

Bearings

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **22**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. You will need a ruler and protractor. Diagrams marked 'accurate' are drawn to scale: print at 100%.

- 1** (a) The bearing of C from D is 315°
Circle the direction of C from D .

[1 mark]

North-East

South-East

South-West

North-West

- (b) Town T is South-West of town S .
Write down the bearing of T from S .

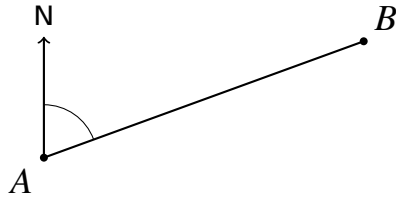
[1 mark]

Answer _____ degrees

- (c) The bearing of F from E is 045°
Nina says, " F is North-West of E ."
Is Nina correct?
Give a reason for your answer.

[1 mark]

- 2 The diagram shows two points, A and B .



Circle the bearing of B from A .

[1 mark]

070°

110°

250°

290°

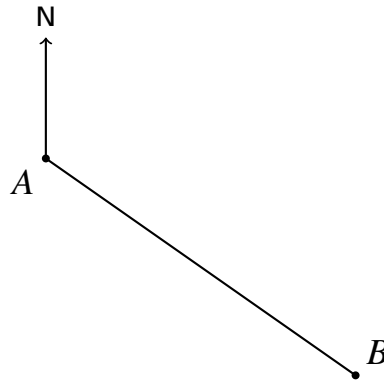
- 3 The bearing of Q from P is 060°
Work out the bearing of P from Q .

[2 marks]

Answer _____ degrees

4 The diagram is drawn accurately. It shows two points, A and B .

(a) Measure the bearing of B from A .



[1 mark]

Answer _____ degrees

(b) The scale of the diagram is 1 cm represents 2 km.
Work out the real distance from A to B .

[2 marks]

Answer _____ km

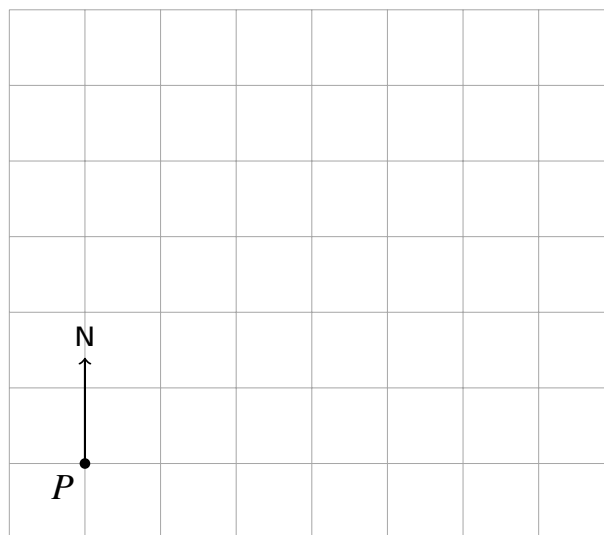
- 5 A ship leaves harbour H and sails 8 km on a bearing of 040°



The scale is 1 cm represents 2 km.
Mark the position of the ship with a cross ($\times$).

[2 marks]

- 6 A campsite C is 250 metres due East of the car park P .
A well W is North-West of C .
 W is due North of P .
Mark C and W on the centimetre grid.
Use a scale of 1 centimetre represents 50 metres.



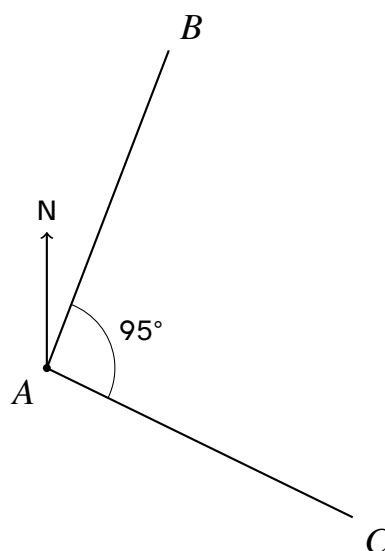
[2 marks]

- 7 Tom is measuring the bearing of A from B .
He measures an angle of 60° anticlockwise from North at B .
He says the bearing of A from B is 060°

Explain the mistake Tom has made.

[1 mark]

- 8 The diagram shows points A , B and C .



Not drawn accurately

The 3-figure bearing of B from A is 021°
Work out the 3-figure bearing of C from A .

[2 marks]

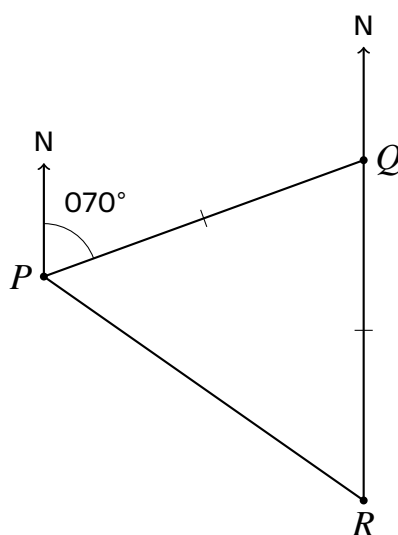
Answer _____ degrees

- 9 The bearing of B from A is 050°
 The bearing of C from B is 140°
 Work out the size of angle ABC .

[3 marks]

Answer _____ degrees

- 10 A yacht sails from port P to a buoy Q on a bearing of 070°
 It then sails due South from Q to a lighthouse R .
 The distance from Q to R is the same as the distance from P to Q .



Not drawn accurately

Work out the bearing of R from P .

[3 marks]

Answer _____ degrees