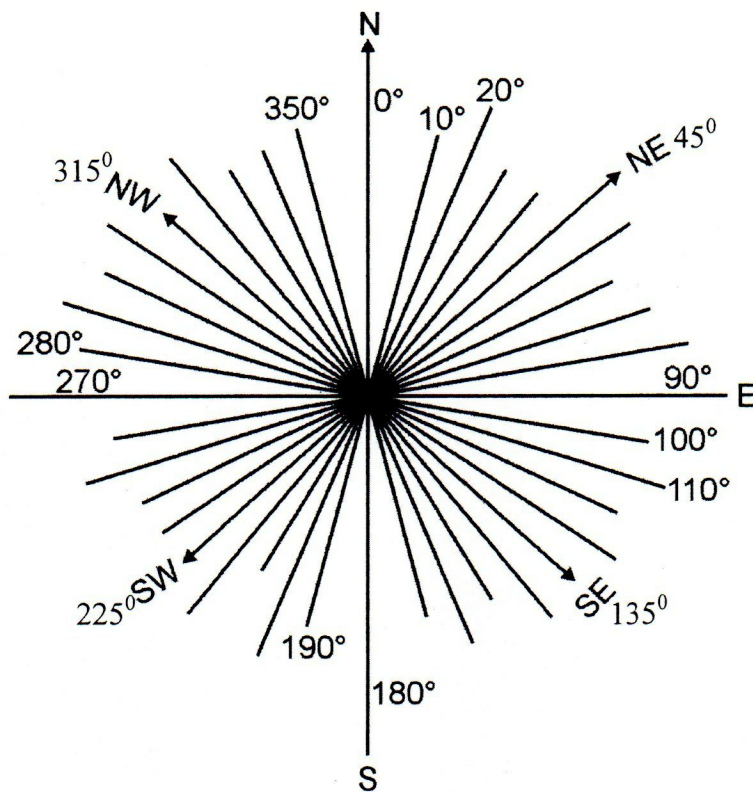


Bearings

They are a useful way of describing directions.

Directions are measured from north in a clockwise direction and usually written as three figure numbers. So a bearing of 45° will be 045° .

Direction Scale:



Example 1: The bearing of a ship from light house is 045° .
What is bearing of light house from ship.

<p>The diagram shows a lighthouse (L) and a ship (S). A line connects them. At the lighthouse (L), a North arrow (N) is shown. The angle between the North arrow and the line to the ship is 45°. At the ship (S), a North arrow (N) is shown. The angle between the North arrow and the line back to the lighthouse is 45°. A curved arrow indicates a 180° turn from the ship's perspective to find the back-bearing.</p>	<p>Sol:</p> <p>Required bearing $= 180^\circ + 45^\circ = 225^\circ$</p>
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Exercise:

Q.1 Which bearing is the same as:

(a) East

(b) South

(c) South-east

(d) South-west

(e) North west

(f) North east

(g) West

(h) North

Q.2 Which compass point in the same as

(a) 090°

(b) 270°

(c) 135°

(d) 045°

(e) 180°

(f) 315°

Q.3 Find the bearing of B from A if the bearing of A from B is:

(a) 090°

(b) 120°

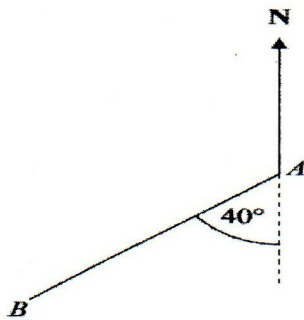
(c) 355°

(d) 203°

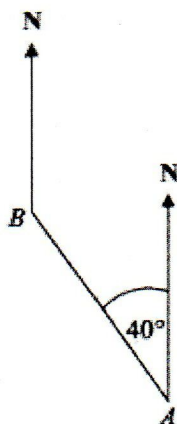
(e) 190°

(f) 270°

Q.4 Find the bearing of B from A from the given diagram



5) The diagram shows the positions of two ships, A and B.



Ali says

"The bearing of ship B from ship A is 040°".

Ali is wrong.

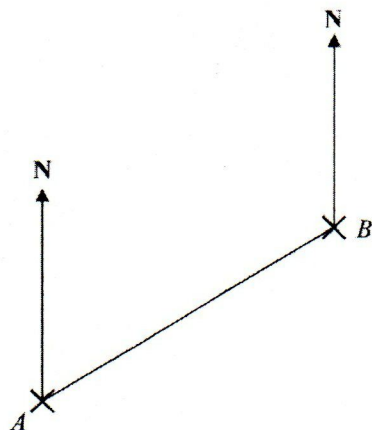
(a) Explain why.

.....

.....

(b) Work out the bearing of ship A from ship B.

6) The diagram shows the positions of two telephone masts, A and B, on a map.



(a) Measure the bearing of B from A.

..... °

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 (x) and label it C.