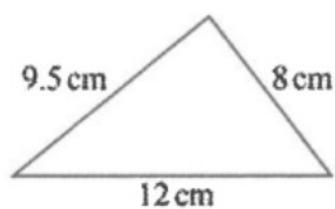
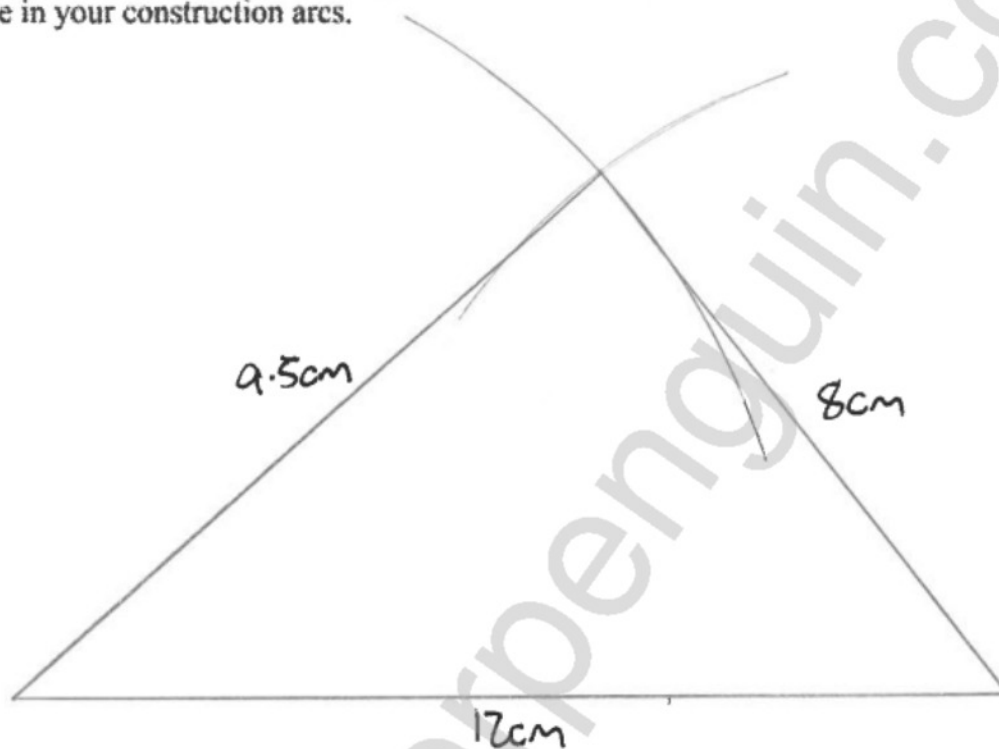


6



NOT TO
SCALE

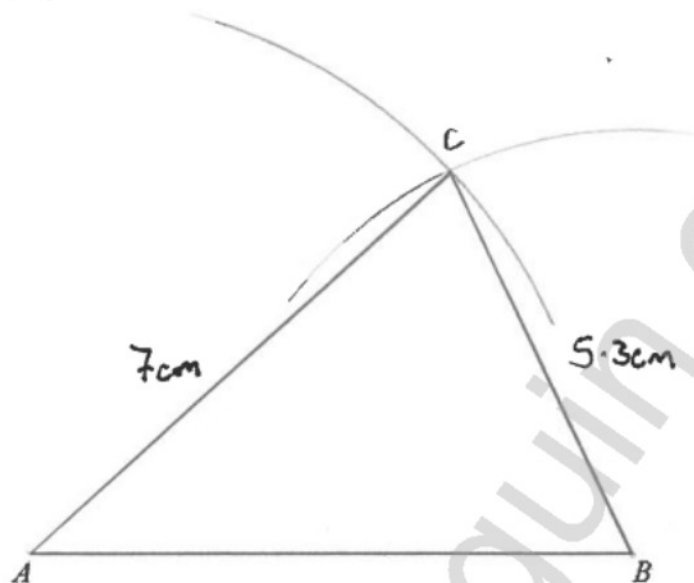
Using a ruler and compasses only, construct this triangle.
Leave in your construction arcs.



[2]

- 2 In triangle ABC , $AC = 21\text{ m}$ and $BC = 15.9\text{ m}$.

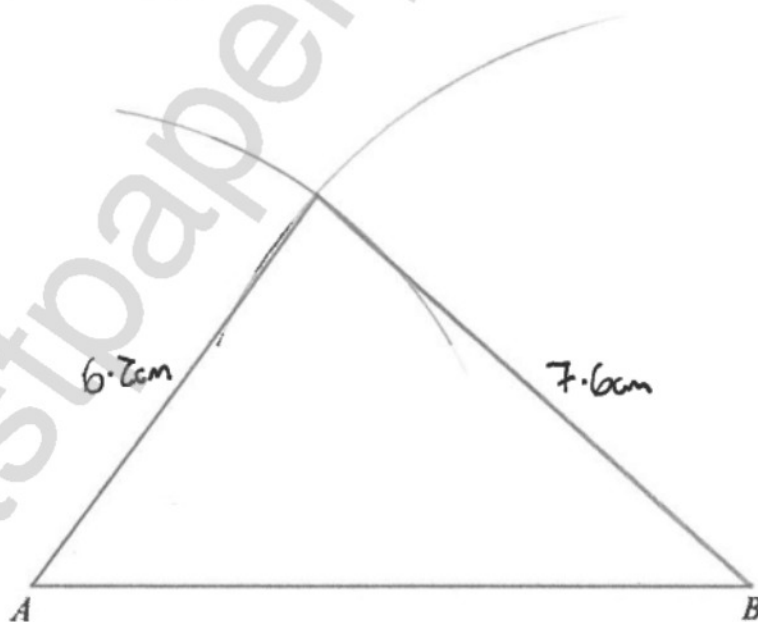
Using a ruler and compasses only, complete the scale drawing of the triangle.
Use a scale of 1 cm to represent 3 m .
The side AB is drawn for you.



Scale : 1 cm to 3 m

- 3 In triangle ABC , $BC = 7.6\text{ cm}$ and $AC = 6.2\text{ cm}$.

Using a ruler and compasses only, construct triangle ABC .
Leave in your construction arcs.
The side AB has been drawn for you.



[2]

- 2 A field, ABC , is in the shape of a triangle.
 $AC = 500\text{ m}$ and $BC = 650\text{ m}$.

$\nwarrow 5\text{ cm}$

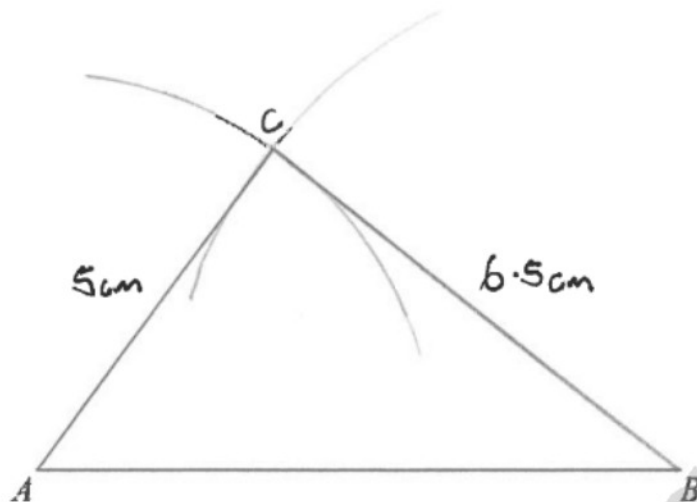
$\nwarrow 6.5\text{ cm}$

Using a ruler and compasses only, complete the scale drawing of the field ABC .

Leave in your construction arcs.

Use a scale of 1 cm to represent 100 m .

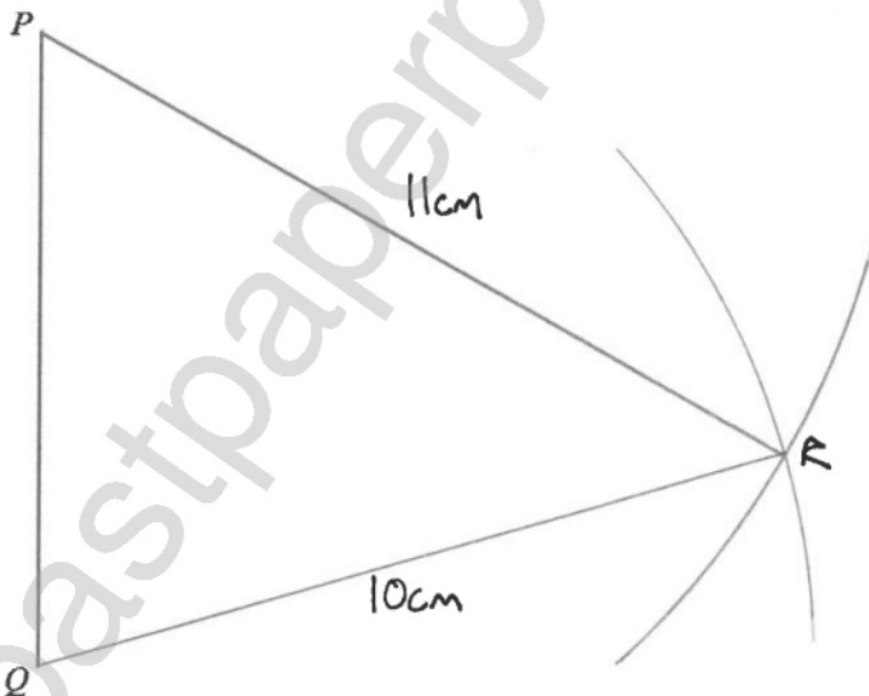
The side AB has been drawn for you.



Scale: 1 cm to 100 m

[3]

2



In triangle PQR , $QR = 10\text{ cm}$ and $PR = 11\text{ cm}$.

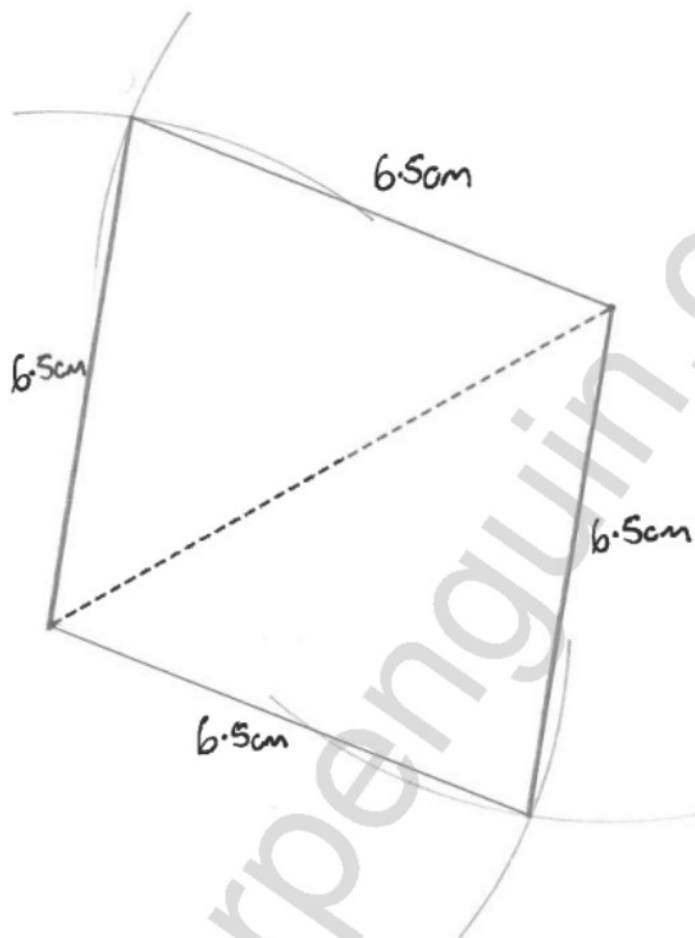
Using a ruler and compasses only, construct triangle PQR .

The line PQ has been drawn for you.

[2]

- 6 A rhombus has side length 6.5 cm.
The rhombus can be constructed by drawing two triangles.

Using a ruler and compasses only, construct the rhombus.
Leave in your construction arcs.
One diagonal of the rhombus has been drawn for you.



[2]

- 8 The scale drawing shows the positions of boat *A* and boat *B*.
The scale is 1 cm represents 0.5 km.

North



A



B

Scale: 1 cm to 0.5 km

- (a) Find the actual distance between boat *A* and boat *B*.

$$4.25 \text{ cm} = 4.25 \times 0.5 \text{ km} \\ = 2.125 \text{ km}$$

..... 2.125 km [2]

- (b) Lighthouse *L* lies to the east of boats *A* and *B*.
L is 4.4 km from boat *A* and 3.3 km from boat *B*.

Using a ruler and compasses only, construct and label the position of *L*.

[3]