

A Closer Look at Areas of Regular Polygons **GO!**

A **regular polygon** is a polygon in which all sides are congruent and all angles are congruent.



Equilateral triangle
 Equilateral triangle



Square



Regular pentagon

Any regular polygon can be divided into congruent isosceles triangles, as shown below. The area of the regular polygon can be found by finding the area of one of the isosceles triangles and multiplying by the number of sides of the polygon. This method can be summarized as follows in the formula:

$$\text{Area of a regular polygon} = \frac{1}{2}Pn$$

where P represents the perimeter and n represents the number

The **apothem** is a segment that connects the center of a regular polygon perpendicularly to a side of the **regular polygon**. The **apothem** is also the perpendicular distance from the center of the figure to a side. The **apothem** **measures half** of the regular polygon. In Figure 1 below, a is the length of the apothem.

The **radius** is a segment that connects the center of the regular polygon to a vertex of the polygon. The **radius** is also the distance from the center of the polygon to a vertex of the polygon. The **radius** **measures an entire side** of the regular polygon. In Figure 1 below, r is the length of the radius.



Diagonals of regular right triangles, 30° - 60° - 90° and 45° - 45° - 90° and the trigonometric ratios can be used to solve problems involving regular polygons.

Geometry Hs Mathematics Unit Lesson Key

Siddappa N.Byrareddy



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