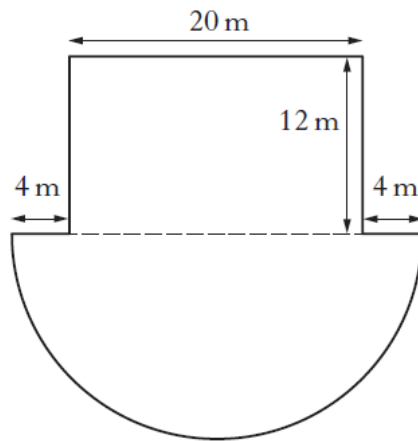


SQA Past paper questions

2015 - Paper 2 - Question 15

The floor plan of a concert hall is shown below.



The stage is a rectangle and the seating area is a semi-circle.

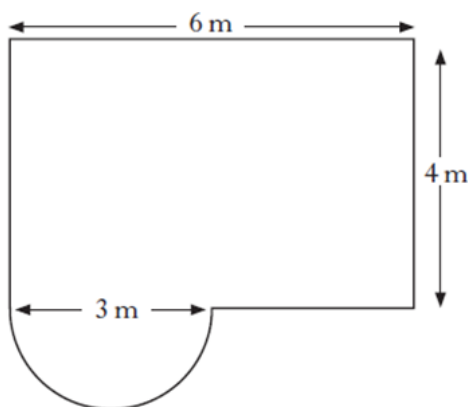
Calculate the total area of the stage and seating area.

Give your answer correct to the **nearest square metre**. **5**

Click [here](#) for video solution. 

2014 - Paper 2 - Question 15

The plan of a patio is shown below.



The patio consists of a rectangle and a semi-circle.

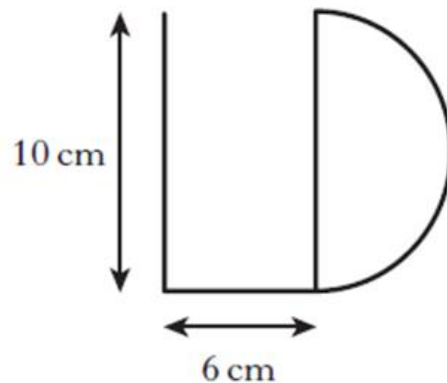
Calculate the area of the patio.

Give your answer correct to the **nearest square metre**. **5**

Click [here](#) for video solution. 

2013 - Paper 2 - Question 15

Lizzie Douglas bends a length of wire into the shape of her initials.



The letter D is a semi-circle.

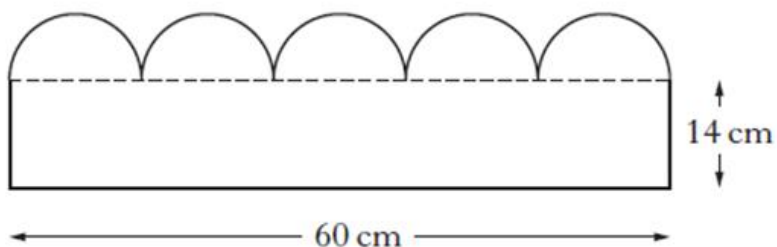
Calculate the total length of the wire.

Give your answer correct to the **nearest centimetre**. **5**

Click [here](#) for video solution. 

2012 - Paper 2 - Question 16

A section of lawn edging consists of a rectangle with five equal semi-circles at the top.



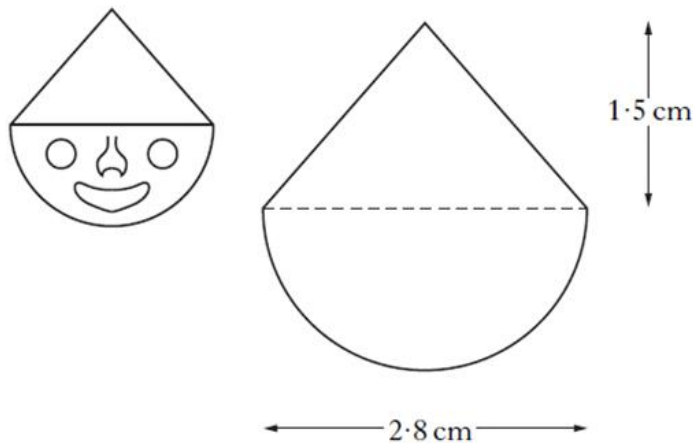
Calculate the area of the section in square centimetres.

Give your answer correct to the **nearest square centimetre**. **5**

Click [here](#) for video solution. 

2011 - Paper 2 - Question 14

A badge showing a clown's head consists of a semi-circle and a triangle.



Calculate the area of the badge in square centimetres.

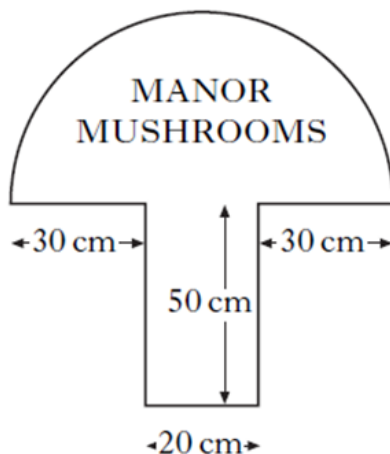
Give your answer correct to one decimal place.

5

Click [here](#) for video solution. 

2010 - Paper 2 - Question 14

A sign for a mushroom farm consists of a semi-circle and a rectangle.



There is a red border painted all around the edge of the sign.

Calculate the total length of the red border.

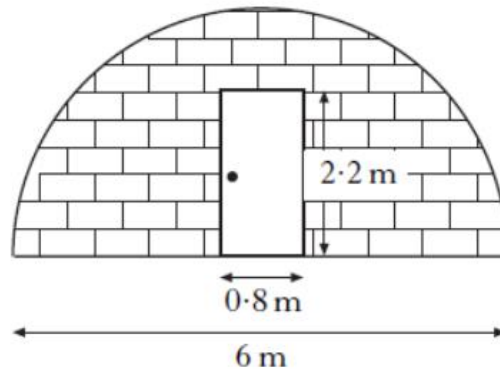
Give your answer correct to the **nearest centimetre**.

5

Click [here](#) for video solution. 

2009 - Paper 2 - Question 13

The diagram below shows a semi-circular wall with a door.



The door is a rectangle and is made of wood.

The rest of the wall is made of brick.

Calculate the area of brick wall in square metres.

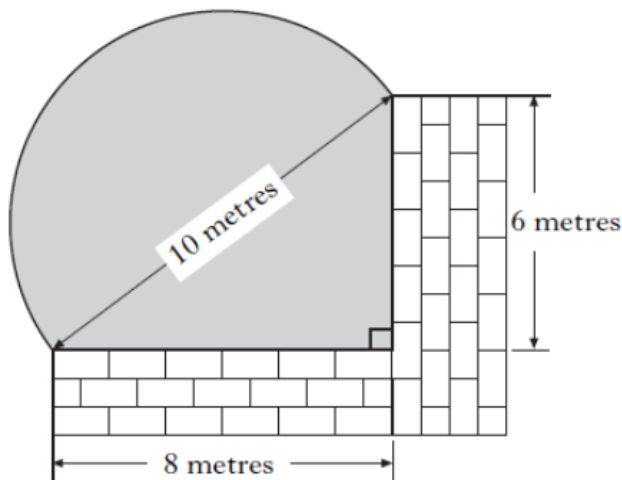
Give your answer correct to one decimal place.

5

Click [here](#) for video solution. 

2008 - Paper 2 - Question 14

The diagram below shows part of a garden which is being watered from a sprinkler.



The area being watered is in the shape of a semi-circle and a right angled triangle.

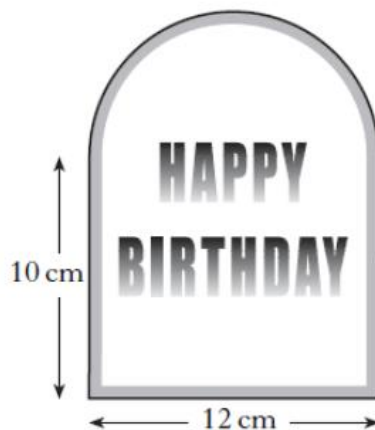
Calculate the area being watered.

4

Click [here](#) for video solution. 

2007 - Paper 2 - Question 13

The diagram below shows a birthday card.



The card consists of a rectangle and a semi-circle.

There is gold ribbon all round the border of the card.

Calculate the total length of gold ribbon needed for this card..

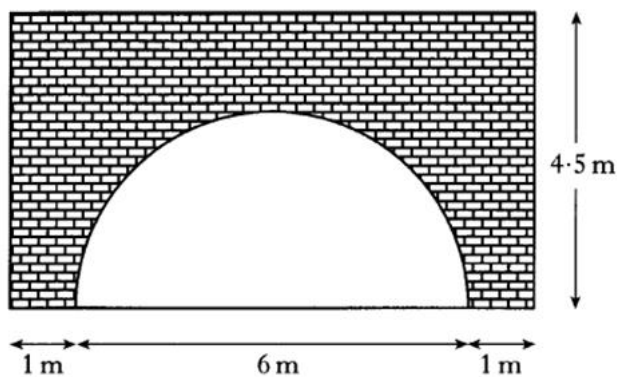
Give your answer to the **nearest centimetre**.

5

Click [here](#) for video solution. 

2006 - Paper 2 - Question 14

The diagram below shows the wall at the start of a tunnel.



The wall is in the shape of a rectangle with a semi-circular space for the tunnel.

Calculate the area of the wall in square metres.

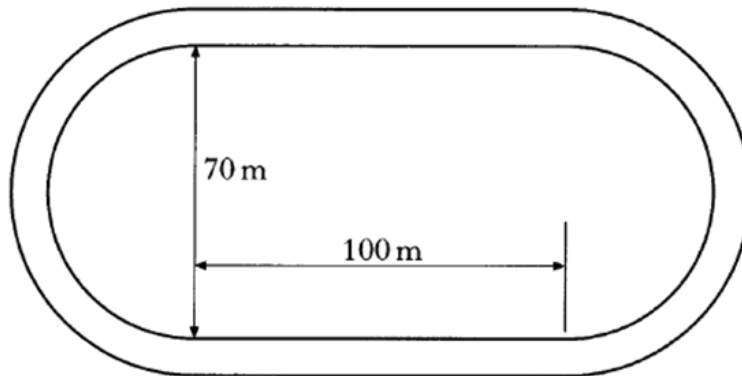
Give your answer correct to one decimal place.

5

Click [here](#) for video solution. 

2005 - Paper 2 - Question 11

The diagram below shows a speedway track.



The straights are each 100 metres long.

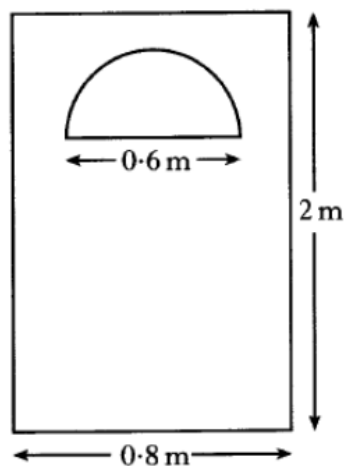
The bends are semi-circles as shown.

Calculate the perimeter of the inside of the track. 4

Click [here](#) for video solution. 

2004 - Paper 2 - Question 14

The diagram below shows a rectangular door with a window.



The window is in the shape of a semi-circle and is made of glass.

The rest of the door is made of wood.

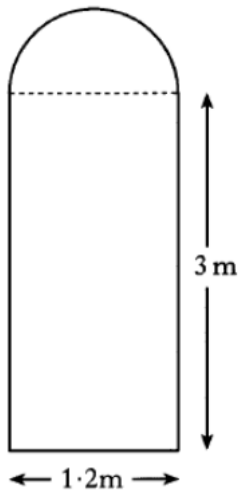
Calculate the area of the wooden part of the door.

Give your answer in square metres correct to two decimal places. 5

Click [here](#) for video solution. 

2003 - Paper 2 - Question 12

The diagram below shows a window.



The window consists of a rectangle and a semi-circle.

Calculate the area of the window.

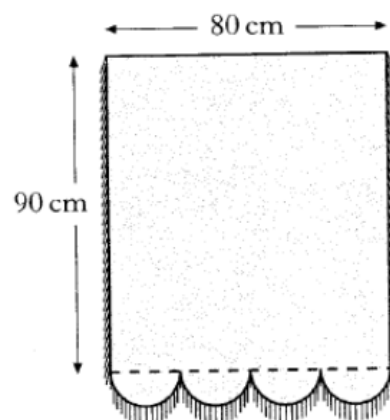
Give your answer in square metres correct to 2 decimal places. **5**

Click [here](#) for video solution. 

2002 - Paper 2 - Question 12

This window blind is in the shape of a rectangle with four equal semi-circles at the bottom.

It has braid down the two sides and round the bottom.



Calculate the total length of braid needed for this blind.

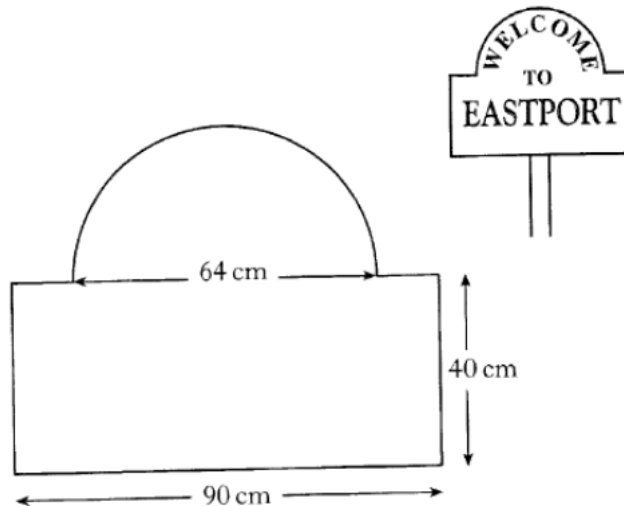
Give your answer to the nearest centimetre.

5

Click [here](#) for video solution. 

2001 - Paper 2 - Question 11

This sign is in the shape of a rectangle and a semi-circle.



Calculate the area of the sign.

Give your answer to the nearest square centimetre.

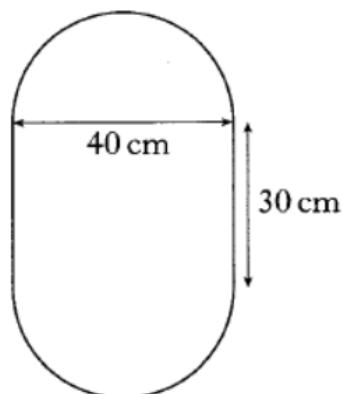
5

Click [here](#) for video solution. 

2000 - Paper 2 - Question 1

This mirror is in the shape of a rectangle with semi-circular ends.

It has a wooden edge all the way round the outside.



Calculate the total length of the wooden edge.

Give your answer to the nearest centimetre.

5

Click [here](#) for video solution. 