Name Class



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Bearings

(9 - 1) Topic booklet

HIGHER

These questions have been collated from previous years GCSE Mathematics papers.

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

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.
- •Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.
- •If the question is a **1F** question you are not allowed to use a calculator.
- •If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

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.

Answer ALL questions

Write your answers in the space provided. You must write down all the stages in your working.

8 The accurate scale drawing shows the positions of port P and a lighthouse L.





Scale: 1 cm represents 4 km.

Aleena sails her boat from port P on a bearing of 070°

She sails for $1\frac{1}{2}$ hours at an average speed of 12 km/h to a port Q.

Find

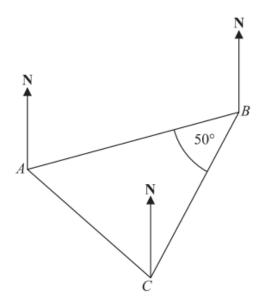
- (i) the distance, in km, of port Q from lighthouse L,
- (ii) the bearing of port Q from lighthouse L.

distance QL = km

bearing of Q from L =

(Total for Question 8 is 5 marks)

9 The diagram shows the positions of three points, A, B and C, on a map.

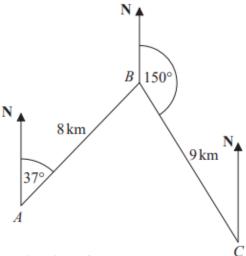


The bearing of B from A is 070°

Angle ABC is 50° AB = CB

Work out the bearing of C from A.

23 The diagram shows the positions of three towns, Acton (A), Barston (B) and Chorlton (C).



Barston is 8 km from Acton on a bearing of 037° Chorlton is 9 km from Barston on a bearing of 150°

Find the bearing of Chorlton from Acton. Give your answer correct to 1 decimal place. You must show all your working.

(Total for Question 23 is 5 marks)