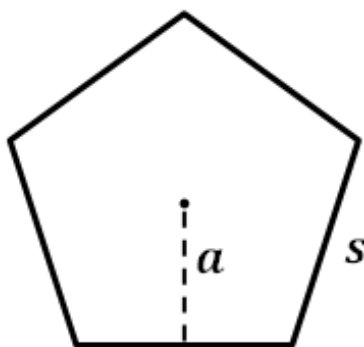


### Area of a Regular Polygon

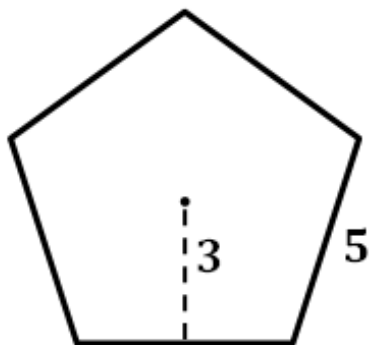


$$Area = \frac{ap}{2}$$

*a (apothem) = a line from the center of a side to the center of the polygon*

*p (perimeter) = the sum of the s (sides) of the polygon*

### Example:



Perimeter

$$\begin{aligned} p &= s \times 5 \\ &= 5 \times 5 \\ &= 25 \end{aligned}$$

Area of the Polygon

$$\begin{aligned} A &= \frac{ap}{2} \\ &= \frac{3 \times 25}{2} \\ &= \frac{75}{2} \\ &= 37.5 \text{ units}^2 \end{aligned}$$