

# ANSWERS AREA OF POLYGONS

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

1. Calculate the area of a polygon with 3 sides, which measures 6 cm on a side and 3 cm on an apothem.

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

18 cm	=	3	×	6 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

27 cm <sup>2</sup>	=	0,5	×	3 cm	×	18 cm
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2. Calculate the area of a polygon with 5 sides, which measures 3,2 cm on a side and 0,5 cm on an apothem.

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

16 cm	=	5	×	3,2 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

4 cm <sup>2</sup>	=	0,5	×	0,5 cm	×	16 cm
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3. Calculate the area of a polygon with 5 sides, which measures 7 cm on a side and 2,5 cm on an apothem.

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

35 cm	=	5	×	7 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

43,7 cm <sup>2</sup>	=	0,5	×	2,5 cm	×	35 cm
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4. Calculate the area of a polygon with 4 sides, which measures 6,5 cm on a side and 3 cm on an apothem.

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

26 cm	=	4	×	6,5 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

39 cm <sup>2</sup>	=	0,5	×	3 cm	×	26 cm
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How Did You Do? 😊 😐 😞