

Area

Name: REY

Regular Polygons

Regular Polygon



n is # of sides
 s is side length
 a is apothem length

Formula:

$$P = n \cdot s$$

$$A = \frac{1}{2} P \cdot a$$

Derive the formula for the area of a regular polygon.

First, divide the polygon into congruent triangles using vertices and the center of the polygon as endpoints.

A regular polygon with n sides can be divided into n congruent triangles where the apothem is the height and the side length is the base.



So, the area of 1 triangle is $\frac{1}{2} \cdot s \cdot a$

And the total area of n triangles is $\left(\frac{1}{2} \cdot s \cdot a \right) \cdot n$

Since the perimeter of a regular polygon is $n \cdot s$, rewrite and substitute for the area of a regular polygon:

$$A = \frac{1}{2} \cdot n \cdot \left(\frac{P}{n} \right) \cdot a = \frac{1}{2} P \cdot a$$

Practice: Given side length and apothem, calculate the perimeter and area for each regular polygon.



$n = 4$
 $s = 20$
 $a = 10$

$P = (4)(20) = 80 \text{ units}$
 $A = \frac{1}{2} (80)(10) = 400 \text{ units}^2$



$n = 7$
 $s = 14$
 $a = 13.5$

$P = (7)(14) = 98 \text{ units}$
 $A = \frac{1}{2} (98)(13.5) = 661.5 \text{ units}^2$



$n = 8$
 $s = 17$
 $a = 24.14$

$P = (8)(17) = 136 \text{ units}$
 $A = \frac{1}{2} (136)(24.14) = 1648.72 \text{ units}^2$



$n = 9$
 $s = 12$
 $a = 14.49$

$P = (9)(12) = 108 \text{ units}$
 $A = \frac{1}{2} (108)(14.49) = 779.49 \text{ units}^2$



$n = 5$
 $s = 10$
 $a = 6.82$

$P = (5)(10) = 50 \text{ units}$
 $A = \frac{1}{2} (50)(6.82) = 170.5 \text{ units}^2$



$n = 6$
 $s = 10$
 $a = 8.66$

$P = (6)(10) = 60 \text{ units}$
 $A = \frac{1}{2} (60)(8.66) = 259.8 \text{ units}^2$



$n = 6$
 $s = 18$
 $a = 14.7$

$P = (6)(18) = 108 \text{ units}$
 $A = \frac{1}{2} (108)(14.7) = 793.8 \text{ units}^2$



$n = 3$
 $s = 16$
 $a = 4.7$

$P = (3)(16) = 48 \text{ units}$
 $A = \frac{1}{2} (48)(4.7) = 112.8 \text{ units}^2$

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Y Pai



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