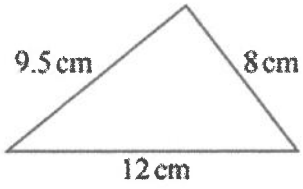
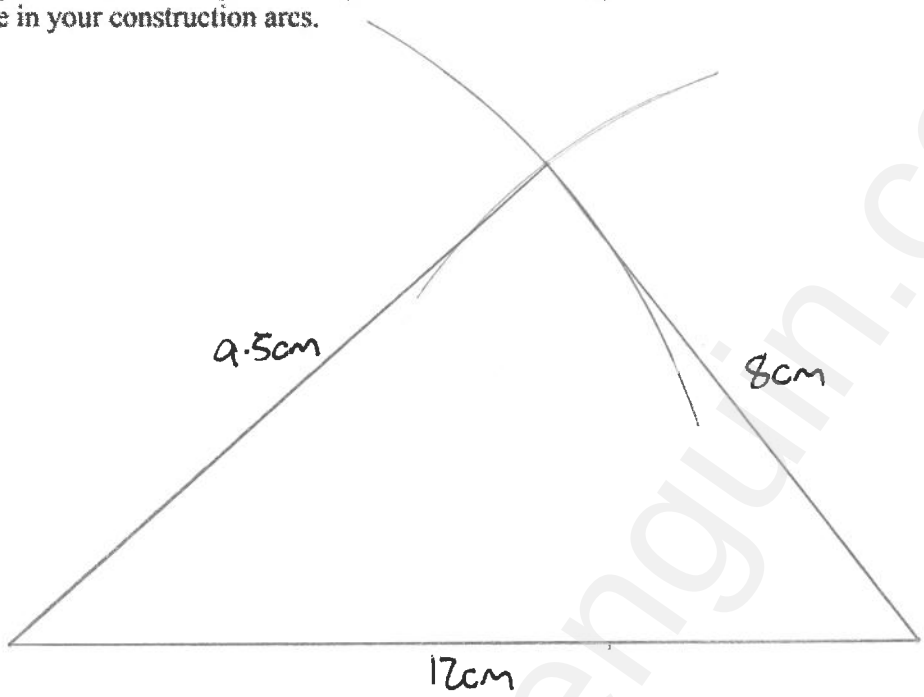
6



NOT TO SCALE

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

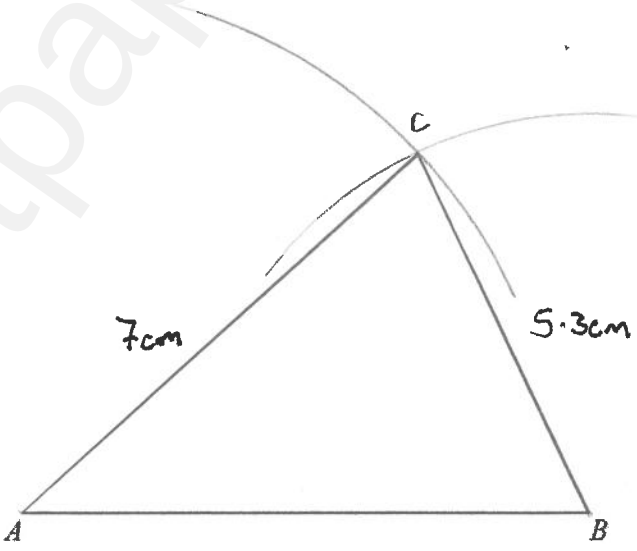


[2]

7cm ↓ ↙ 5.3cm

2 In triangle ABC, $AC = 21$ m and $BC = 15.9$ m.

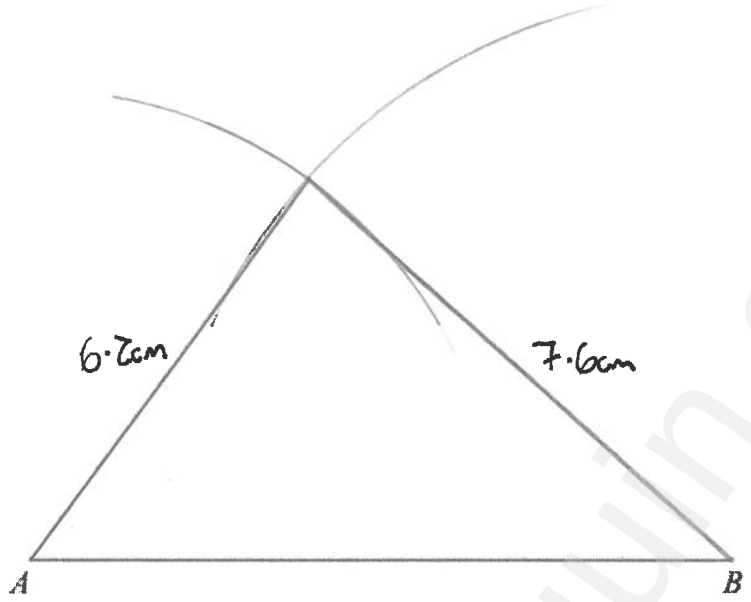
Using a ruler and compasses only, complete the scale drawing of the triangle.
Use a scale of 1 cm to represent 3 m.
The side AB is drawn for you.



Scale : 1 cm to 3 m

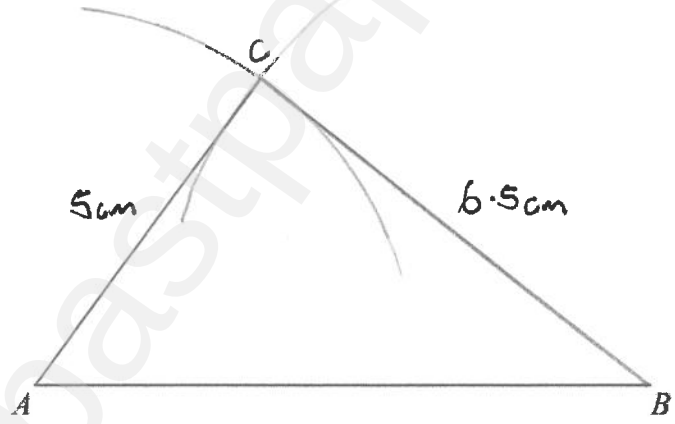
3 In triangle ABC, $BC = 7.6\,\text{cm}$ and $AC = 6.2\,\text{cm}$.

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



[2]

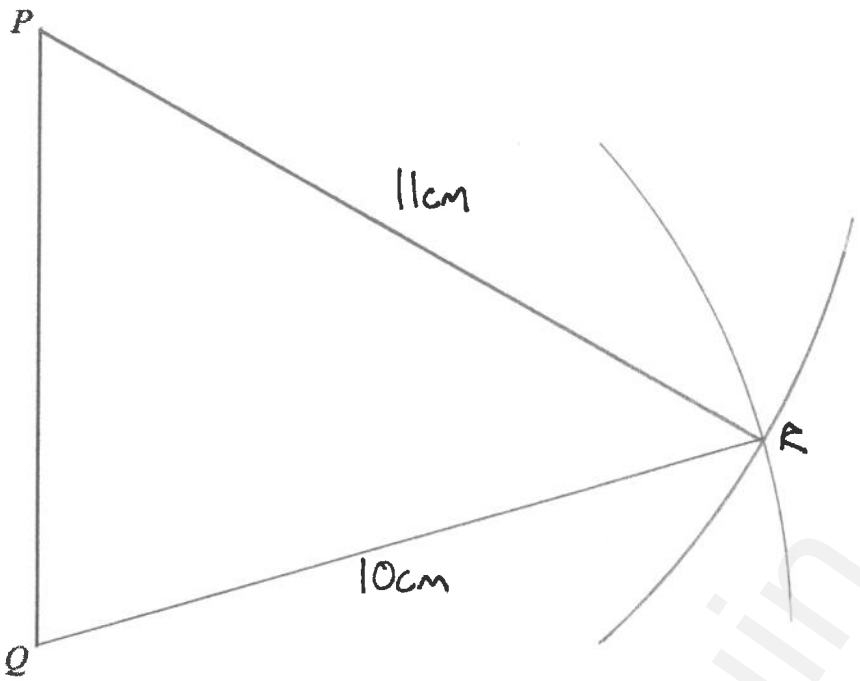
2 A field, ABC, is in the shape of a triangle.
$AC = 500\,\text{m}$ and $BC = 650\,\text{m}$.
5cm 6·5cm
Using a ruler and compasses only, complete the scale drawing of the field ABC.
Leave in your construction arcs.
Use a scale of 1 cm to represent 100 m.
The side AB has been drawn for you.



Scale: 1 cm to 100 m

[3]

2

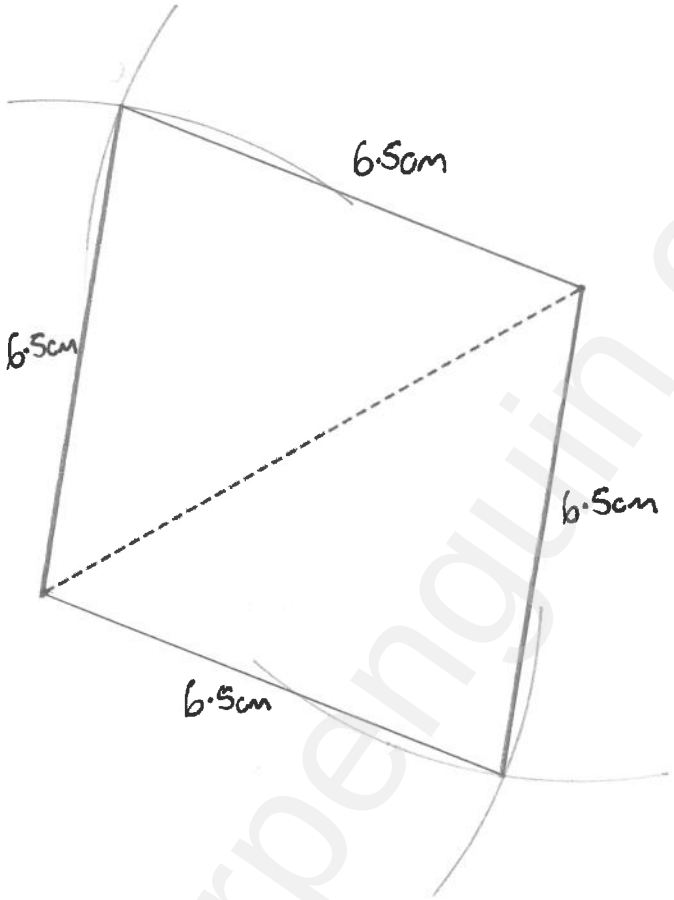


In triangle PQR, $QR = 10$ cm and $PR = 11$ cm.

Using a ruler and compasses only, construct triangle PQR.
The line PQ has been drawn for you. [2]

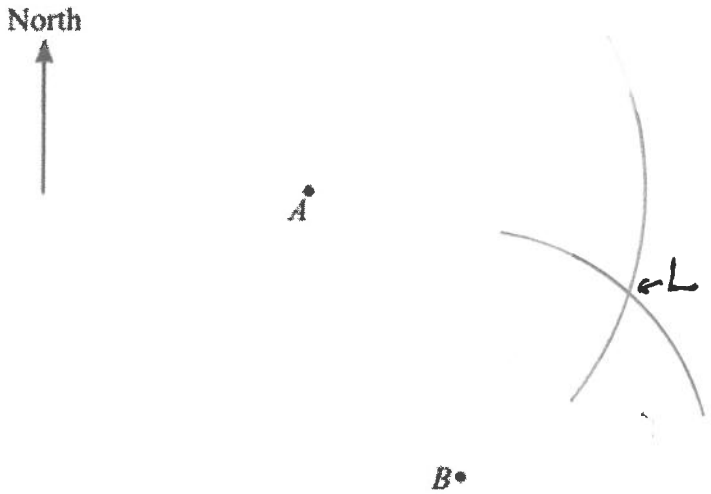
6 A rhombus has side length 6.5 cm.
The rhombus can be constructed by drawing two triangles.

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.



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]