

Area

Name KEY

Regular Polygons

Regular Polygon



apothem

$n = \# \text{ of sides}$
 $a = \text{apothem}$
 $s = \text{side length}$

Formulas

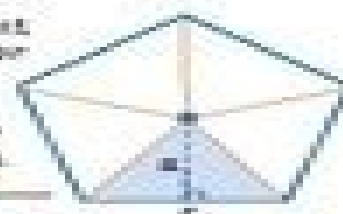
$$P = \frac{s \cdot n}{1}$$

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

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

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

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



$n = 4$
 $s = 22$
 $a = 11$

$P = (22)(4) = 88 \text{ units}$
 $A = \frac{1}{2} (11)(88) = 484 \text{ units}^2$



$n = 7$
 $s = 13$
 $a = 13.5$

$P = (13)(7) = 91 \text{ units}$
 $A = \frac{1}{2} (13.5)(91) = 614.25 \text{ units}^2$



$n = 8$
 $s = 17$
 $a = 26.18$

$P = (17)(8) = 136 \text{ units}$
 $A = \frac{1}{2} (26.18)(136) = 2258.48 \text{ units}^2$



$n = 8$
 $s = 12$
 $a = 14.49$

$P = (12)(8) = 96 \text{ units}$
 $A = \frac{1}{2} (14.49)(96) = 695.14 \text{ units}^2$



$n = 5$
 $s = 15$
 $a = 10.32$

$P = (15)(5) = 75 \text{ units}$
 $A = \frac{1}{2} (10.32)(75) = 387 \text{ units}^2$



$n = 10$
 $s = 10$
 $a = 6.46$

$P = (10)(10) = 100 \text{ units}$
 $A = \frac{1}{2} (6.46)(100) = 323 \text{ units}^2$



$n = 6$
 $s = 18$
 $a = 9\sqrt{3}$

$P = (18)(6) = 108 \text{ units}$
 $A = \frac{1}{2} (9\sqrt{3})(108) = 529.2 \text{ units}^2$



$n = 3$
 $s = 18$
 $a = 3\sqrt{3}$

$P = (18)(3) = 54 \text{ units}$
 $A = \frac{1}{2} (3\sqrt{3})(54) = 135 \text{ units}^2$

Worksheet 11 6 Apothem And Area Worksheet Answer Key

Scott C. Dulebohn



Worksheet 11 6 Apothem And Area Worksheet Answer Key:

Worksheet 11 6 Apothem And Area Worksheet Answer Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Worksheet 11 6 Apothem And Area Worksheet Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://movement.livewellcolorado.org/files/scholarship/fetch.php/Voltas%20Ac%20User%20Manual.pdf>

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