

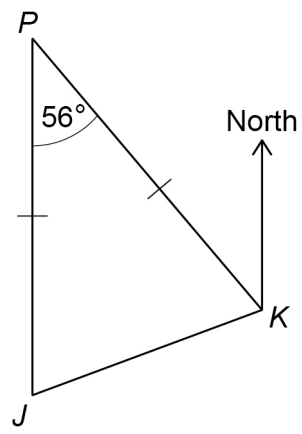
- 1
- J* and *K* are ships.

P is a port.

J is due South of *P*.

Angle $JPK = 56^\circ$

$JP = KP$



Not drawn
accurately

Work out the bearing of *J* from *K*.

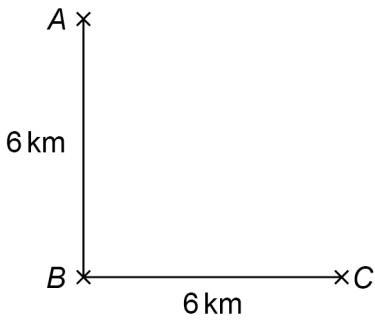
[3 marks]

Answer

°

2 (a) *B* is

6 km due South of *A*
and
6 km due West of *C*.



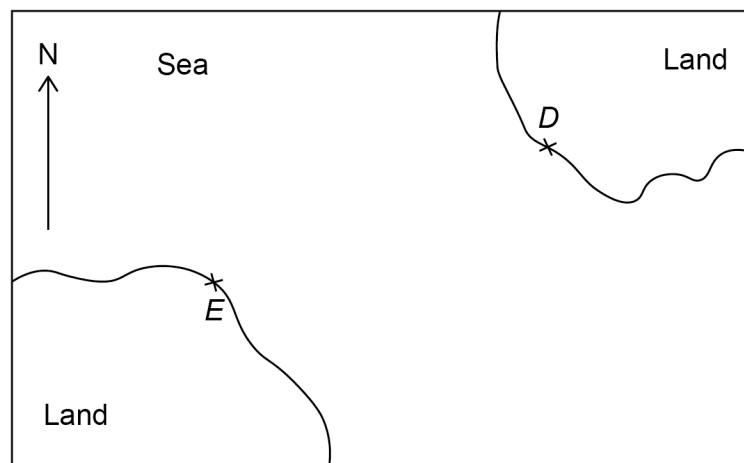
Not drawn
accurately

Work out the bearing of *A* from *C*.

[2 marks]

Answer _____ °

2 (b) Here is a scale drawing.



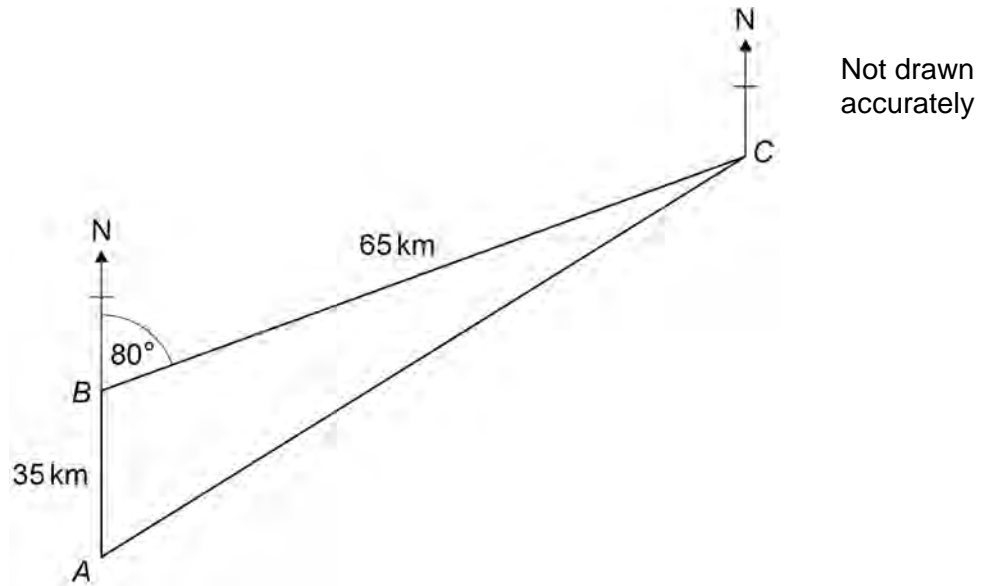
A ship is going to sail from D to E .

Mia works out that the ship needs to sail on a bearing of 068°

Why must Mia be wrong?

[1 mark]

3



A boat sails 35 km North from A to B .

From B the boat sails to C and then back to A .

- 3 (a)** Show that the distance the boat sails from C to A is 79 km to the nearest km
You **must** show your working.

[2 marks]

3 (b)

Work out the bearing of A from C.

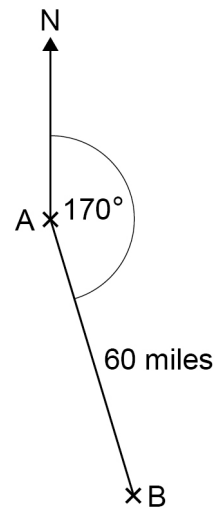
[4 marks]

Answer _____ °

4

B is 60 miles from A on a bearing of 170°

Not drawn
accurately



A ship sails from A on a bearing of 247°

It travels at a constant speed of 23 mph for $1\frac{1}{2}$ hours.

Is the ship now closer to B than it was when it left A?

You **must** show your working.

[5 marks]

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There are no vertical margin lines, text, or other markings on the page.