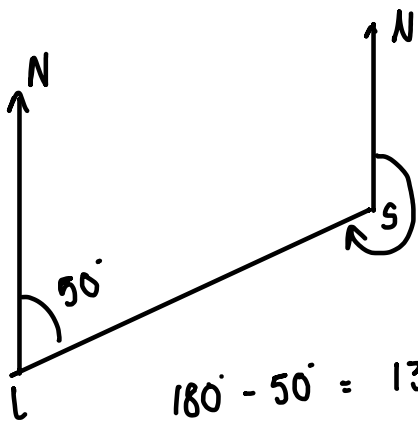
(2)
(3 marks)

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

Work out the bearing of the lighthouse from the ship.

..... 230^o

The Maths Society (2 marks)



$$180^\circ - 50^\circ = 130^\circ$$

$$360^\circ - 130^\circ = 230^\circ$$