

Name : _____

Class: _____

AREA OF A POLYGON

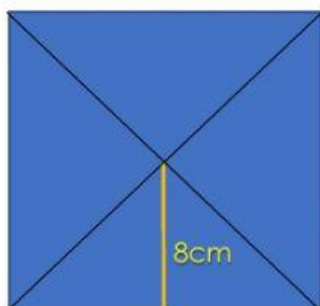
Solve for the area of a polygon using the given equation below:

$$A = \frac{1}{2} \times n \times \text{length of side} \times \text{apothem}$$

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

Show your work

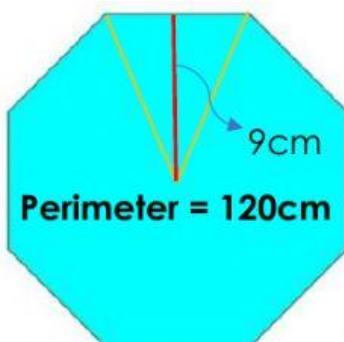
1.



16cm

$$\begin{aligned} A &= \frac{1}{2} \times n \times s \times a \\ &= \\ &= \text{cm}^2 \end{aligned}$$

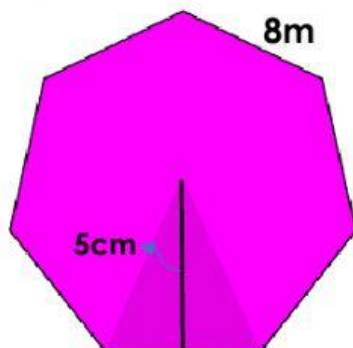
2.



Perimeter = 120cm

$$\begin{aligned} A &= \frac{1}{2} \times \text{perimeter} \times a \\ &= \\ &= \text{cm}^2 \end{aligned}$$

3.

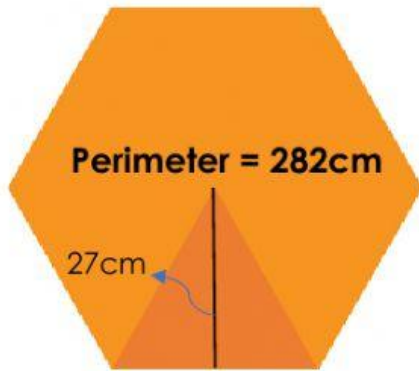


5cm

8m

$$\begin{aligned} A &= \frac{1}{2} \times n \times s \times a \\ &= \\ &= \text{cm}^2 \end{aligned}$$

4.



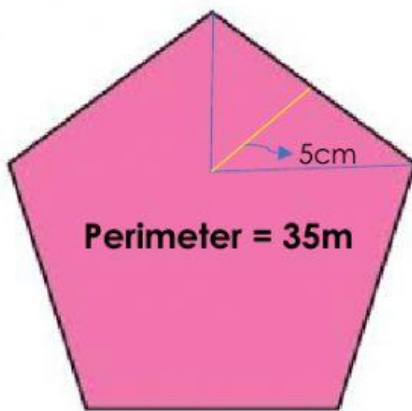
$$A = \frac{1}{2} \times \text{perimeter} \times a$$

=

=

cm²

5.



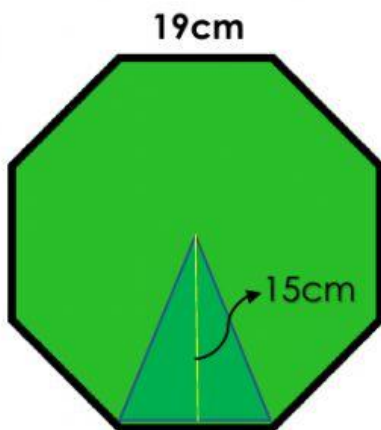
$$A = \frac{1}{2} \times \text{perimeter} \times a$$

=

=

cm²

6.



$$A = \frac{1}{2} \times n \times s \times a$$

=

=

cm²