

QT - Bearings



1. The diagram shows the position of two ships, A and B.

A ship C is on a bearing of 065° from ship A.

Ship C is also on a bearing of 295° 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 128° from ship C.

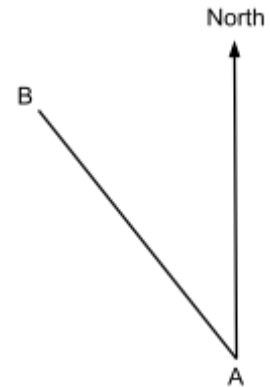
(b) Work out the bearing of ship C from ship D.



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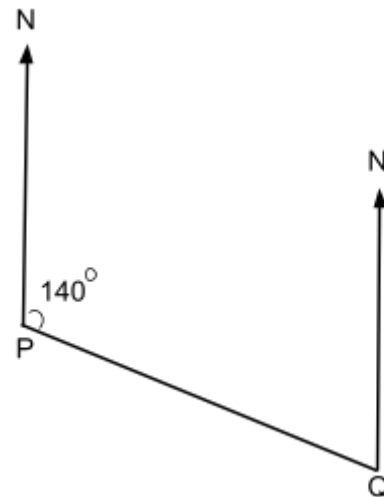


2. Measure and write down the bearing of B from A



3. The bearing of Q from P is 140° .
What is the bearing of P from Q?

The drawing is not to scale.



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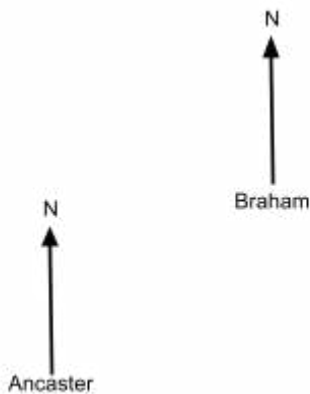


4. A, B, C and D are four towns.
B is 25 kilometres due East of A.
C is 25 kilometres due North of A.
D is 45 kilometres due South of A.
Calculate the bearing of B from C.

(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 $6b^\circ$
Calculate the 3 digit bearing of Ancaster from Braham.

(4 marks)



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6. A and B are ships. P is a port.

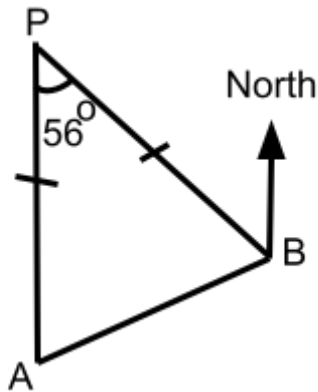
A is due South of P.

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 $1\frac{1}{2}$ 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)



Scale: 1cm = 4km