

ANSWERS

AREA OF POLYGONS

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

1. Calculate the area of a polygon with 6 sides, which measures 14 cm on a side and 6,5 cm on an apothem.

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

84 cm	=	6	×	14 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

273 cm ²	=	0,5	×	6,5 cm	×	84 cm
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2. Calculate the area of a polygon with 4 sides, which measures 16 cm on a side and 7,5 cm on an apothem.

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

64 cm	=	4	×	16 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

240 cm ²	=	0,5	×	7,5 cm	×	64 cm
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3. Calculate the area of a polygon with 5 sides, which measures 20 cm on a side and 11 cm on an apothem.

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

100 cm	=	5	×	20 cm
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$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

550 cm ²	=	0,5	×	11 cm	×	100 cm
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4. Calculate the area of a polygon with 6 sides, which measures 4 cm on a side and 1,5 cm on an apothem.

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

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

18 cm ²	=	0,5	×	1,5 cm	×	24 cm
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How Did You Do? 😊 😐 😞