

GCSE Mathematics

F/H

Bearings

GCSE Maths Practice

Total Marks	Time	Questions
42	42 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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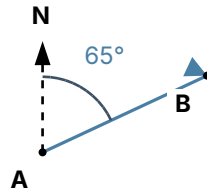
Edexcel-style questions

Q1 

Grade 4

Edexcel style

The diagram shows the angle between north and the direction of B, measured clockwise at A. Write down the bearing of B from A as a three-figure bearing.

*Diagram NOT accurately drawn*

Answer _____

teachably

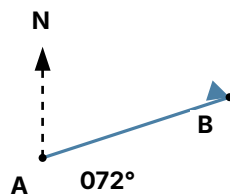
[1 mark]

Q2 

Grade 4

Edexcel style

The bearing of B from A is 072° , as shown. Find the bearing of A from B.

*Diagram NOT accurately drawn*

Answer _____

teachably

[2 marks]

Q3

Grade 5

Edexcel style

The bearing of B from A is 040° . The angle BAC is 25° , measured clockwise from AB, as shown. Find the bearing of C from A.

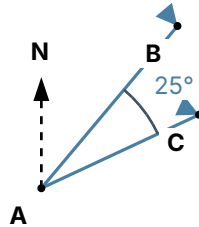


Diagram NOT accurately drawn

Answer _____

Q4

Grade 5

Edexcel style

A ship sails from port A to point B on a bearing of 060° . It then sails from B to point C on a bearing of 140° , as shown. Find the angle ABC.

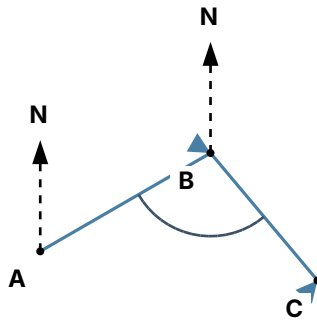


Diagram NOT accurately drawn

Answer _____

Q5

Grade 6

Edexcel style

A ship is sailing on a bearing of 050° . The captain turns the ship anticlockwise (to port) until it is sailing on a bearing of 320° . Find the angle the ship turns through.

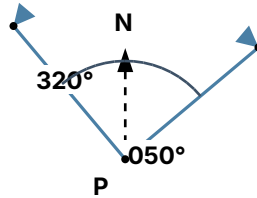


Diagram NOT accurately drawn

Answer _____

AQA-style questions

Q6 

Grade 4

AQA style

The diagram shows the angle between north and the direction of B, measured clockwise at A. Write down the bearing of B from A as a three-figure bearing.



Diagram NOT accurately drawn

Answer _____

Q7

Grade 5

AQA style

The bearing of B from A is 205° , as shown. Find the bearing of A from B.

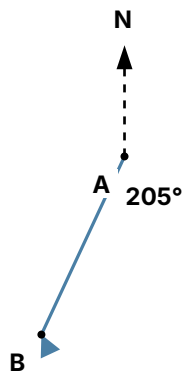


Diagram NOT accurately drawn

Answer _____

Q8

Grade 5

AQA style

The bearing of B from A is 330° . The angle BAC is 50° , measured clockwise from AB, as shown. Find the bearing of C from A.

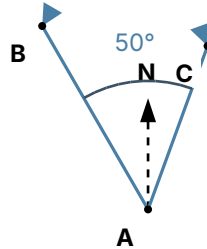


Diagram NOT accurately drawn

Answer _____

Q9

Grade 5

AQA style

A ship sails from port A to point B on a bearing of 150° . It then sails from B to point C on a bearing of 040° , as shown. Find the angle ABC.

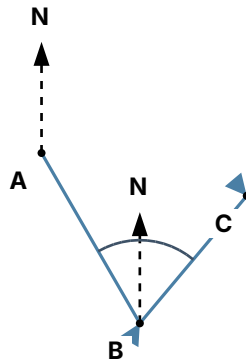


Diagram NOT accurately drawn

Answer _____

Q10

Grade 6

AQA style

From a lighthouse C, the bearing of boat A is 150° and the bearing of boat B is 230° , as shown. The two boats are the same distance from the lighthouse ($CA = CB$). Find the bearing of B from A.

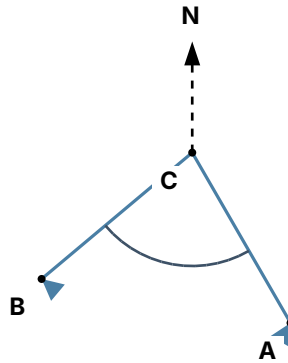


Diagram NOT accurately drawn

Answer _____

OCR-style questions

Q11 

Grade 4

OCR style

B is south-east of A, as shown. Write down the bearing of B from A as a three-figure bearing.

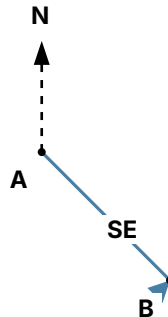


Diagram NOT accurately drawn

Answer _____

teachably

[1 mark]

Q12 

Grade 4

OCR style

The bearing of B from A is 095° , as shown. Find the bearing of A from B.

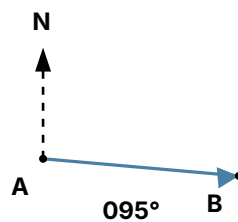


Diagram NOT accurately drawn

Answer _____

teachably

[2 marks]

Q13

Grade 5

OCR style

The bearing of B from A is 095° . The angle BAC is 40° , measured anticlockwise from AB, as shown. Find the bearing of C from A.

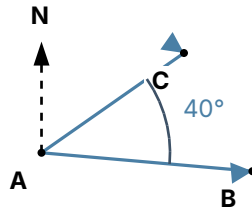


Diagram NOT accurately drawn

Answer _____

Q14

Grade 6

OCR style

A ship sails from port A to point B on a bearing of 200° . It then sails from B to point C on a bearing of 010° , as shown. Find the angle ABC.

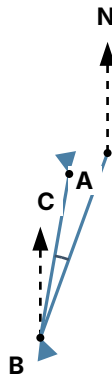


Diagram NOT accurately drawn

Answer _____

Q15

Grade 6

OCR style

A hiker walks from P to Q on a bearing of 070° , then continues walking from Q to R, also on a bearing of 070° , as shown. What can you conclude about the points P, Q and R? Give a reason.

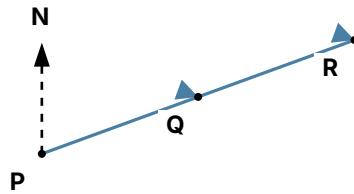


Diagram NOT accurately drawn

Answer _____

Teachably-style questions**Q16** 

Grade 4

Teachably style

B is north-west of A, as shown. Write down the bearing of B from A as a three-figure bearing.

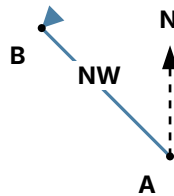


Diagram NOT accurately drawn

Answer _____

teachably

[1 mark]

Q17

Grade 5

Teachably style

The bearing of B from A is 310° , as shown. Find the bearing of A from B.

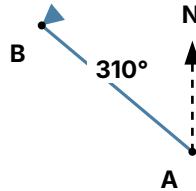


Diagram NOT accurately drawn

Answer _____

Q18

Grade 5

Teachably style

The bearing of B from A is 015° . The angle BAC is 60° , measured anticlockwise from AB, as shown. Find the bearing of C from A.

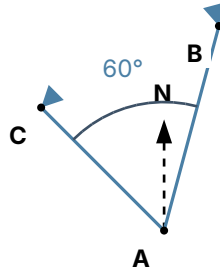


Diagram NOT accurately drawn

Answer _____

Q19

Grade 6

Teachably style

A ship sails from port A to point B on a bearing of 310° . It then sails from B to point C on a bearing of 250° , as shown. Find the angle ABC.

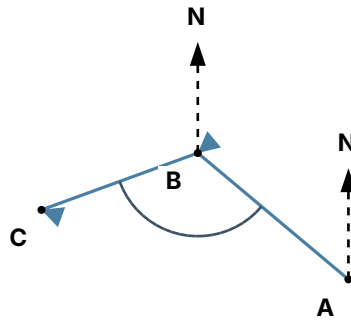


Diagram NOT accurately drawn

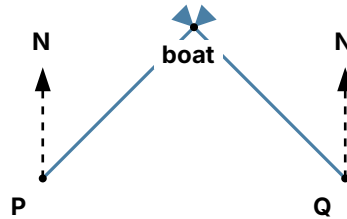
Answer _____

Q20

Grade 6

Teachably style

Coastguard stations P and Q are 4 km apart, with Q due east of P. A distress signal is picked up: the bearing of the boat from P is 045° , and the bearing of the boat from Q is 315° , as shown. Explain, without calculating any distance, why the boat must lie on the perpendicular bisector of PQ.

*Diagram NOT accurately drawn*

Answer _____

teachably

[2 marks]

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