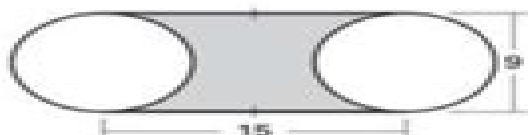
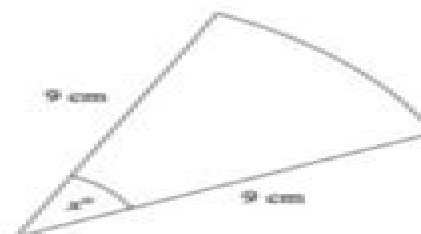


Arc length and area of sector – practice questions

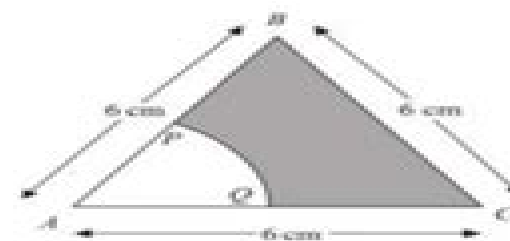
1. Find the exact value of the perimeter of the shaded figure:
a) Figure 1



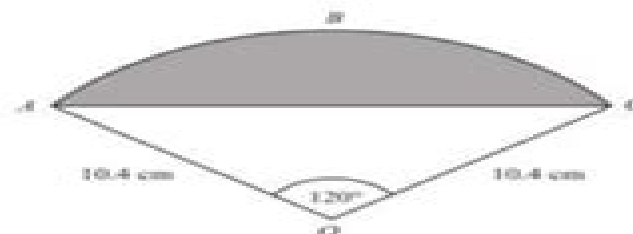
2. The diagram alongside shows a sector of a circle of radius 9 cm. The sector has a perimeter of 25 cm. Work out the value of x in degrees. Give your answer correct to one decimal place.



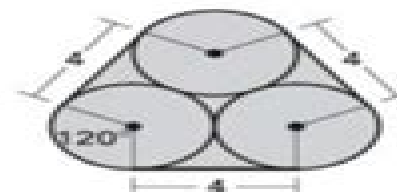
3. The diagram alongside shows an equilateral triangle ABC with sides of length 6 cm. P is the midpoint of AB . Q is the midpoint of AC . APQ is a sector of a circle, centre A . Calculate the **exact value** of the area of the shaded region.



4. The diagram alongside shows a sector $OABC$ of a circle with centre O . $OA = OC = 10.4$ cm. Angle $AOC = 120^\circ$.
a) Calculate the perimeter of the sector $OABC$. Give your answer correct to 3 significant figures.
b) Calculate the area of the shaded region. Give your answer correct to 3 significant figures.



b) Figure 2



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R Barnett

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