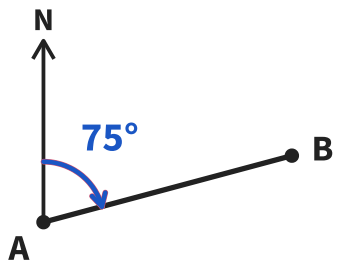
Bearings and Back Bearings

ANSWERS

1

Measure the bearing of B from A.



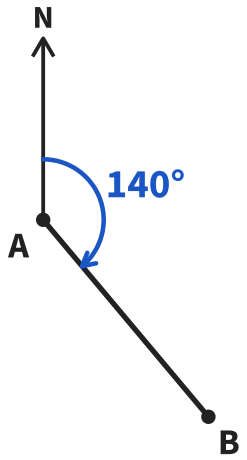
Angle 75 °

Bearing 0 7 5 °

Allow 2° either way.

2

Measure the bearing of B from A.



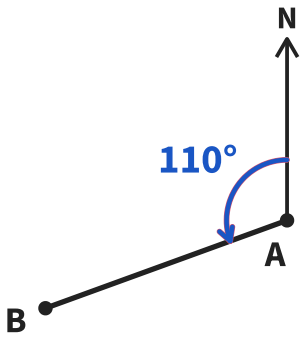
Angle 140 °

Bearing 1 4 0 °

Allow 2° either way.

3

Measure the bearing of B from A.



Angle 110 ° anticlockwise

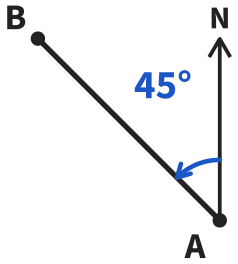
360° − 110 °

Bearing 2 5 0 °

Allow 2° either way.

4

Measure the bearing of B from A.



Angle 45 ° anticlockwise

360° − 45 °

Bearing 3 1 5 °

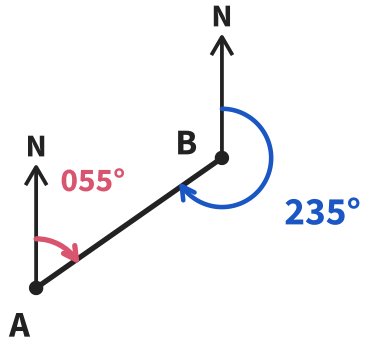
Allow 2° either way.

Bearings and Back Bearings

ANSWERS

5

The bearing of B from A is 055°. Work out the bearing of A from B.

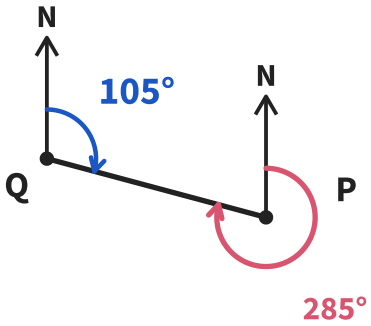


055° is under 180°, so add 180°.

Bearing 2 3 5 °

6

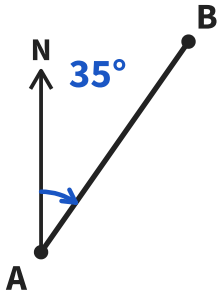
The bearing of Q from P is 285°. Work out the bearing of P from Q.



Bearing 1 0 5 °

7

Kai says the bearing of B from A is 145°. Explain why he is wrong, then measure it.



B is between North and East, so

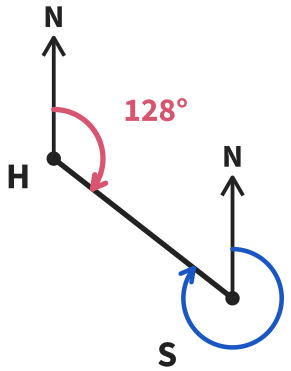
less than 090°

Bearing

035°

8

A ship sails from harbour H on a bearing of 128°. What bearing takes it straight back?



Working

128° + 180° = 308°

Bearing

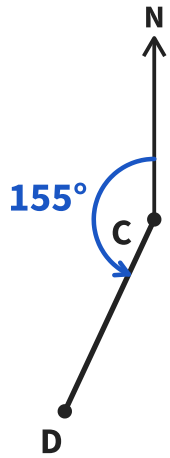
308°

Bearings and Back Bearings *further practice*

ANSWERS

9

Measure the bearing of D from C.



Anticlockwise angle

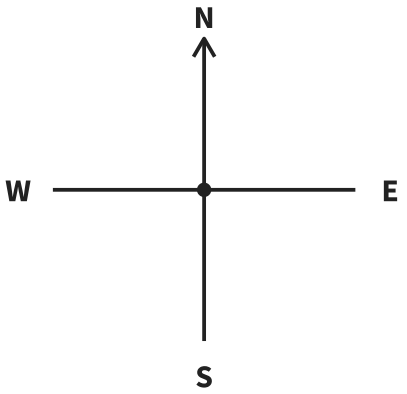
155°

Bearing

205°

10

Write the bearing of each direction with three figures.



East

090°

South

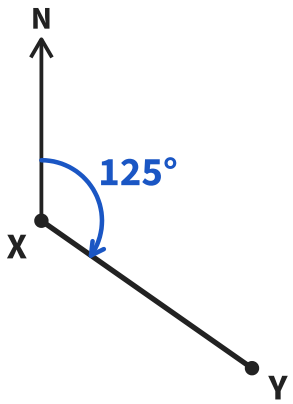
180°

West

270°

11

Measure the bearing of Y from X. Then work out the bearing of X from Y.



Y from X

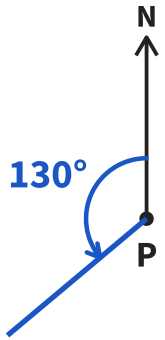
125°

X from Y

305°

12

Draw a line from P on a bearing of 230°.



Anticlockwise angle

130°

Bearings and Back Bearings *further practice*

ANSWERS

13

A plane flies from an airport on a bearing of 145°. It turns and flies straight back. On what bearing does it fly back?

Working

$145° + 180° = 325°$

Bearing

$325°$

14

Two boats leave a harbour. One sails on a bearing of 095°, the other on 275°. Mo says they sail in opposite directions. Is he right? Show how you know.

Working

$95° + 180° = 275°$

Answer

Yes, they are $180°$ apart.

15

A tree T is due East of a gate G. What is the bearing of the gate from the tree?

T from G

$090°$

G from T

$270°$

16

The bearing of L from K is 200°. Lily says the bearing of K from L is 380°. Explain what Lily has done wrong. Then find the right bearing.

Lily's mistake

$380°$ is more than $360°$: take away $180°$

Bearing

$020°$