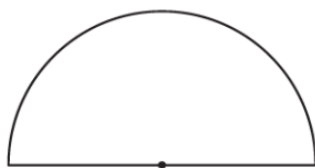
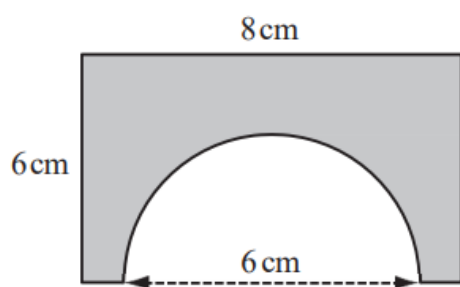


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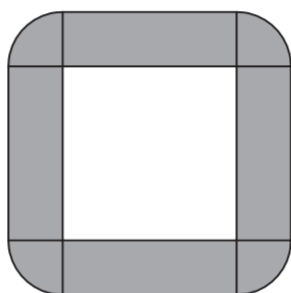
Q1. Length of the arc of the semicircle is 15cm. Calculate the area of semicircle.



Q2. A semicircle of diameter 6 cm is cut from a rectangle with sides 6 cm and 8cm. Calculate the perimeter of the shaded shape, correct to 1 decimal place.



Q3. A large conference table is made from four rectangular sections and four corner sections. Each rectangular section is 4 m long and 1.2 m wide. Each corner section is a quarter circle, radius 1.2 m.



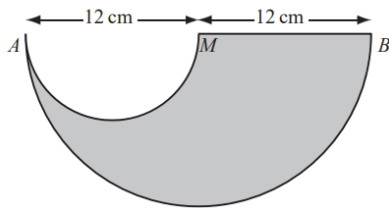
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Each person sitting at the conference table requires one metre of its outside perimeter. Calculate the greatest number of people who can sit around the outside of the table.

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Q4. The shape below is made by removing a small semi-circle from a large semi-circle.

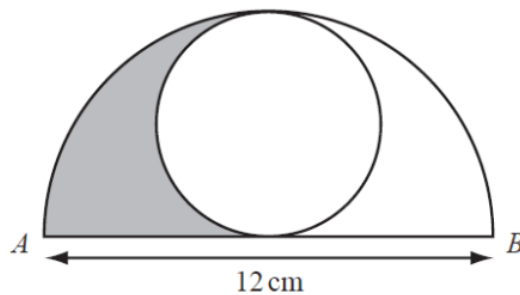
$AM = MB = 12\text{ cm}$ . Calculate the area of the shape



Q5. The largest possible circle is drawn inside a semicircle, as shown in the diagram.

The distance  $AB$  is  $12\text{ cm}$ .

- Find the shaded area.
- Find the perimeter of the shaded area.



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