

# 11 - 4

## Area of Regular Polygons

### Regular Polygon

#### Apothem

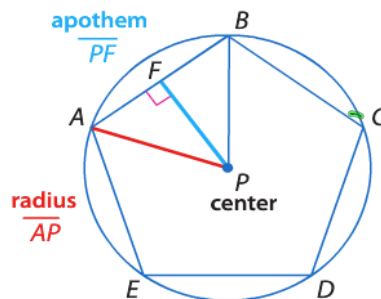
*The distance from the center to the midpoint of any side.*

*Always perpendicular!*

$$A = (1/2)Pa$$

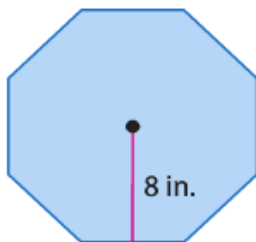
P - Perimeter

a - apothem

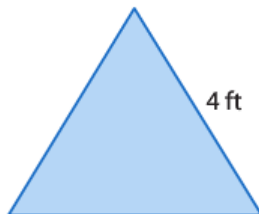


**\* Central Angle of one right triangle is always  $(360/2n)$**

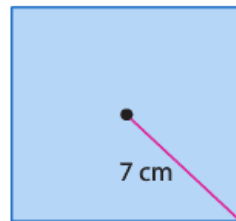
Find the Area of the Regular Octagon



Find the Area of the Regular Triangle  
(Equilateral)



Find the Area of the Regular Quadrilateral  
(Square)



## Composite Figures

*Separate the given figure into smaller basic figures*

