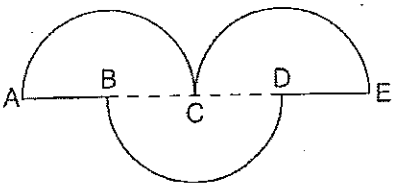
Practice Problems

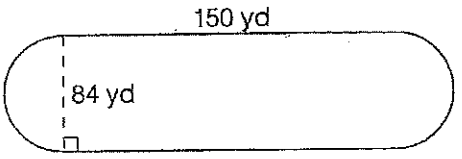
Answer each of the following questions. Show your work and write your statements clearly.

1. In the figure shown, AB = BC = CD = DE = 14 cm. Find the perimeter of the figure. $\left(\text{Take } \pi = \frac{22}{7}\right)$



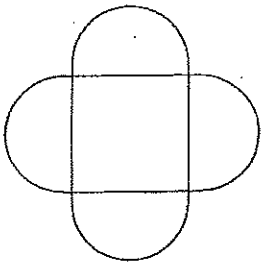
160 cm

2. The figure shows a running track. If Jim runs around it six times, what is the total distance he will cover? $\left(\text{Take } \pi = \frac{22}{7}\right)$



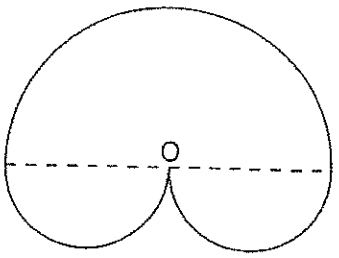
3384 yd

3. In the figure shown, the area of the square is 169 cm^2. Find the perimeter of the figure. (Take $\pi = 3.14$)



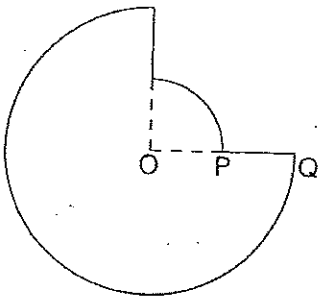
81.64 cm

4. The figure shown is made up of a big semi-circle and two smaller semi-circles. O is the center of the big semi-circle and its radius is 20 cm. Find the area of the figure. (Take $\pi = 3.14$)



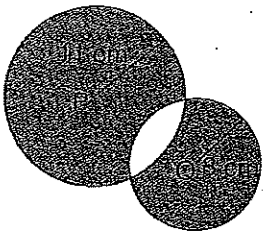
942 cm²

5. In the figure shown, OP = PQ = 16 cm. What is the area of the figure? (Take $\pi = 3.14$)



2612.48 cm²

6. In the figure shown, the area where the two circles intersect is 76.5 cm². Find the area of the shaded parts. (Take $\pi = 3.14$)



427.9 cm²