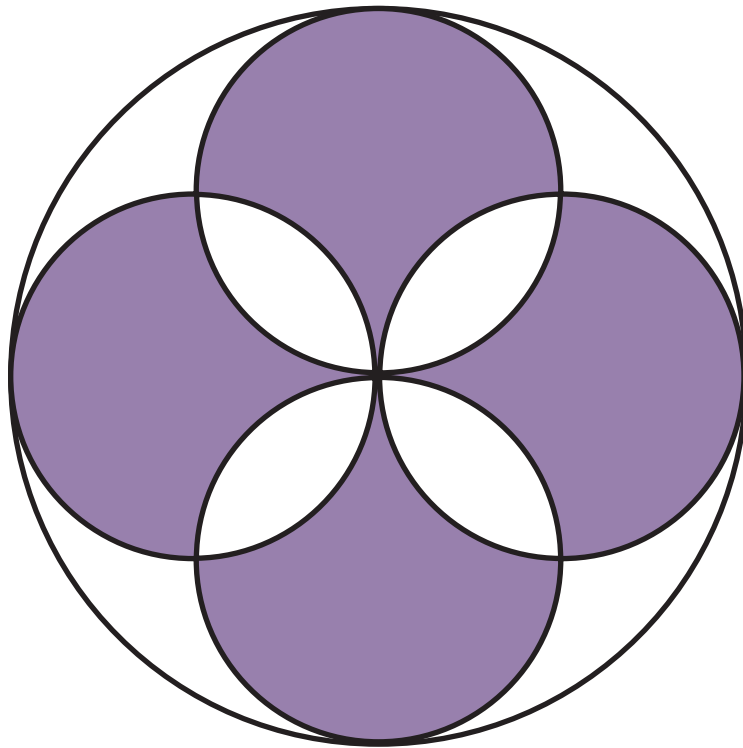




## CIRCLES

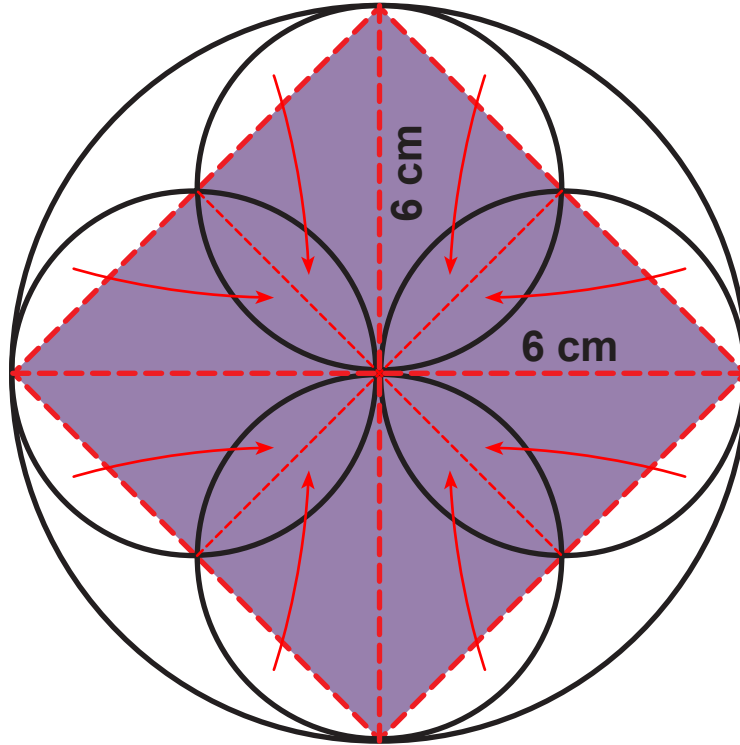
The radius of the big circle is 6 cm. Find the area of the shaded region.





## ANSWER TO

## CIRCLES



**“Move” the shaded edges of the small circles to the centre of the big circle. A shaded square is formed.**

**Divide the square into 4 small triangles. Each triangle has a base and height of 6 cm.**

$$\begin{aligned}\text{Area of each triangle} &= \frac{1}{2} \times 6 \times 6 \\ &= 18 \text{ cm}^2\end{aligned}$$

$$\begin{aligned}\text{Area of 4 triangles} &= 4 \times 18 \\ &= 72 \text{ cm}^2\end{aligned}$$