

Write your name here

Surname

Other names

In the style of:

Edexcel GCSE

Centre Number

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Candidate Number

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Mathematics A

Bearings

Foundation Tier

Past Paper Style Questions
Arranged by Topic

Paper Reference

1MA0/1F

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

Total Marks

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.*
- **Calculators must not be used.**



Information

- The total mark for this paper is 100
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

Advice

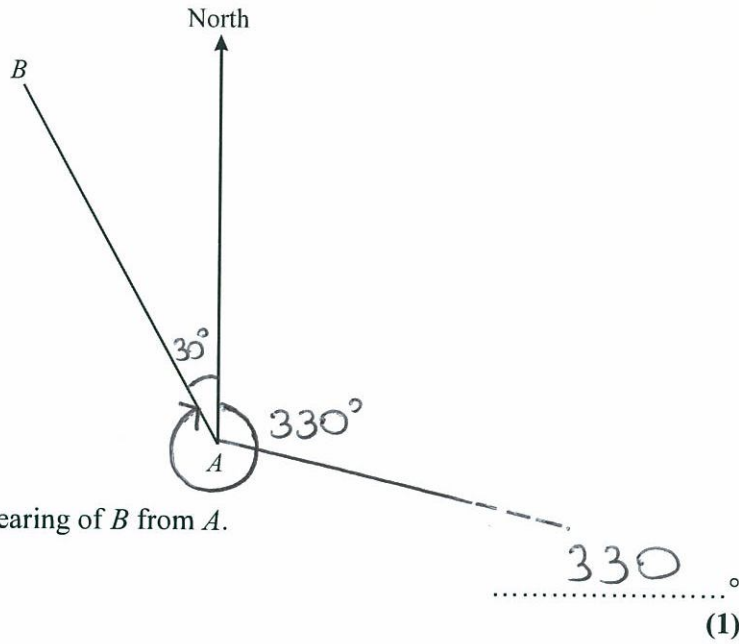
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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1.



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

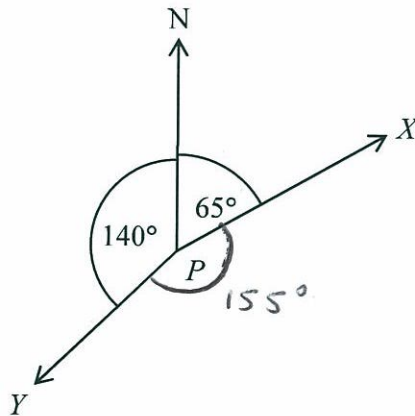
(1)

(b) On the diagram, draw a line on a bearing of 103° from A .

(1)

(Total 2 marks)

2.



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

065°

.....

(1)

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

$$65^\circ + 155^\circ = 220^\circ$$

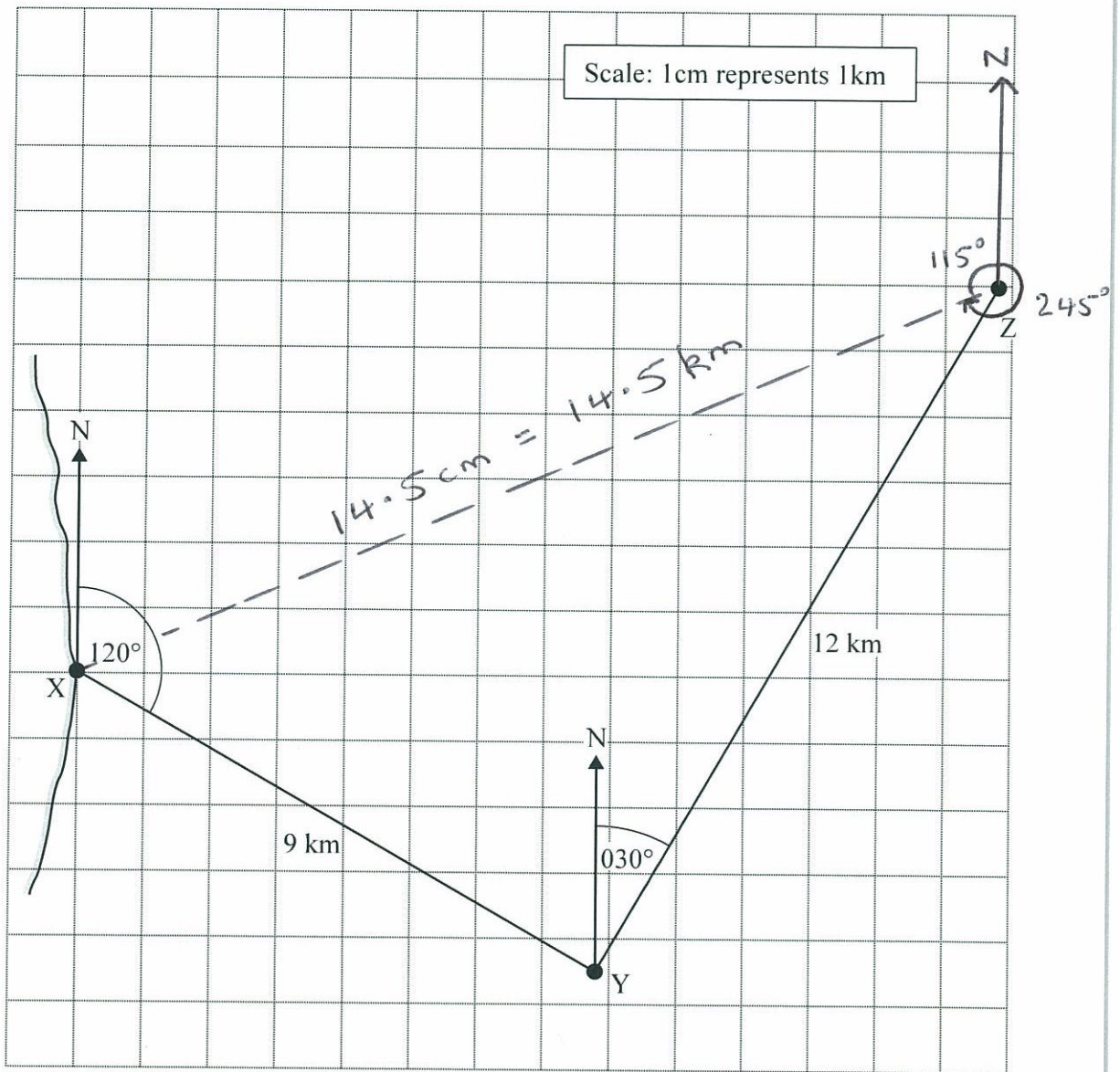
220°

.....

(2)



3. A ship leaves port X and travels 9 km on a bearing of 120° to point Y. The ship then turns and travels 12 km on a bearing of 030° 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

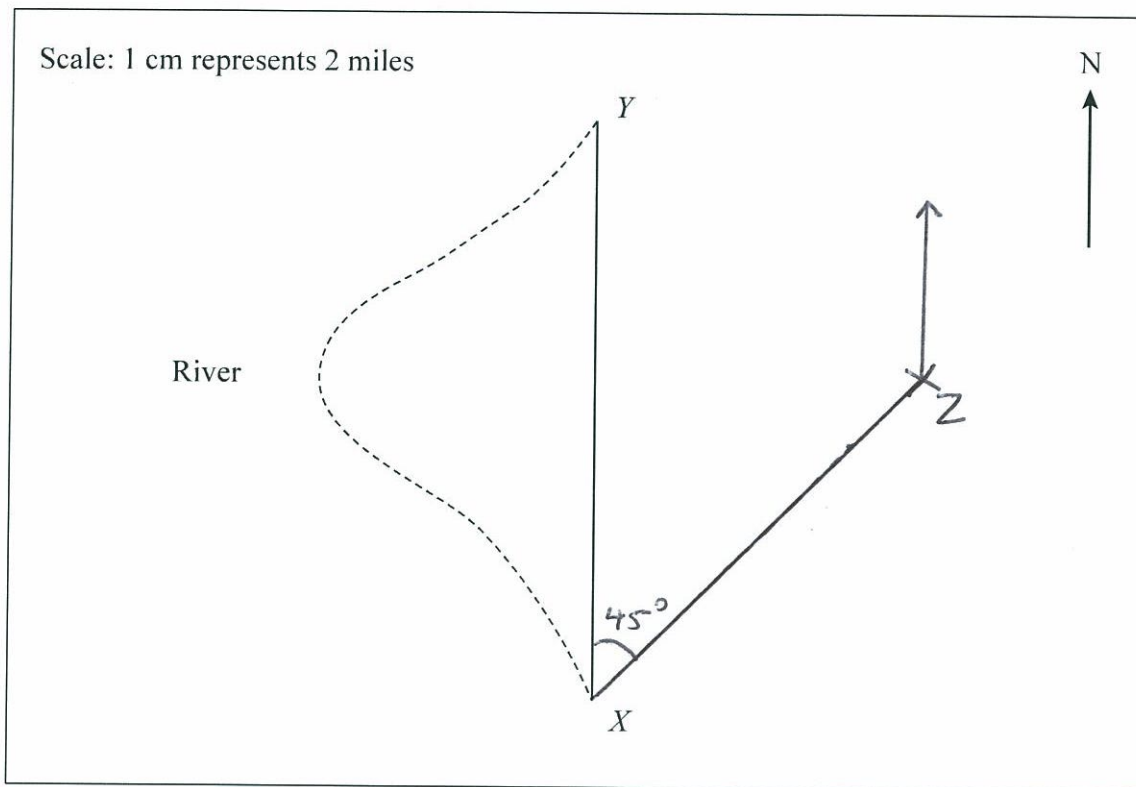
Distance 14.5 km

Bearing..... 245 $^\circ$

(3)



4. An helicopter flies due North from X to Y .
The distance from A to B on the river is 24 miles.



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

$$24 - (7.5 \times 2)$$

$$= 24 - 15$$

$$= 9 \text{ miles.}$$

..... 9 miles

(3)

- (b) Z is 12 miles north-east of A .

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

..... 045 °

(1)

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

(2)

(Total 6 marks)

