

ANSWERS

AREA OF POLYGONS

Instructions Find the area of the polygon according to the given problem

1. Calculate the area of a polygon with 5 sides, which measures 3 cm on a side and 0,5 cm on an apothem.

$$\text{Perimeter} = ns \times sl$$

15 cm	5	3 cm
-------	---	------

$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

3,75 cm ²	0,5	0,5 cm	15 cm
----------------------	-----	--------	-------

2. Calculate the area of a polygon with 3 sides, which measures 8 cm on a side and 3,5 cm on an apothem.

$$\text{Perimeter} = ns \times sl$$

24 cm	3	8 cm
-------	---	------

$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

42 cm ²	0,5	3,5 cm	24 cm
--------------------	-----	--------	-------

3. Calculate the area of a polygon with 5 sides, which measures 11 cm on a side and 5,5 cm on an apothem.

$$\text{Perimeter} = ns \times sl$$

55 cm	5	11 cm
-------	---	-------

$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

151,2 cm ²	0,5	5,5 cm	55 cm
-----------------------	-----	--------	-------

4. Calculate the area of a polygon with 4 sides, which measures 5 cm on a side and 2,5 cm on an apothem.

$$\text{Perimeter} = ns \times sl$$

20 cm	4	5 cm
-------	---	------

$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

25 cm ²	0,5	2,5 cm	20 cm
--------------------	-----	--------	-------

How Did You Do? 😊 😐 ☹️