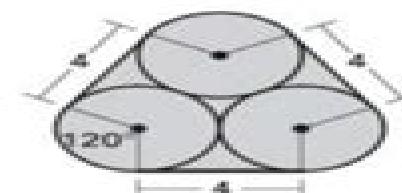


Arc length and area of sector – practice questions

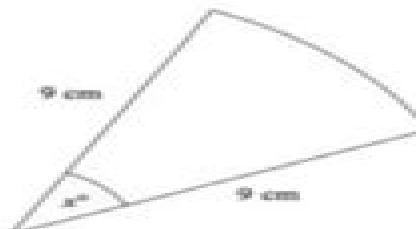
1. Find the exact value of the perimeter of the shaded figure:
 a) Figure 1.



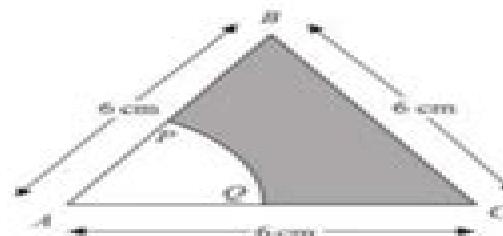
b) Figure 2.



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.

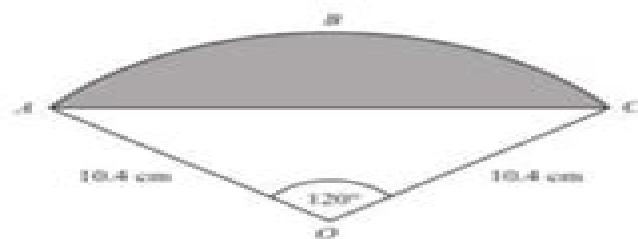


3. The diagram alongside shows an equilateral triangle ABC with sides of length 6 cm.
 P is the midpoint of AB.
 Q is the midpoint of AC.
 APQ is a sector of a circle, centre A.
 Calculate the exact value of the area of the shaded region.



4. The diagram alongside shows a sector OABC of a circle with centre O.
 $OA = OC = 10.4$ cm.
 Angle $AOC = 120^\circ$.

- Calculate the perimeter of the sector OABC. Give your answer correct to 3 significant figures.
- Calculate the area of the shaded region. Give your answer correct to 3 significant figures.



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R Barnett

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