


Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Pages	Mark
3	
4 – 5	
6 – 7	
8 – 9	
TOTAL	

GCSE Mathematics (Non-calculator Paper)

Practice Paper Style Questions – Topic: Bearings (Foundation Tier)

<p>For this paper you must have:</p> <ul style="list-style-type: none"> • black pen • HB pencil • ruler (with cm & mm) • rubber • protractor • compass • pencil sharpener 	
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Time allowed

- 1 hour

Instructions

- Use **black ink** or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is **25**.
The quality of your written communication is specifically assessed in questions indicated with an asterisk (*)
- You may ask for more answer paper and graph paper.
These must be tagged securely to this answer booklet.
- A calculator must NOT be used.

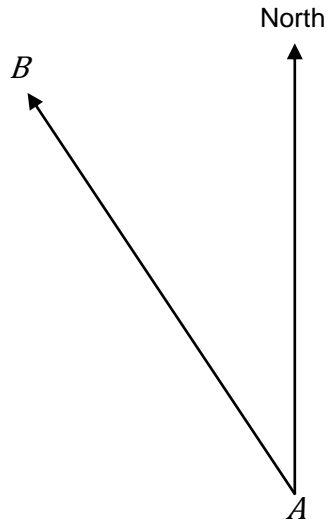
Advice

- Read each question carefully before you answer it.
- In all calculations, show clearly how you work out your answer.
- Check your answers if you have time at the end.

There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

1



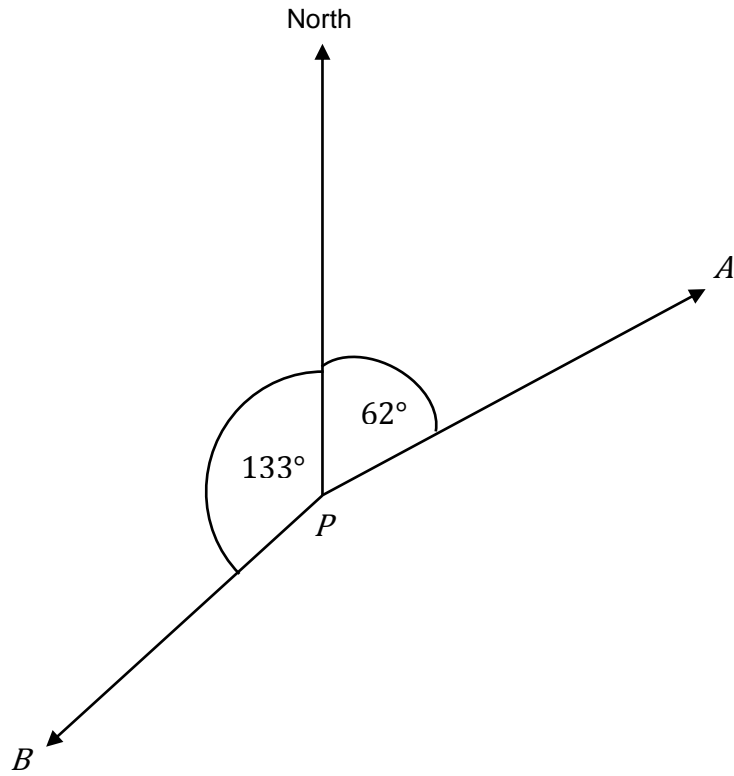
- (a) Measure and write down the bearing of B from A .

Answer° (1 mark)

- (b) On the diagram, draw a line on a bearing of 086° from A .

(1 mark)

2



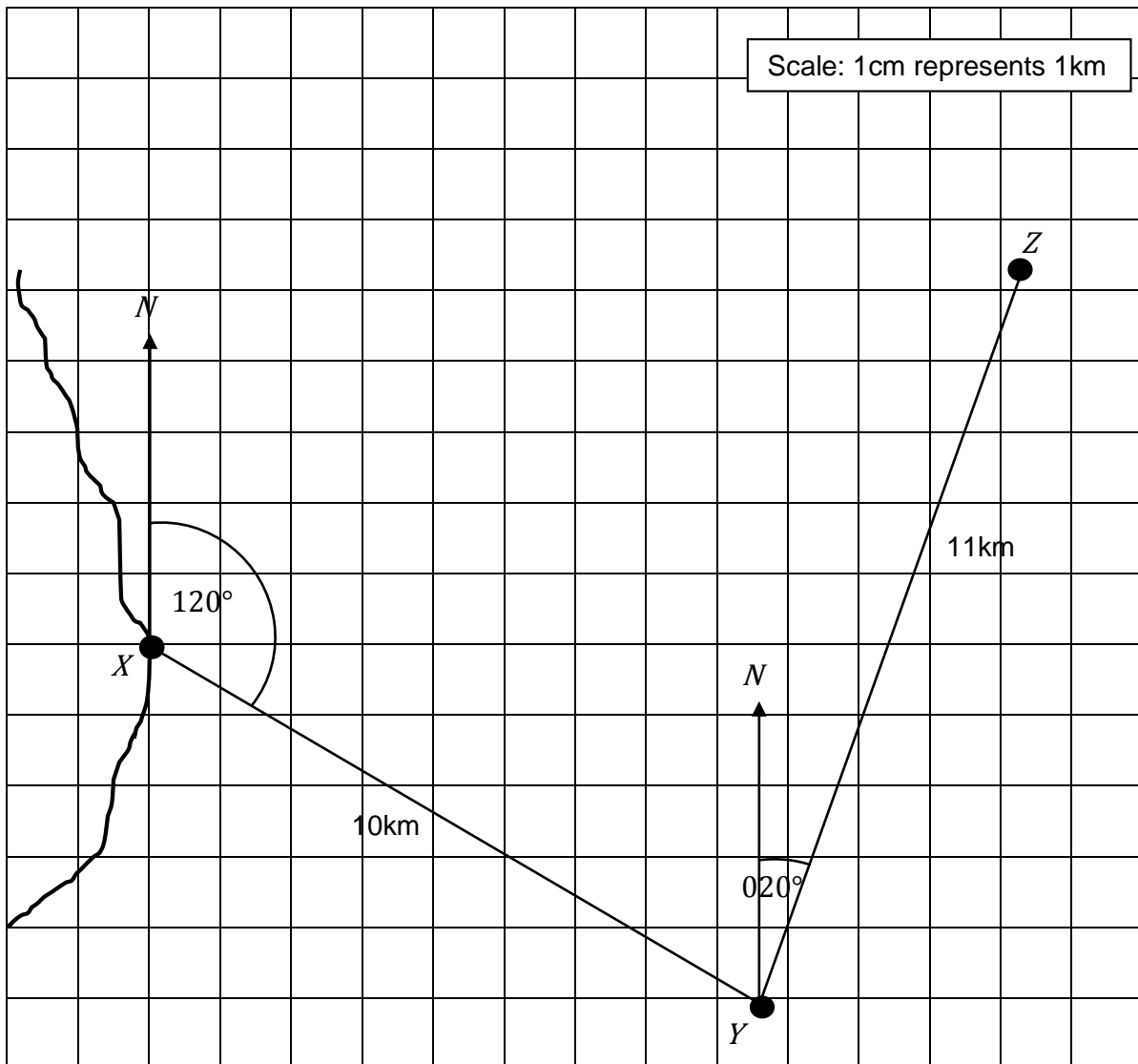
(a) Write down the bearing of A from P .

Answer $^\circ$ (1 mark)

(b) Work out the bearing of B from P .

Answer $^\circ$ (2 marks)

- 3 A ship leaves port X and travels 10km on a bearing of 120° to point Y .
The ship then turns and travels 11km on a bearing of 020° to point Z .
This journey is shown on the scale drawing below:



The ship then turns and travels directly back from Z to X .

Use a ruler and protractor to work out the distance and bearing of the journey from Z to X .

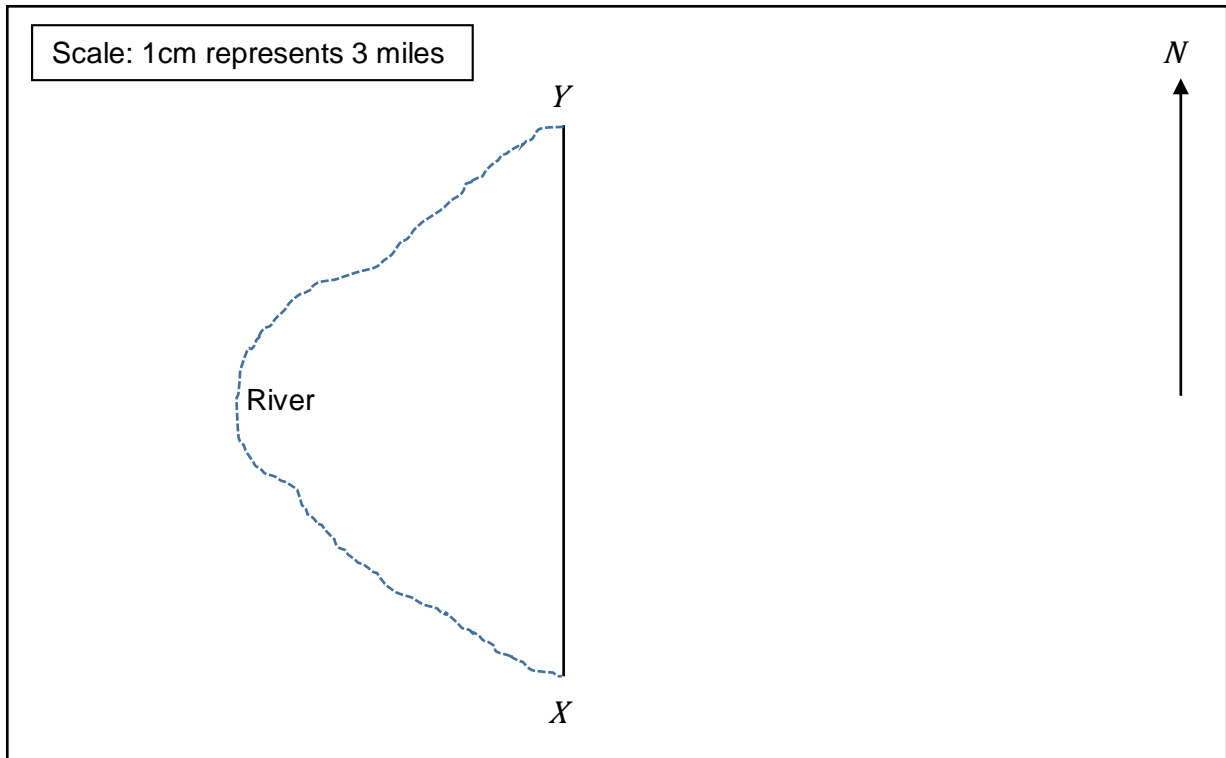
Distancekm....

Bearing $^\circ$

(3 marks)

- 4 An aeroplane flies due North from X to Y .

The distance from X to Y on the river is 36 miles



- (a) How much further is it from X to Y on the river than by aeroplane?

Answermiles.... (3 marks)

- (b) Z is 21 miles north-east of X .

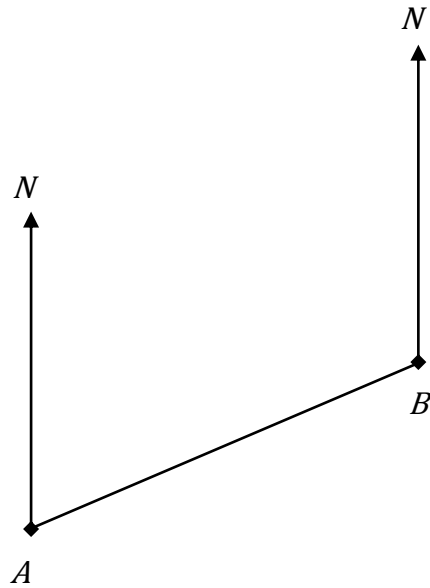
- (i) Write down the three-figure bearing of Z from X .

Answer $^{\circ}$ (1 mark)

- (ii) Mark with a cross and label point Z on the diagram.

(2 marks)

- 5 The diagram shows the positions of two electricity pylons, A and B on a map:



- (a) Measure the bearing of B from A .

Answer° (1 mark)

Another pylon C is on a bearing of 140° from B .

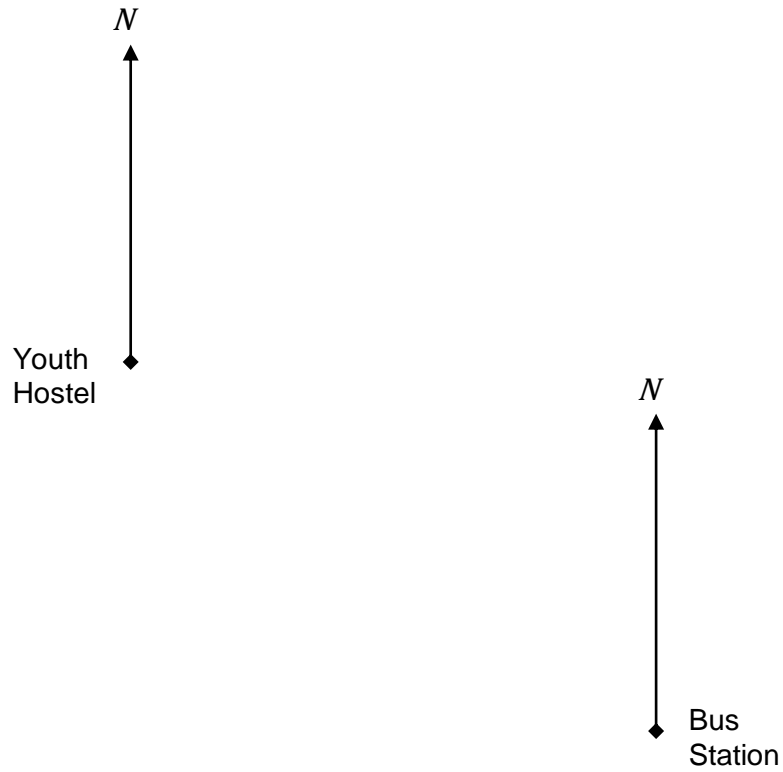
On the map, C is 5cm from B .

- (b) Mark the position of C with a cross (\times) and label it C .

(2 marks)

6 The diagram shows part of a map.

It shows the positions of a youth hostel and a bus station.



The scale of the map is 1:10 000

(a) Work out the real distance between the youth hostel and the bus station.

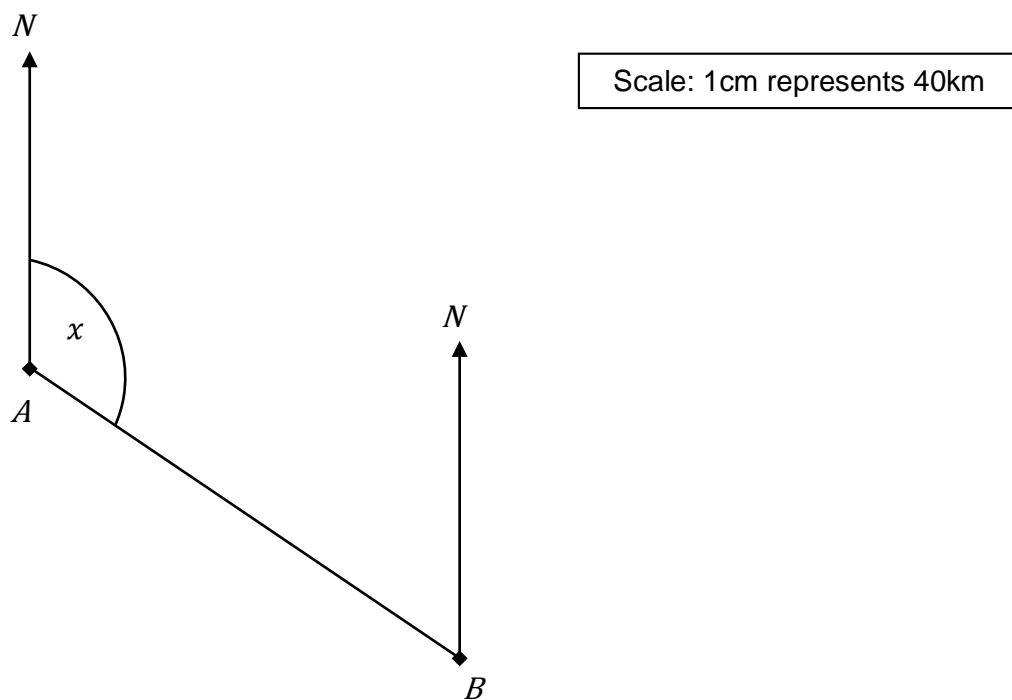
Give your answer in metres.

Answerm..... (2 marks)

(b) Find the bearing of the youth hostel from the bus station.

Answer°..... (1 mark)

- 7 The diagram shows the position of two ships, A and B :



- (a) Measure the size of the angle marked x .

Answer° (1 mark)

- (b) Work out the real distance between ship A and B .

Use the scale 1 cm represents 40 km.

Answer km (2 marks)

Ship C is 240 km on a bearing of 070° from ship B .

- (c) On the diagram, mark ship C with a cross (\times) and label it C .

(2 marks)

END OF QUESTIONS

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ANSWER IN THE SPACES PROVIDED**

