Write your name here Surname	Other n	names
In the style of: Edexcel GCSE	Centre Number	Candidate Number
Mathema	tics A	
Bearings	F	oundation Tier
Bearings Past Paper Style Que Arranged by Topic	2551	Foundation Tier Paper Reference 1MA0/1F

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

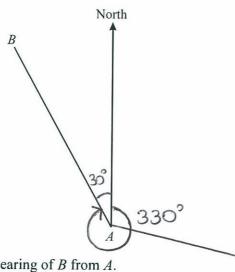
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



Turn over



1.



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

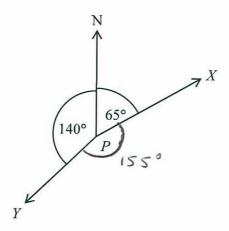


(b) On the diagram, draw a line on a bearing of 103° from A.

(1)

(Total 2 marks)

2.



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

(1)

(b) Work out the bearing of Yfrom P.

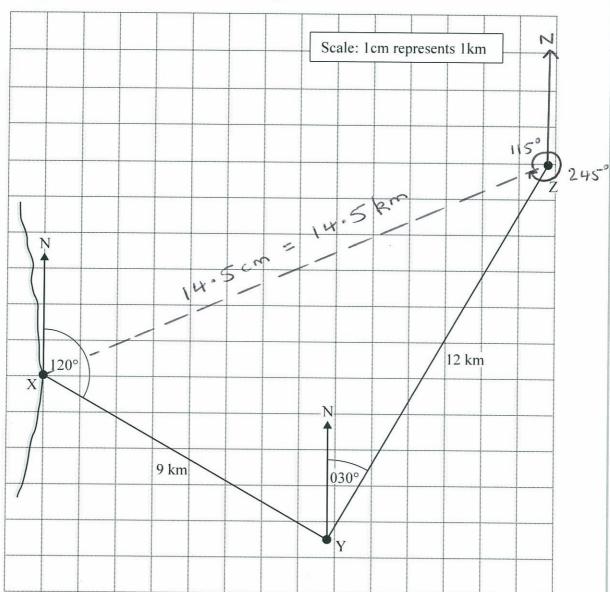
(2)

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(Total 3 marks)



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.

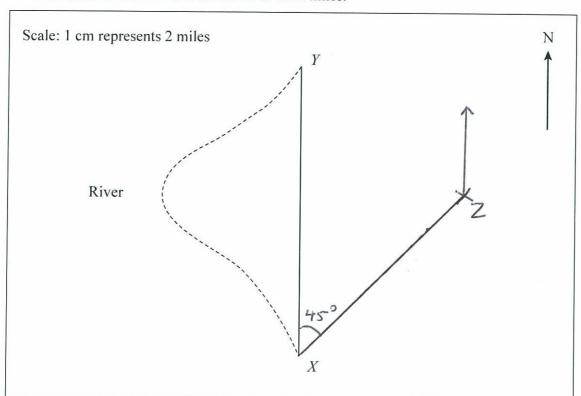
Use a ruler and protractor to work out the distance and bearing of the journey from Z to X

Distance	14.5	km
Bearing	245	0

(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?

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

$$= 24 - 15$$

$$= 9 \text{ miles}.$$
(b) Z is 12 miles north-east of A. (3)

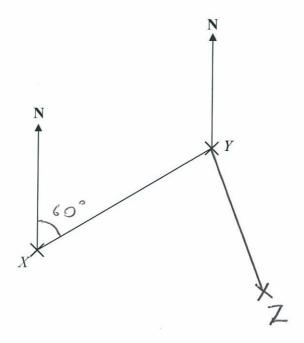
(i) Write down the three-figure bearing of Z from X.

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

(2)

(Total 6 marks)

5. The diagram shows the positions of two telephone masts, X and Y, on a map.



(a) Measure the bearing of Y from X.

060 .

(1)

Another mast Z is on a bearing of 160 from Y.

On the map, Z is 4 cm from Y.

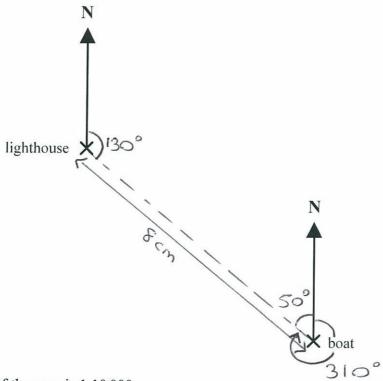
(b) Mark the position of Z with a cross (X) and label it Z.

(2)

(Total 3 marks)



6. The diagram shows part of a map. It shows the positions of a lighthouse and a boat.



The scale of the map is 1:10 000

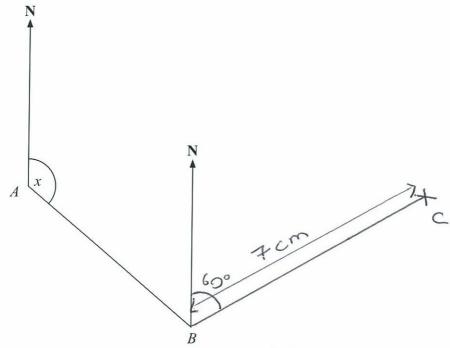
(a) Work out the real distance between the lighthouse and the boat. Give your answer in metres.

(b) Find the bearing of the lighthouse from the boat.

(1)

(Total 3 marks)

7. The diagram shows the position of two ports, *A* and *B*. A ship sails from port *A* to port *B*.



Scale: 1 cm represents 50 km

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

130 °

(b) Work out the real distance between port A and port B. Use the scale 1 cm represents $50 \, \mathrm{km}$.

5.7 x 50 = 285 km

285 km (2)

Port C is 350 km on a bearing of 060° from port B.

(c) On the diagram, mark airport C with a cross (\times) . Label it C.

(2)

(Total 5 marks)

