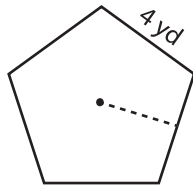


Finding Apothem

Example:

Find the apothem of the polygon.



$$\text{Perimeter} = \text{number of sides} \times \text{side length}$$

$$= 5 \times 4 = \mathbf{20 \text{ yd}}$$

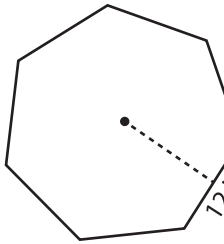
$$\text{Area} = 27.5 \text{ yd}^2$$

$$\text{Apothem} = \frac{2 \times \text{area}}{\text{perimeter}}$$

$$= \frac{2 \times 27.5}{20} = \mathbf{2.75 \text{ yd}}$$

Find the perimeter and apothem of each polygon. Round your answer to two decimal places.

1)

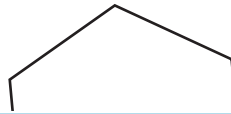


$$\text{Area} = 523.26 \text{ in}^2$$

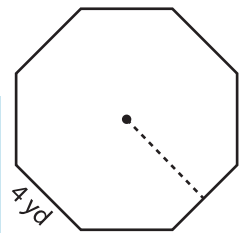
$$\text{Perimeter} = \underline{\hspace{2cm}}$$

$$\text{Apothem} = \underline{\hspace{2cm}}$$

2)



3)

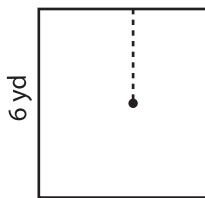


$$\text{Area} = 77.26 \text{ yd}^2$$

$$\text{Perimeter} = \underline{\hspace{2cm}}$$

$$\text{Apothem} = \underline{\hspace{2cm}}$$

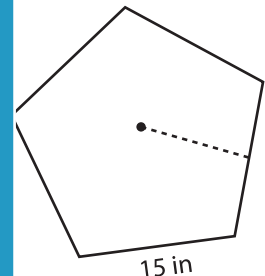
4)



$$\text{Area} = 36 \text{ yd}^2$$

$$\text{Perimeter} = \underline{\hspace{2cm}}$$

$$\text{Apothem} = \underline{\hspace{2cm}}$$

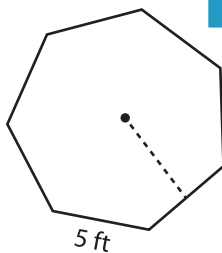


$$\text{Area} = 387.13 \text{ in}^2$$

$$\text{Perimeter} = \underline{\hspace{2cm}}$$

$$\text{Apothem} = \underline{\hspace{2cm}}$$

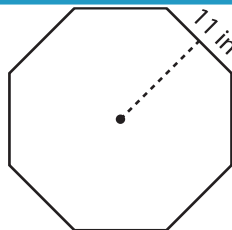
7)



$$\text{Area} = 90.84 \text{ ft}^2$$

$$\text{Perimeter} = \underline{\hspace{2cm}}$$

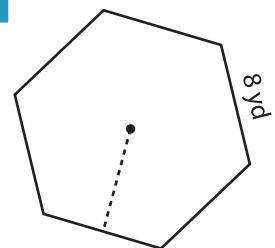
$$\text{Apothem} = \underline{\hspace{2cm}}$$



$$\text{Area} = 584.26 \text{ in}^2$$

$$\text{Perimeter} = \underline{\hspace{2cm}}$$

$$\text{Apothem} = \underline{\hspace{2cm}}$$



$$\text{Area} = 166.26 \text{ yd}^2$$

$$\text{Perimeter} = \underline{\hspace{2cm}}$$

$$\text{Apothem} = \underline{\hspace{2cm}}$$

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