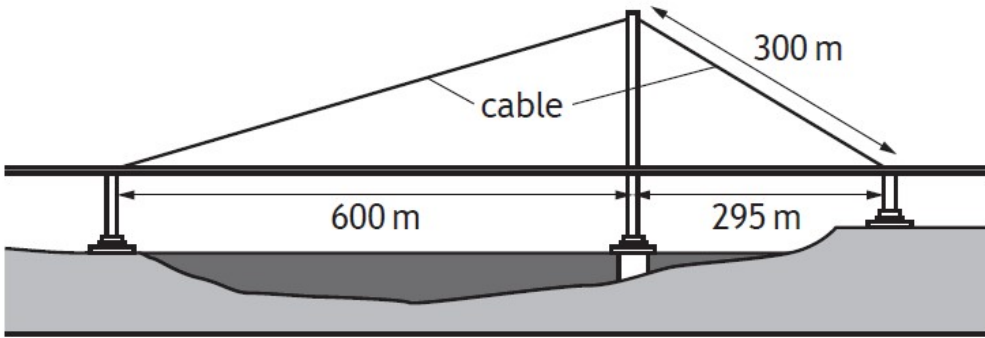
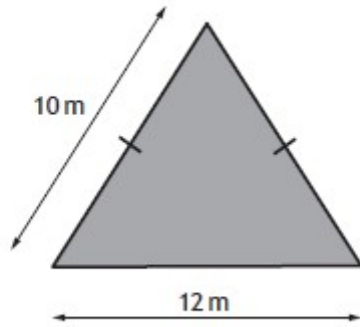

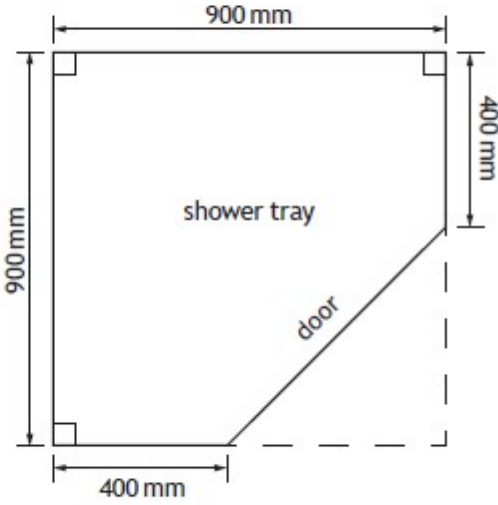
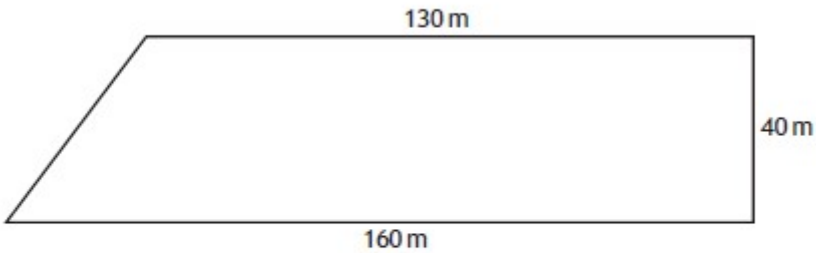
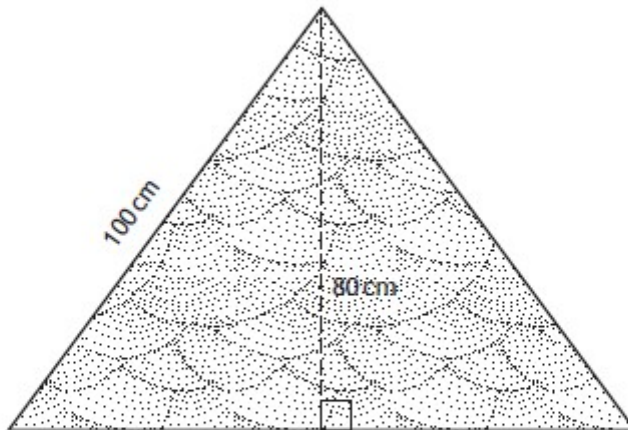


<p>2019 P2 Q8(b)</p>	<p>Two cables support a section of the bridge. This section forms two right-angled triangles, as shown in the diagram.</p>  <p>(b) Calculate the total length of cable needed for this section of bridge. Do not use a scale drawing.</p>	<p>4</p>
<p>Ans</p>	<p>902.4...m</p>	
<p>2018 P1 Q13</p>	<p>A lawn is to be created in the shape of an isosceles triangle with dimensions as shown below.</p>  <p>Calculate the area of the lawn.</p>	<p>3</p>
<p>Ans</p>	<p>48</p>	

2017 P2 Q8	<p>Zuzanna is remodelling her shower room. She considers two designs. The first design has a pentagonal shower tray. The door will be fitted on the side of the tray as shown.</p> <div style="display: flex; align-items: center;">   </div> <p>(a) Calculate the length of the side where the door will go.</p>	3
Ans	707 (mm)	
2016 P1 Q6	<p>A farmer needs to completely enclose this field with a new fence.</p> <div style="text-align: center;">  </div> <p>The fence is only sold in 80 metre rolls. Each roll costs £73.99. Calculate the cost of the new fence.</p>	5
Ans	(£)369.95	

2015 P1 Q7

Lucy has a scarf in the shape of an isosceles triangle with dimensions as shown below.



Lucy wants to sew ribbon along all three edges of the scarf.

She has 3.5 metres of ribbon.

Does Lucy have enough ribbon for the scarf?

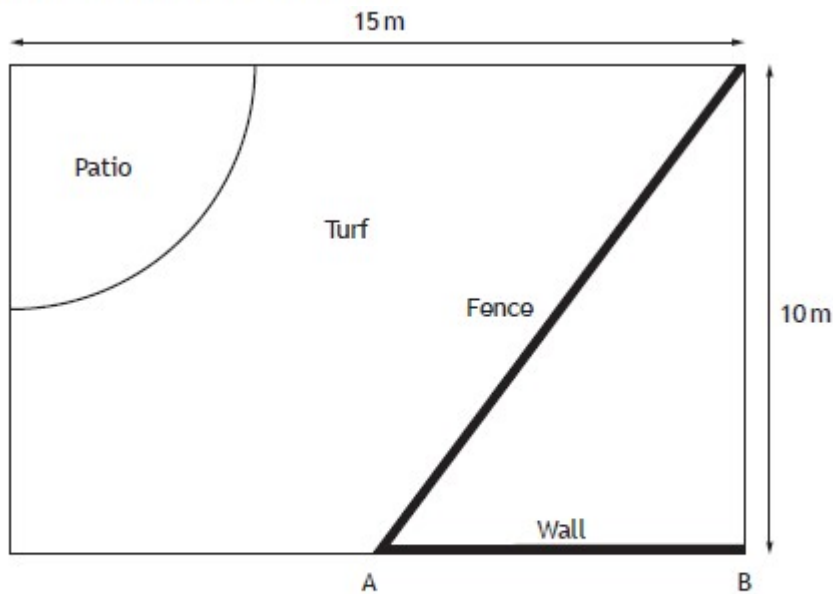
Show all working and justify your answer.

4

Ans Yes, since $3.5\text{m} > 320\text{cm}$

2014 P2 Q5

A landscape gardener is designing a garden.
The rectangular garden has dimensions 15 metres by 10 metres.
He plans to build a triangular flower bed.
To separate the flower bed from the lawn, he uses a low fence.
The fence is made of 5 sections, each 2.8 metres long.
A patio in the shape of a quarter circle with a radius of 5 metres is to be created in the corner.
The rest of the garden is to be laid as turf.
A sketch of the garden is shown below.

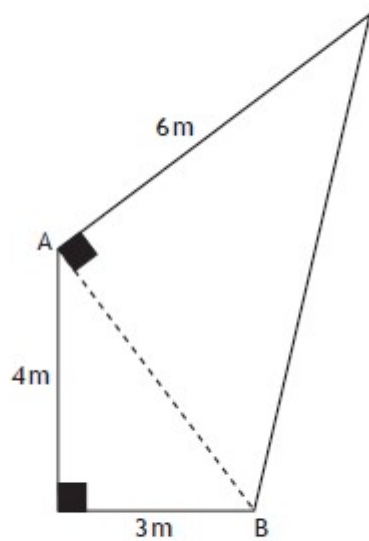


(a) Calculate the length of the wall, AB.

3

Ans 9.8 metres

A new sail is being designed for a yacht as shown below.
It consists of two right angled triangles.



(a) Calculate the length of AB.

Ans 5 (m)