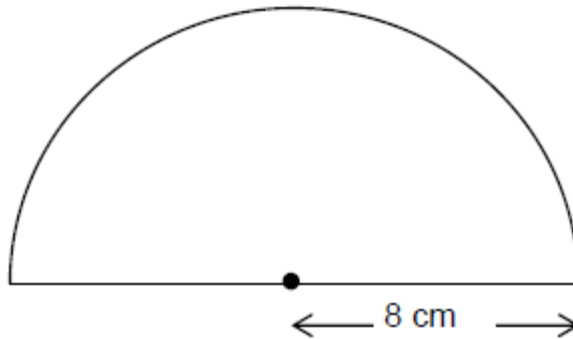**Q1.**
The diagram shows a semicircle of radius 8 cm

Not drawn accurately

8 cm

Work out the area of the semicircle.

Give your answer in terms of π.

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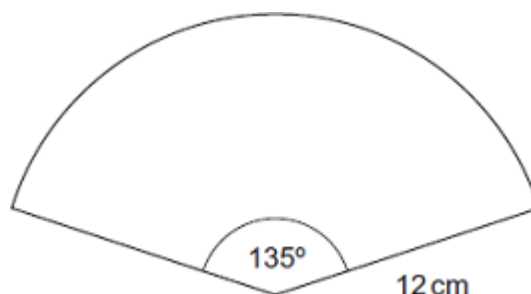Answer .... cm²

(Total 2 marks)

Q2. The diagram shows a sector of a circle, radius 12 cm.

Not drawn accurately

135°

12 cm

Show that the perimeter of the sector is greater than 52 cm.
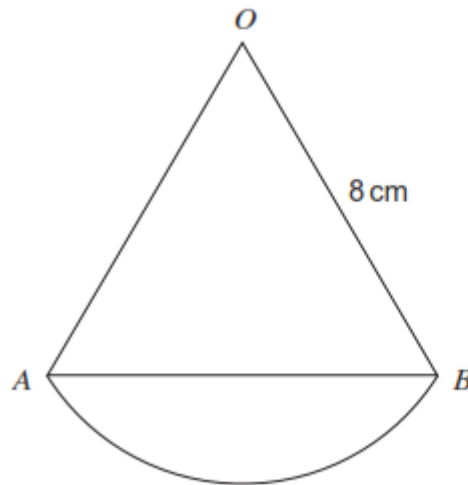
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(Total 3 marks)

Q3. The diagram shows an arc AB of a circle, centre O.
Triangle OAB is equilateral.

Not drawn
accurately

8 cm

Work out the length of arc AB.

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Answer .... cm
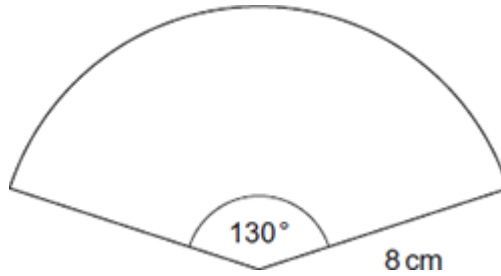
(Total 3 marks)

Q4. The diagram shows a sector of a circle.

Not drawn
accurately

130°

8 cm

Work out the area of the sector.
Give your answer to a suitable degree of accuracy.

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Answer .... cm^2

(Total 4 marks)