

ANSWERS

AREA OF POLYGONS

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

1. Calculate the area of a polygon with 8 sides, which measures 2 cm on a side and 0,5 cm on an apothem.

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

16 cm	8	2 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

4 cm ²	0,5	0,5 cm	16 cm
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2. Calculate the area of a polygon with 4 sides, which measures 4,5 cm on a side and 2 cm on an apothem.

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

180 cm	4	4,5 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

180 cm ²	0,5	2 cm	180 cm
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3. Calculate the area of a polygon with 3 sides, which measures 10 cm on a side and 5 cm on an apothem.

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

30 cm	3	10 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

75 cm ²	0,5	5 cm	30 cm
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4. Calculate the area of a polygon with 5 sides, which measures 9 cm on a side and 3,5 cm on an apothem.

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

45 cm	5	9 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

78,7 cm ²	0,5	3,5 cm	45 cm
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How Did You Do? 😊 😐 😞