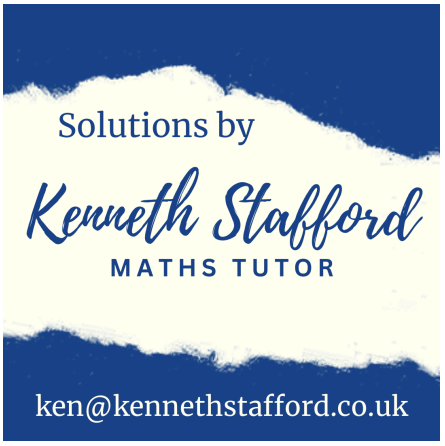
Name: SOLUTIONS

GCSE (1 - 9)

Bearings



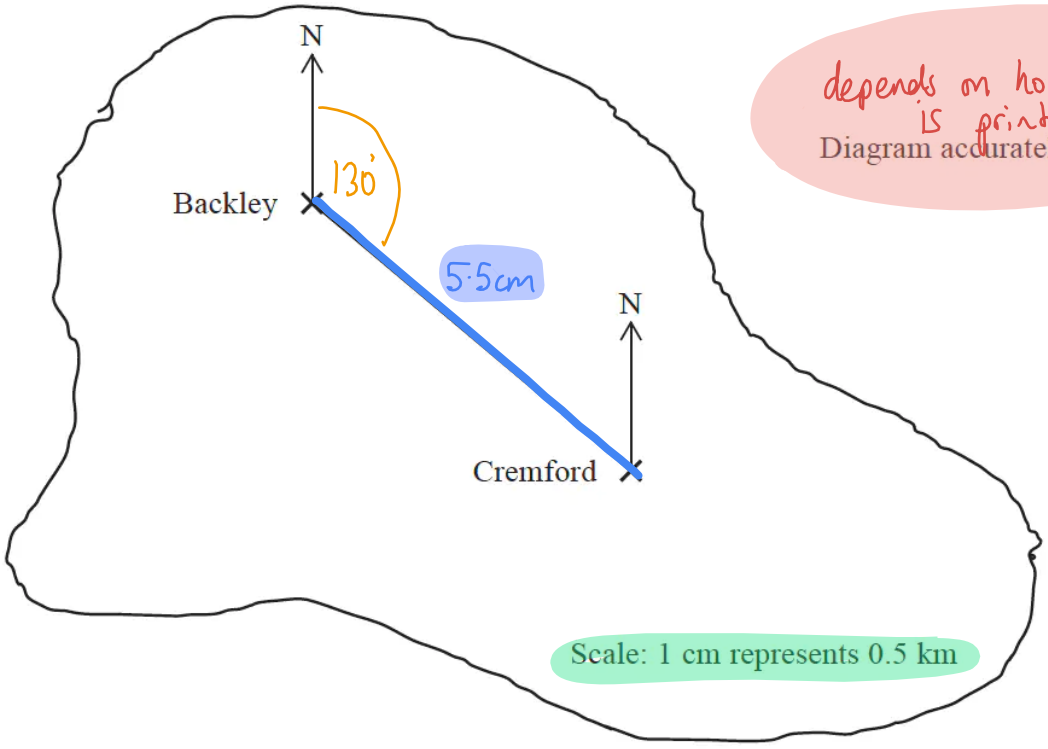


These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2017, Paper 2F, Q9
2	Edexcel, GCSE, Autumn 2019, Paper 1F, Q27
3	Edexcel, GCSE, Autumn 2020, Paper 1F, Q13
4	Edexcel, GCSE, Summer 2023, Paper 3F, Q17
5	Edexcel, GCSE, Summer 2022, Paper 3F, Q13

1

Here is a map of an island.



depends on how this is printed

Diagram accurately drawn

A straight road joins the two villages, Backley and Cremford.

(a) Work out the real distance between the two villages.

5·5 x 0·5 = 2·75 km

(2)

(b) Find the bearing of Cremford from Backley.

130° °

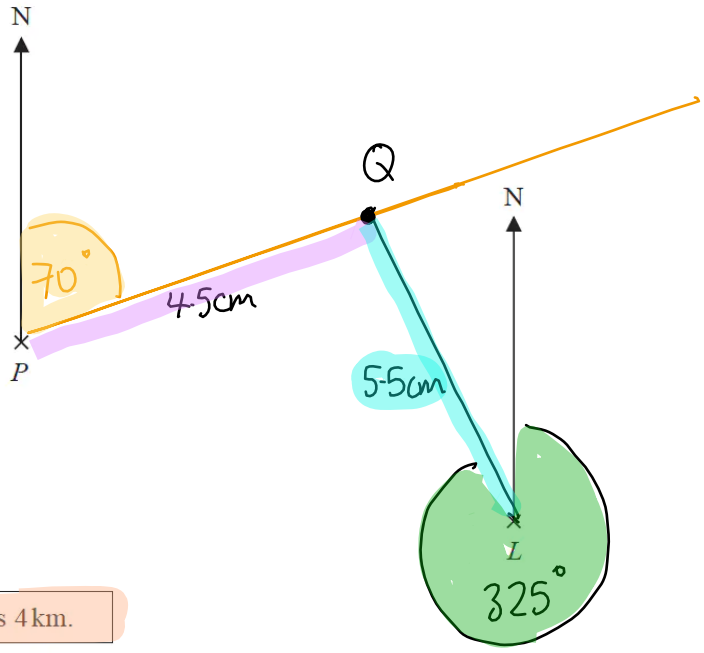
(1)

(Total for Question 9 is 3 marks)

[Edexcel, GCSE, Autumn 2017, Paper 2F, Q9]

2

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.

1.5 x 12 = 18

Find

(i) the distance, in km, of port Q from lighthouse L,

18 ÷ 4 = 4.5 cm

(ii) the bearing of port Q from lighthouse L.

5.5 x 4 = 22

Your answers may be slightly different depending on how accurately you measure. This question may print to a different size than it originally did which may also affect your answer.

distance QL = 22 km

bearing of Q from L = 325 °

(Total for Question 27 is 5 marks)

[Edexcel, GCSE, Autumn 2019, Paper 1F, Q27]

3

The diagram shows two points, A and B, on a map.

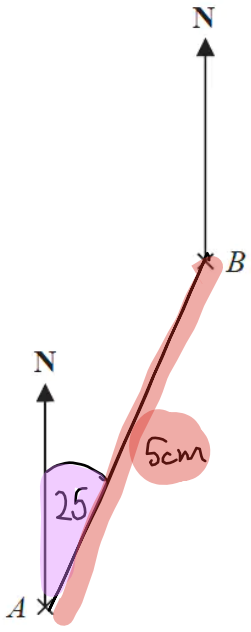


Diagram accurately drawn

Scale: 1 to 25 000

(a) Find the bearing of B from A.

025 °

(1)

(b) Work out the real distance between A and B.
Give your answer in kilometres.

$5 \times 25,000 = 125,000$ cm

$\div 100$

$= 1250$ m

$\div 1000$

$= 1.25$ km

1.25 kilometres

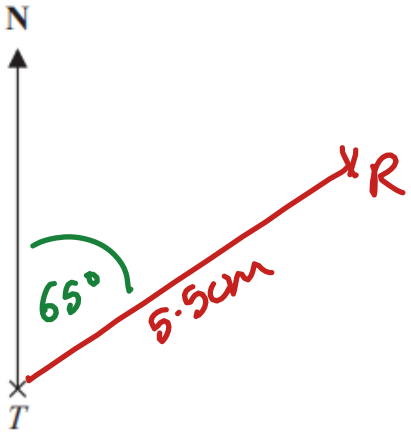
(3)

(Total for Question 13 is 4 marks)

[Edexcel, GCSE, Autumn 2020, Paper 1F, Q13]

4

The diagram shows the position of town T.



55km = 5·5cm

Town R is 55 km from town T on a bearing of 065°

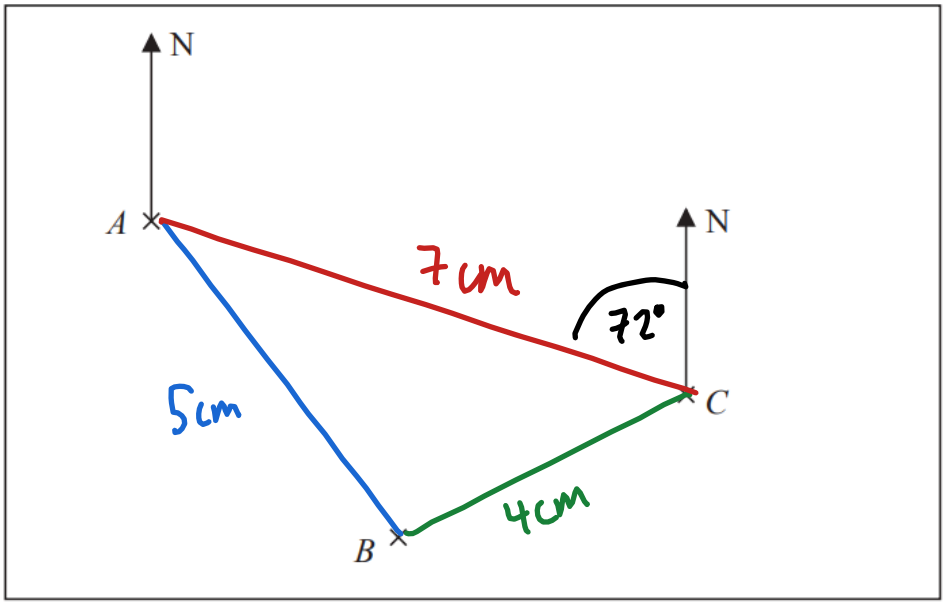
Mark the position of town R with a cross (×).
Use a scale of 1 cm to 10 km.

(Total for Question 17 is 2 marks)

[Edexcel, GCSE, Summer 2023, Paper 3F, Q17]

5

The accurately drawn map shows the positions of three points, A, B and C, in a field.



Scale: 1 cm represents 150 metres

Parveen walks in a straight line from A to B.
She then walks in a straight line from B to C.

Susan walks in a straight line from A to C.

Parveen walks more metres than Susan.

5 x 150 = 750m
4 x 150 = 600m
7 x 150 = 1050

(a) How many more?

(750 + 600) − 1050 = 300

..... metres

(3)

(b) Find by measurement the bearing of A from C.

360 − 72 = 288°

..... °

(1)

(Total for Question 13 is 4 marks)

[Edexcel, GCSE, Summer 2022, Paper 3F, Q13]