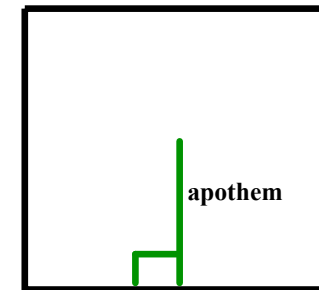


**Area of a Regular Polygon = apothem times the perimeter  
divided by 2**

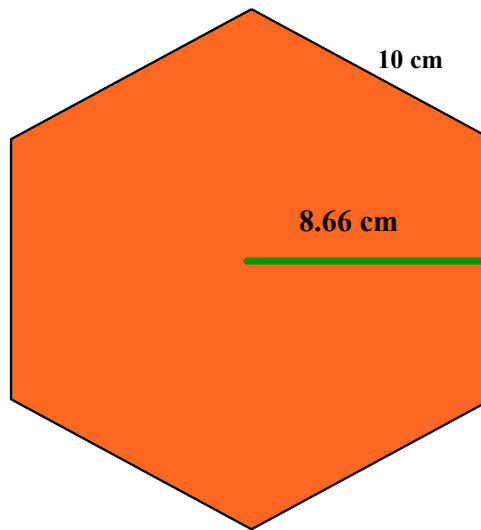
**Apothem is the distance from the  
center of a regular polygon to a side**

**The apothem must be perpendicular  
to the side (a segment from the  
center of a polygon to a vertex is  
NOT the apothem)**



**if the apothem of the  
square is 5, the side of  
the square must be 10 so  
 $ap/2$  is the area**

$$5 \times 40 / 2 = 100 \text{ square units}$$



**$ap/2 = \text{area of hexagon}$**

**$8.66 \times 60 / 2 = 259.8 \text{ square cm}$**