

**To find area of a regular polygon, given a side**

**1. Find the perimeter: multiply side by # of sides**

**2. Find central angle (360 divided by # of sides)**

**3. Use an angle which is  $\frac{1}{2}$  of central angle and find the APOTHEM**

**4. area =  $\frac{1}{2}$  APOTHEM times PERIMETER**