



## Foundation / Higher Tier

# Bearings

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

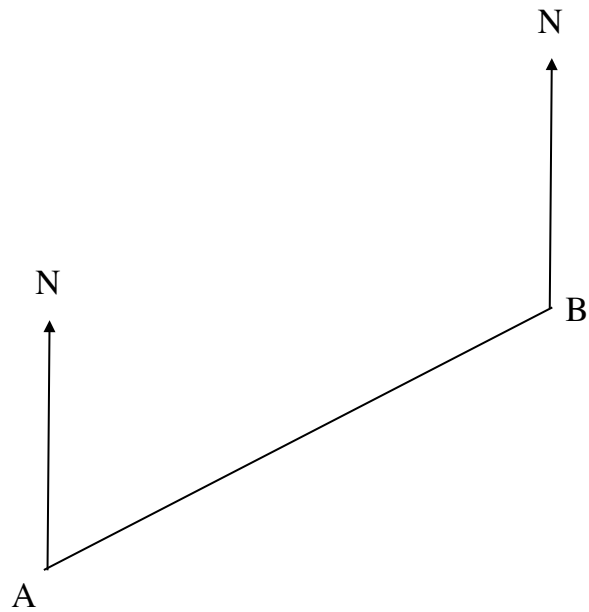
### Information

- The marks for **each** question are shown in brackets- *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
  - Keep an eye on the time.
  - Try to answer every question.
  - Check your answers if you have time at the end.
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1. A and B represent two places on a map.



a. Measure the bearing of A from B

.....  
(1)

b. C lies 2cm from A on a bearing of  $082^\circ$  from A.

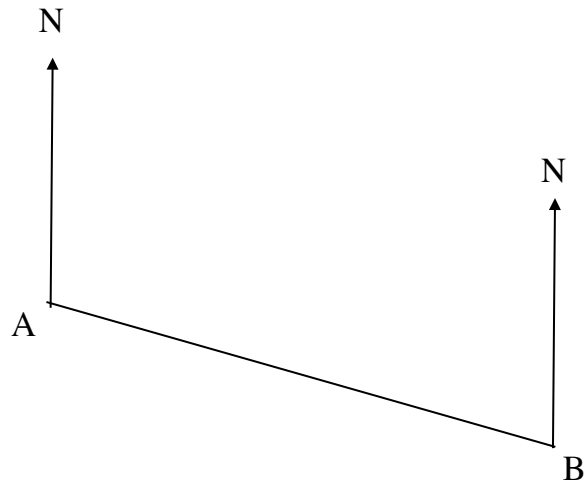
On the diagram, mark C with a cross and label it C.

(2)

(Total for Question 1 is 3 marks)

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2. A and B represent two places on a map.



a. Measure the bearing of B from A

.....  
(1)

b. C lies 4 cm from A on a bearing of  $235^\circ$  from B.

On the diagram, mark C with a cross and label it C.

(2)

(Total for Question 2 is 3 marks)

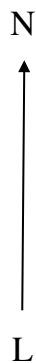
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3. The diagram shows the position of London.

Oxford is 50 miles away from London on a bearing of  $300^\circ$ .

Mark the position of Oxford on the diagram.

Scale: 1 cm represents 10 miles.



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**(Total for Question 3 is 2 marks)**

4. The diagram shows the position of Bristol.

Cardiff is 40 miles away from Bristol on a bearing of  $240^\circ$ .

Mark the position of Cardiff on the diagram.

Scale: 1cm represents 20 miles.



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**(Total for Question 4 is 2 marks)**

5. The accurate scale drawing shows the positions of lighthouse A and lighthouse B.

Lighthouse C is on a bearing of  $075^\circ$  from A.

Lighthouse C is on a bearing of  $300^\circ$  from B.

On the diagram, mark with a cross (×) the position of lighthouse C.



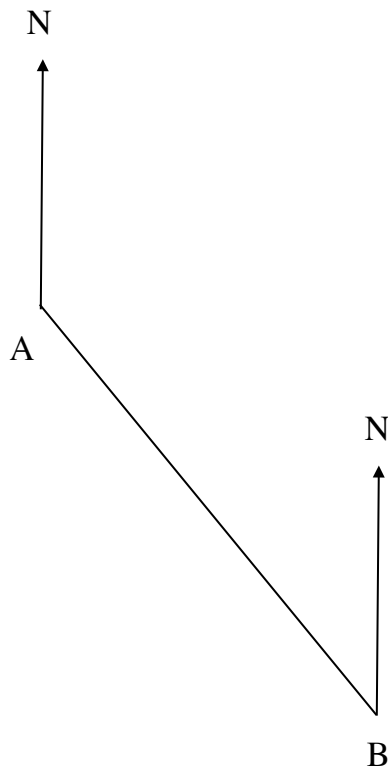
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(Total for Question 5 is 2 marks)

6. The diagram shows the position of two ships, A and B.

The bearing of B from A is  $125^\circ$ .

Calculate the bearing of A from B.



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(Total for Question 6 is 2 marks)

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7. Leeds is on a bearing of  $075^\circ$  from Sheffield.

Find the bearing of Sheffield from Leeds.

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(Total for Question 7 is 2 marks)

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8. Bristol is on a bearing of  $210^\circ$  from Bath.

Find the bearing of Bath from Bristol.

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**(Total for Question 8 is 2 marks)**

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9. Liverpool is on a bearing of  $145^\circ$  from Manchester.

Find the bearing of Manchester from Liverpool.

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**(Total for Question 9 is 2 marks)**

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