QT - Bearings

1. The diagram shows the position of two ships, A and B.
A ship C is on a bearing of 065⁰ from ship A.
Ship C is also on a bearing of 295⁰ from ship B.

(a) Draw an accurate diagram to show the position of ship C. Mark the position of ship C with a cross X. Label it C.

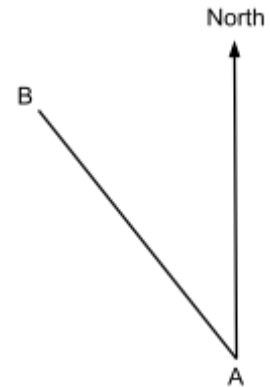Another ship D is on a bearing of 128⁰ from ship C.

(b) Work out the bearing of ship C from ship D.
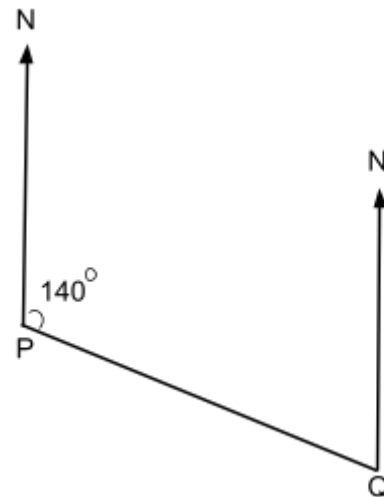
N

↑

A

N

↑

B

QT - Bearings

North

B

A

2. Measure and write down the bearing of B from A

3. The bearing of Q from P is 140⁰.
What is the bearing of P from Q?

The drawing is not to scale.

N

N

140°

P

Q

QT - Bearings

4. A, B, C and D are four towns.
B is 25 kilometres due East of A.
C is 25 kilometres due North of A.
D is 45 kilometres due South of A.
Calculate the bearing of B from C.   (4 marks)

5. The diagram shows the positions of two towns, Ancaster and Braham.
The bearing of Braham from Ancaster is b°
The bearing of Ancaster from Braham is 6b°
Calculate the 3 digit bearing of Ancaster from Braham.   (4 marks)
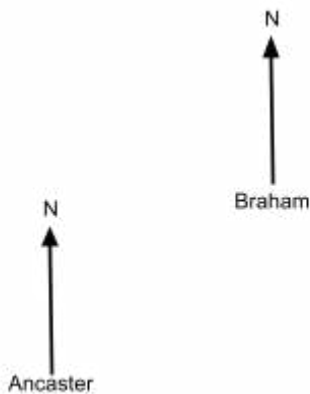
QT - Bearings

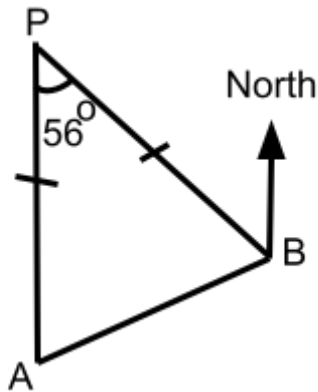6. A and B are ships. P is a port.
A is due South of P.
Angle APB = 56°
AP = BP
Work out the bearing of A from B. (3 marks)

7. The accurate scale drawing shows the positions of port P and a lighthouse L.
Aleena sails her boat from port P on a bearing of 070°
She sails for 1 ½ hours at an average speed of 12 km/h to a port Q. Find
(i)   the distance, in km, of port Q from lighthouse L,
(ii)   the bearing of port Q from lighthouse L. (4 marks)