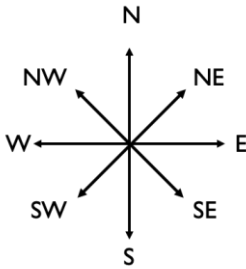


Angles and Bearings

Name _____

1 Is each statement true or false? Tick your answers.



Turning clockwise, the angle between North and West is 270°

True

False

Turning anticlockwise, the angle between West and North-West is 45°

2 marks

2 Work out the bearing of A from B.

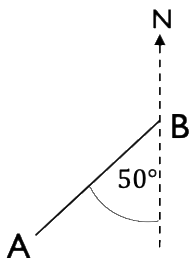


Diagram not drawn accurately

_____°

1 mark

Work out the bearing of D from C.

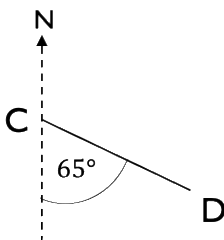
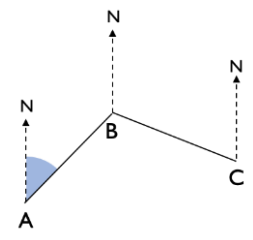
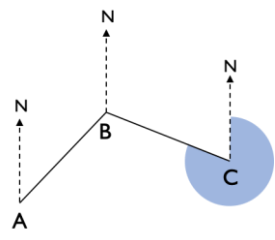
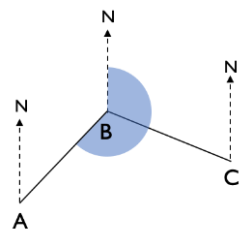
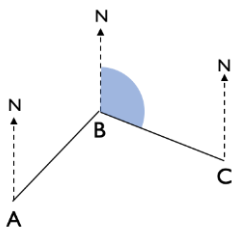


Diagram not drawn accurately

_____°

1 mark

3 Match each diagram to the bearing described.



The bearing
of A from B

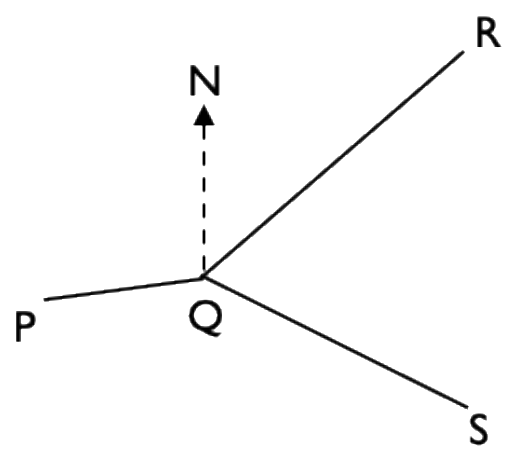
The bearing
of B from A

The bearing
of B from C

The bearing
of C from B

2 marks

4



Measure the bearing of R from Q.

_____ °

Measure the bearing of S from Q.

_____ °

Measure the bearing of P from Q.

_____ °

3 marks

- 5 A helicopter flies due West from its base for 8 kilometres to rescue an injured person.
It then flies 6 kilometres due North to the nearest hospital.

Draw a scale diagram of the journey using the scale 1 cm to represent 2 km.

●
Base



2 marks

What is the shortest distance the helicopter needs to fly to return to base?

_____ km



2 marks

Find the bearing of the base from the hospital.

_____°



1 mark

6

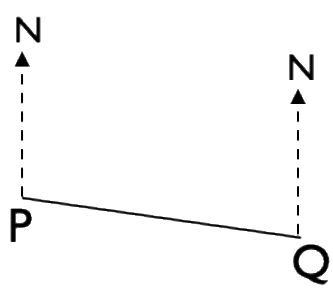


Diagram not
drawn
accurately

The bearing of Q from P is 098°
Show this on the diagram.

Which calculation works out the bearing of P from Q?
Circle your answer.

$360 - 82 = 278^\circ$

$360 - 98 = 262^\circ$

Explain your reasoning.

1 mark

1 mark

1 mark

7

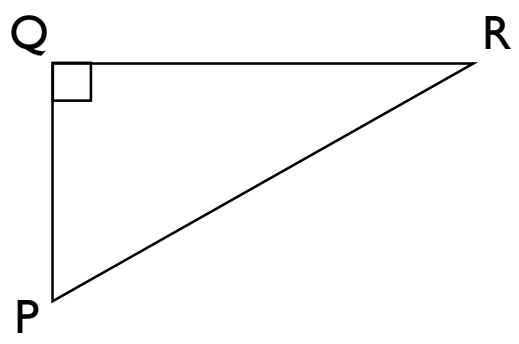


Diagram not
drawn
accurately

The distance PR is 300 metres.
The bearing of R from P is 072°

Show this information on the diagram.

Use trigonometry to calculate the distance QR.

1 mark

_____ m

2 marks