

Q1. The diagram shows a map of Poland.



Use one of the following compass points to complete each sentence correctly.

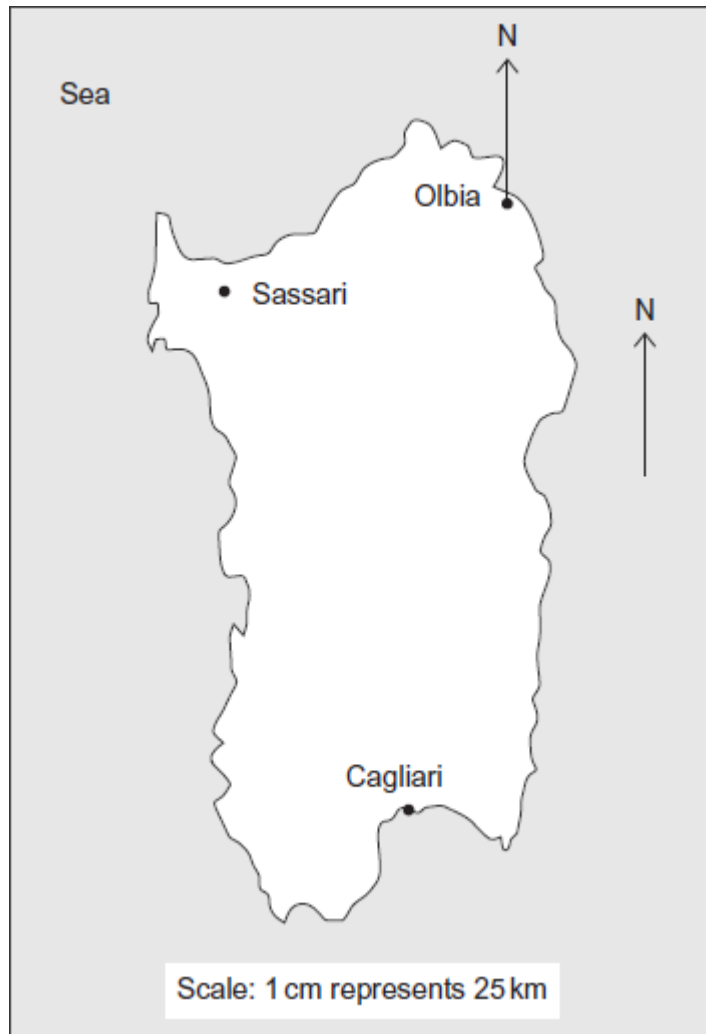
- | | | | |
|------------|------------|------------|------------|
| North | South | East | West |
| North-East | North-West | South-East | South-West |

(a) Krakow is of Gdansk. (1)

(b) Gdansk is of Poznan. (1)

(Total 2 marks)

Q2. Here is a map of Sardinia.



- (a) Work out the **actual** distance between Cagliari and Sassari.

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Answer km

(3)

- (b) Mario's favourite beach is on a bearing of 165° from Olbia.

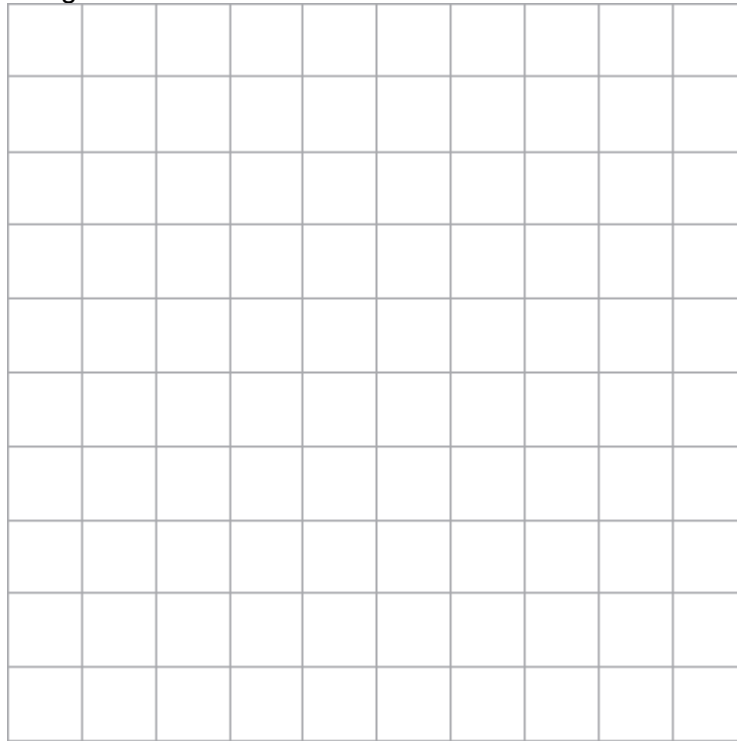
Draw this bearing and mark with a cross the position of the beach.

(2)

(Total 5 marks)

Q3.

Here is a centimetre grid.



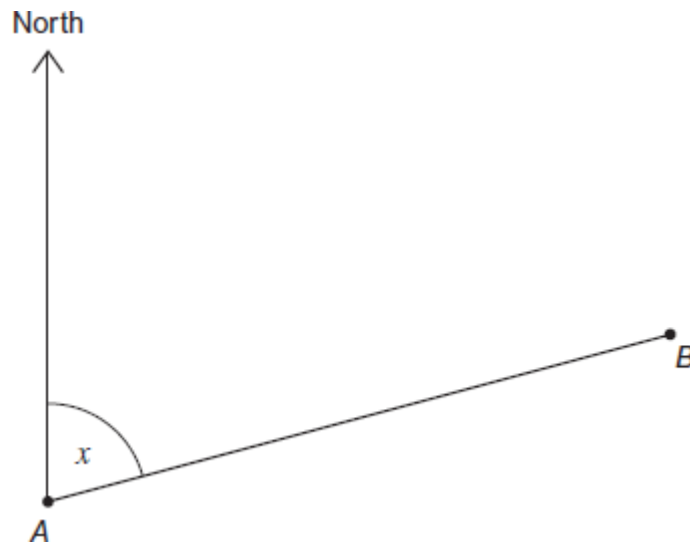
On the grid, draw a rectangle with

$$\text{Perimeter} = 18 \text{ cm}$$

and

$$\text{Area} = 20 \text{ cm}^2$$

(Total 2 marks)**Q4.**The diagram shows the position of ships *A* and *B*.



(a) Circle the size of angle x

- 55° 65° 75° 85° 95°

(1)

(b) What is the 3-figure bearing of B from A ?

Answer

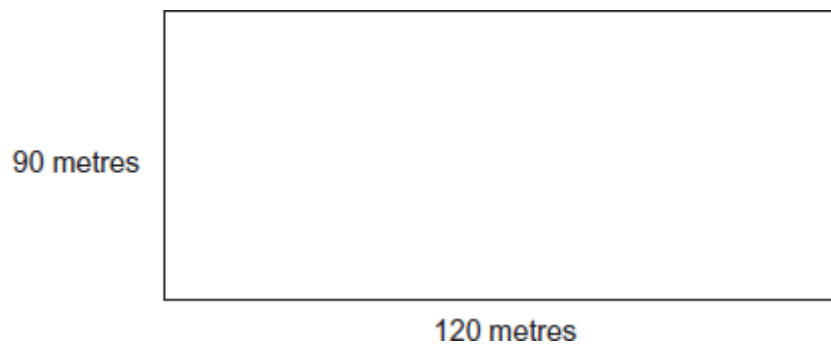
(1)

(Total 2 marks)

Q5.

Here is a rectangular school playing field.

Not drawn accurately



(a) The field is to have a new fence around the perimeter.

Work out the perimeter of the field.

.....
.....
.....

Answer m

(2)

- (b) The field is covered with turf.
The cost of the turf is £4.15 per square metre.

Work out the total cost.
Give your answer to the nearest £1000

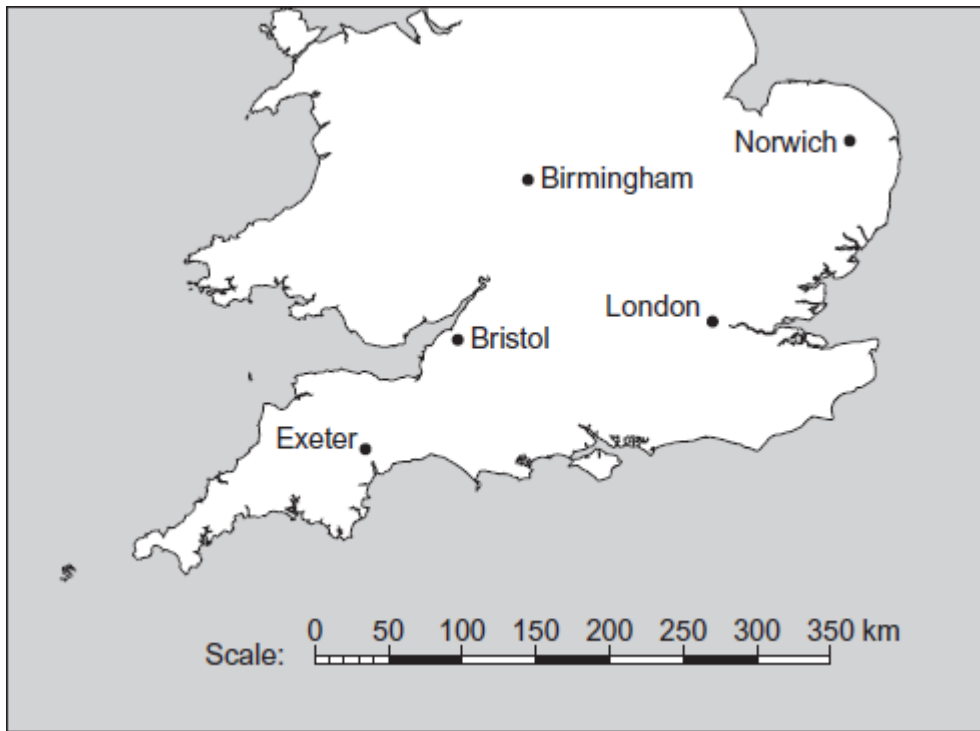
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(4)

(Total 6 marks)

Q6.



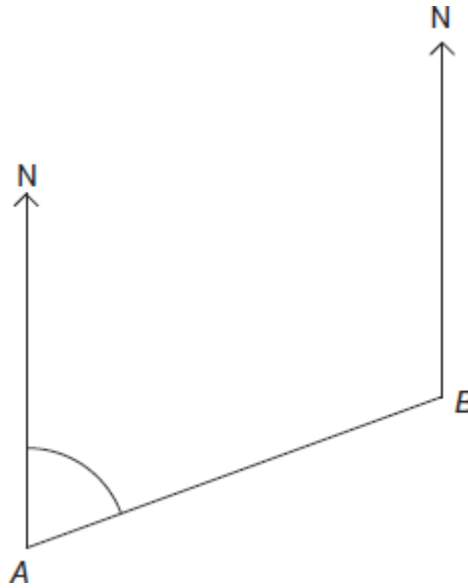
Work out the straight line distance between Exeter and Norwich.
Give your answer in kilometres.

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.....

Answer km

(Total 3 marks)

Q7.(a)

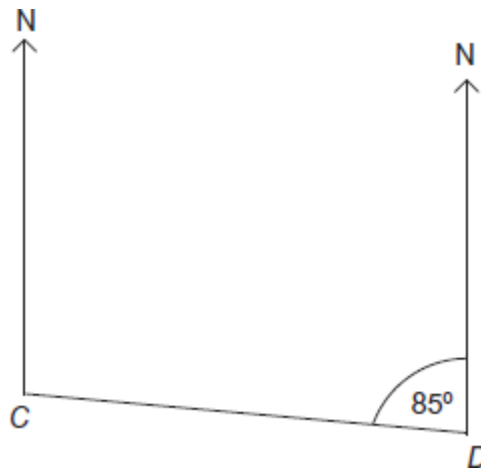


Measure and write down the **three-figure** bearing of *B* from *A*.

Answer °

(1)

(b)



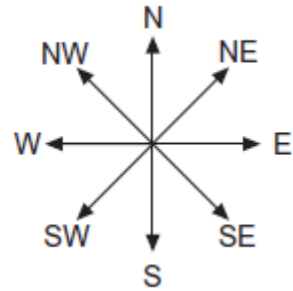
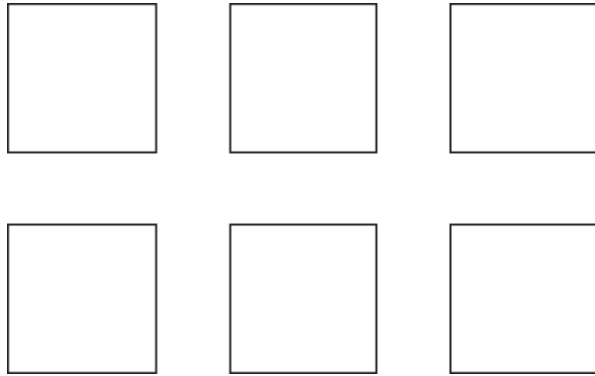
Work out the **three-figure** bearing of *D* from *C*.

.....

Answer °

(1)
 (Total 2 marks)

Q8. The diagram shows the positions of six chairs in a classroom.



Five students are sitting on the chairs so that

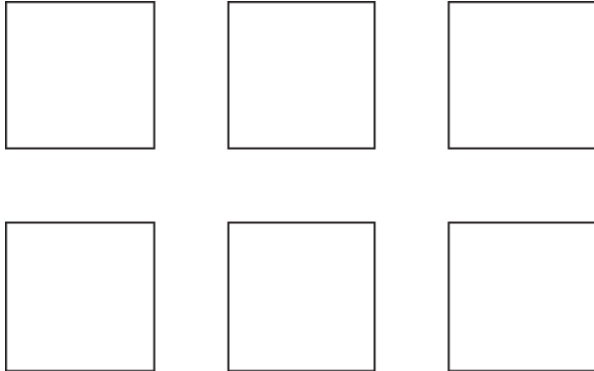
Ben is North-East of Adam

Cath is East of Ben

Darren is South-East of Emily.

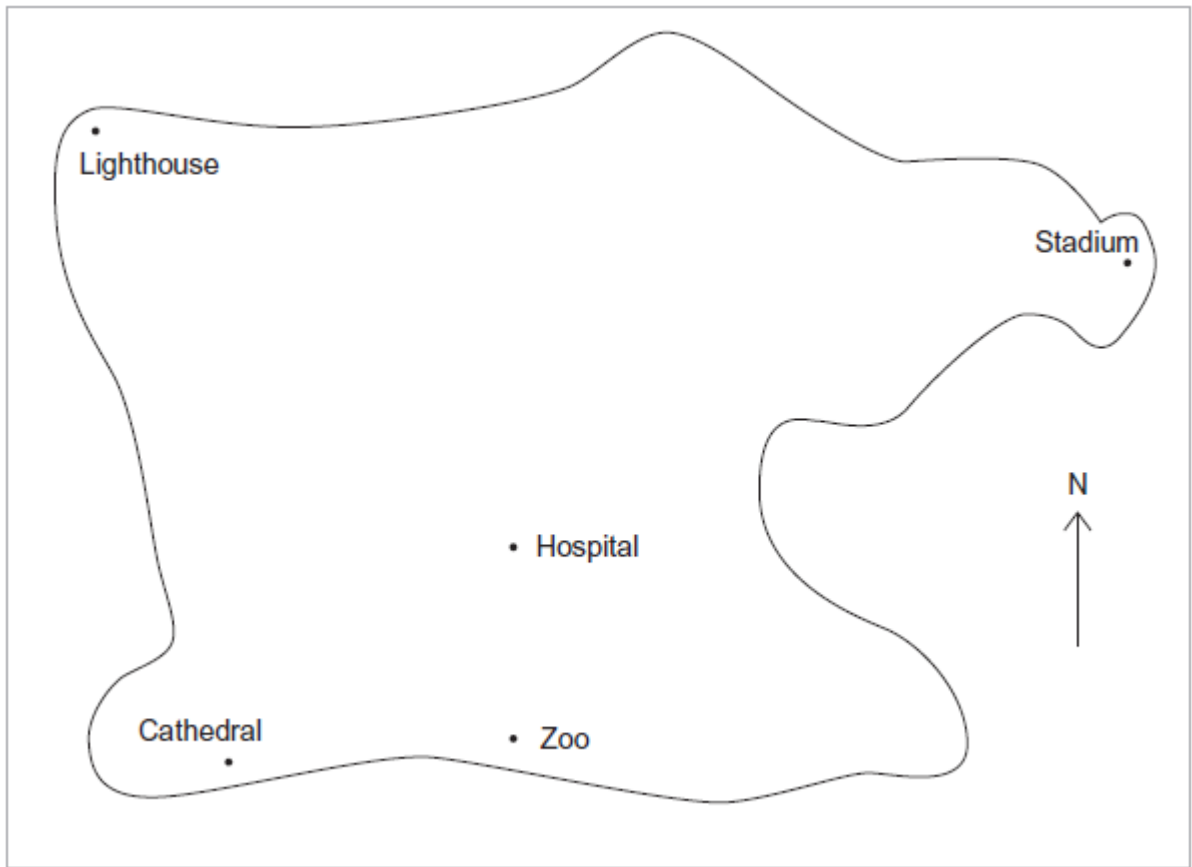
On the plan below, show where each student is sitting.

Answer



(Total 3 marks)

Q9.



(a) What is South of the Hospital?

Answer

(1)

(b) What is South-East of the Lighthouse?

Answer

(1)

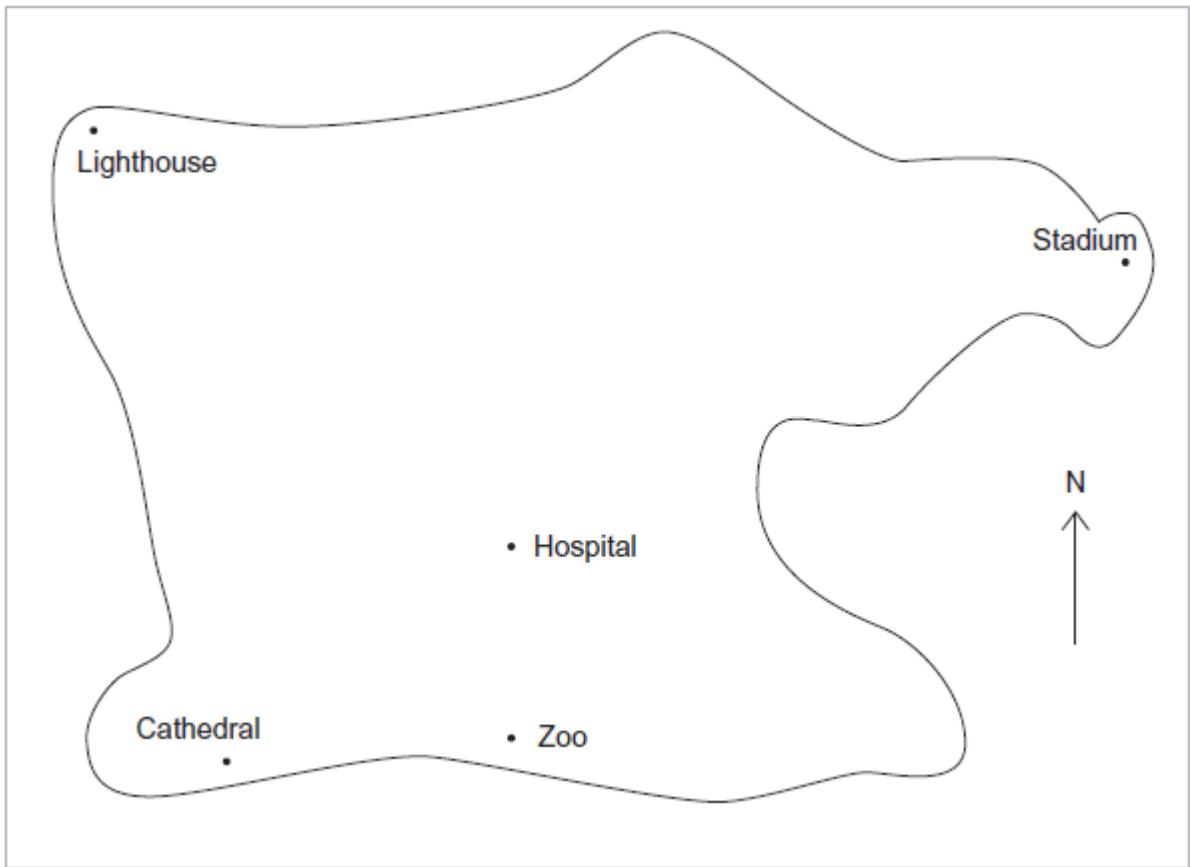
(c) Measure the three-figure bearing of the Stadium from the Hospital.

Answer °

(2)

(Total 4 marks)

Q10.

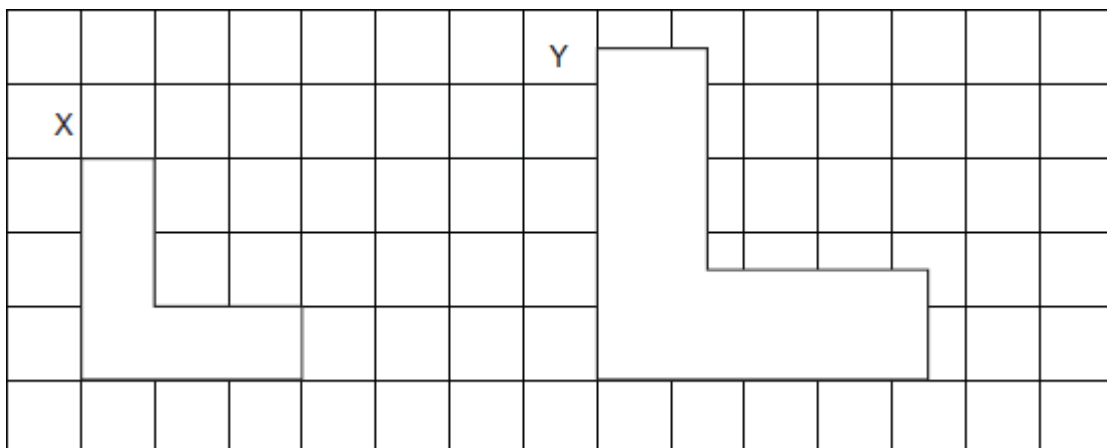


The airport is on a bearing of 040° from the Hospital and 270° from the Stadium.

Mark the position of the Airport on the map.

(Total 3 marks)

Q11.



(a) Shape Y is an enlargement of shape X.

What is the scale factor of the enlargement?

Answer

(1)

(b) Shape X has a perimeter of 12 cm.

Work out the perimeter of shape Y.

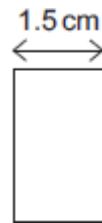
Answer cm

(1)
(Total 2 marks)

Q12.

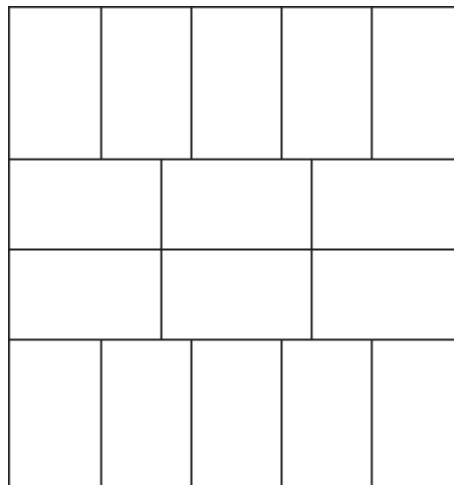
A rectangle has a width 1.5 cm.

Not drawn accurately



16 of the rectangles are put together to form a shape as shown.

Not drawn accurately



Work out the area of the shape.

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Answer cm²

(Total 5 marks)

Q13.

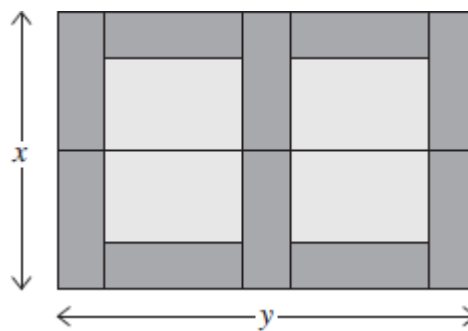
Two sizes of rectangular slab are shown.

Not drawn accurately



10 small slabs and 4 large slabs make this pattern.

Not drawn accurately



(a) Work out the value of x .

.....

Answer cm

(1)

(b) Show that the value of y is 126 cm.

.....

(2)

(c) Work out the length and width of a large slab.

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Length = cm

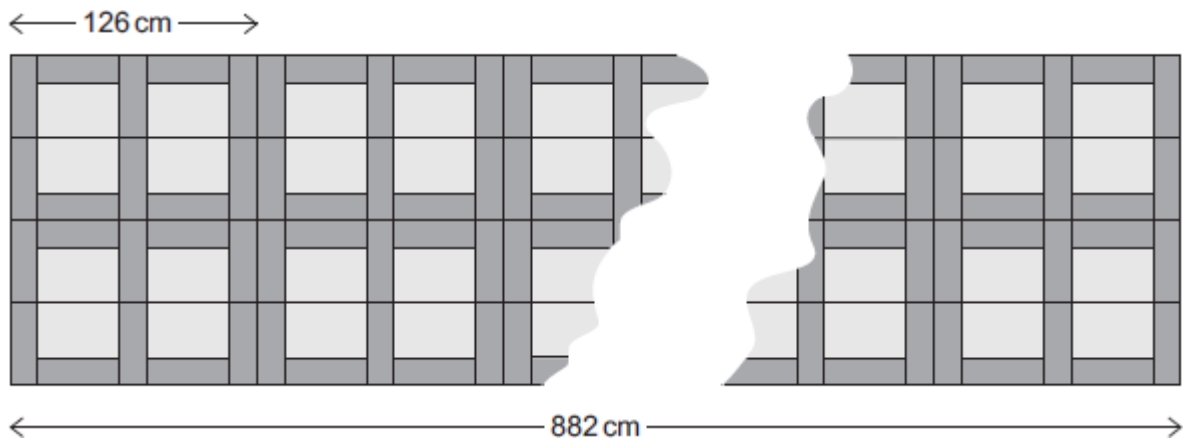
Width = cm

(3)

(d) The slabs are used to make a path as shown.

The path is 882 centimetres long.

Not drawn accurately



Work out the number of each slab used to make the path.

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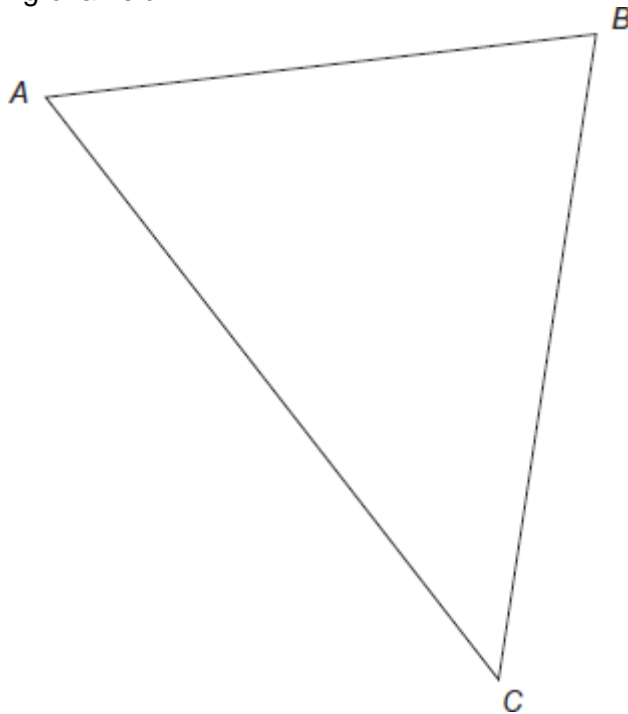
Number of small slabs

Number of large slabs

(5)
(Total 11 marks)

Q14.

Here is a scale drawing of a field.



(a) Measure the length of AC in centimetres.

Answer cm

(1)

- (b) The actual length of AC is 160 metres.

Work out the actual length of AB .

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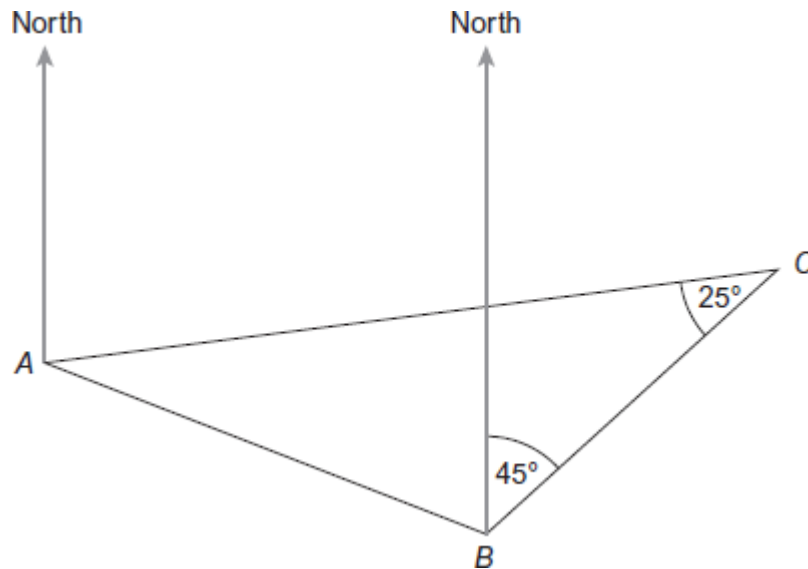
Answer m

(4)
(Total 5 marks)

Q15.

- (a) The diagram represents a cross-country course.

Not drawn accurately



Work out the three-figure bearing of C from A .
You **must** show your working.

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Answer°

(3)

- (b) Steve completes the course in 15 minutes.
He runs at an average speed of 8 miles per hour.

How many miles does he run?

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Answer miles

(2)
(Total 5 marks)