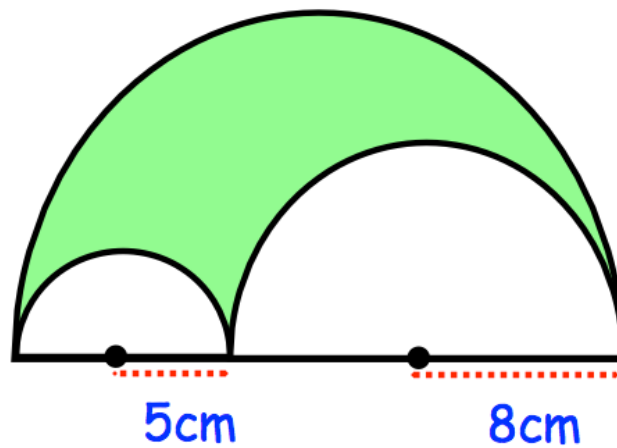


December 18th

Find the perimeter and area of the shaded region bounded by the 3 semi-circles.



Large diameter = 26cm, therefore large radius = 13cm

$$\text{Perimeter} = \frac{10\pi}{2} + \frac{16\pi}{2} + \frac{26\pi}{2} = 26\pi \text{ cm}$$

$$\text{Area} = \frac{\pi \times 13^2}{2} - \left(\frac{\pi \times 5^2}{2} + \frac{\pi \times 8^2}{2} \right) = 40\pi \text{ cm}^2$$