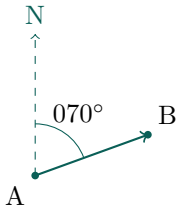
Bearings

GCSE Mathematics • **Foundation Tier** • Grades 4–6 • Non-calculator

Name: _____ Class: _____ Total: _____ / 56

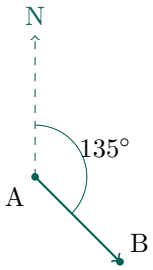
Show all your working. Marks are given for correct method as well as the final answer.

1. Write down the bearing of B from A. **[1 mark]**



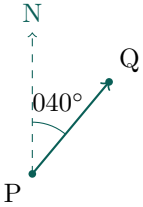
Answer: _____

2. Write down the bearing of B from A. **[1 mark]**



Answer: _____

3. Write down the bearing of Q from P. **[1 mark]**



Answer: _____

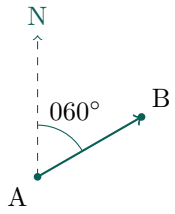
4. Write down the three-figure bearing for due east. **[1 mark]**

Answer: _____

5. Write down the three-figure bearing for due south-west. **[2 marks]**

Answer: _____

6. The bearing of B from A is 060°. Work out the bearing of A from B. **[2 marks]**



Answer: _____

7. The bearing of Y from X is 250°. Work out the bearing of X from Y. **[2 marks]**

Answer: _____

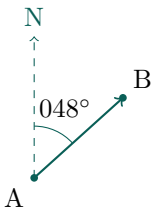
8. The bearing of B from A is 115°. Work out the bearing of A from B. **[2 marks]**

Answer: _____

9. The bearing of D from C is 310°. Work out the bearing of C from D. **[3 marks]**

Answer: _____

10. The bearing of B from A is 048°. Work out the angle between AB and due east. **[3 marks]**

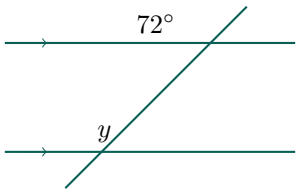


Answer: _____

11. A ship sails on a bearing of 125°. Work out the angle turned to head due south. **[3 marks]**

Answer: _____

12. The north lines at A and B are parallel. The bearing of B from A is 072°. Work out the angle marked y at B. **[3 marks]**



Answer: _____

13. A plane flies on a bearing of 200° then turns 90° clockwise. Work out its new bearing. **[2 marks]**

Answer: _____

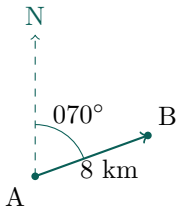
14. A walker heads on a bearing of 340° then turns 50° clockwise. Work out the new bearing. **[3 marks]**

Answer: _____

15. Explain why a bearing of 000° and a bearing of 360° point the same way. **[2 marks]**

Answer: _____

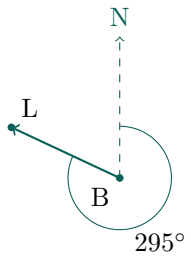
16. A boat sails 8 km on a bearing of 070°.



(a) Write down the bearing of the start from the finish. **[2 marks]**

(b) The boat then sails due south. Work out the angle it turns through. **[3 marks]**

17. The bearing of a lighthouse L from a boat B is 295°.



(a) Work out the bearing of B from L. **[2 marks]**

(b) Work out the angle between BL and due west. **[3 marks]**

Answer: _____

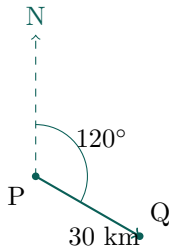
18. A plane flies from A to B on a bearing of 048°, then from B to C on a bearing of 138°.

(a) Work out the angle ABC. **[4 marks]**

(b) Write down what kind of angle ABC is. **[1 mark]**

Answer: _____

19. A ship leaves port P on a bearing of 120° and sails 30 km to Q.



(a) Write down the bearing of P from Q. **[2 marks]**

(b) On a 1:500 000 map, work out how far apart they are drawn, in centimetres. **[3 marks]**

20. Three towns lie so that B is due east of A, and the bearing of C from A is $035°$.

(a) Work out the angle BAC. **[3 marks]**

(b) The bearing of C from B is $305°$. Work out the bearing of B from C. **[2 marks]**

Answer: _____

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