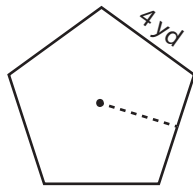


## Finding Apothem

**Example:**

Find the apothem of the polygon.



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

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

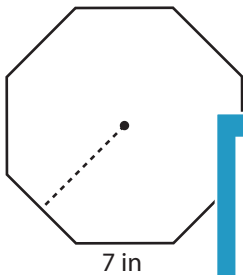
$$\text{Area} = 27.5 \text{ yd}^2$$

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

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

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

1)

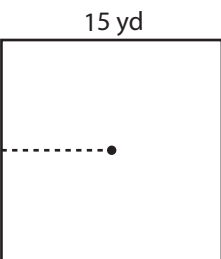
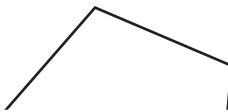


$$\text{Area} = 236.6 \text{ in}^2$$

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

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

2)

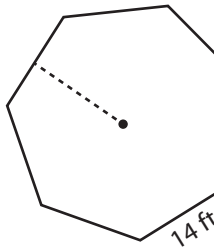


$$\text{Area} = 225 \text{ yd}^2$$

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

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

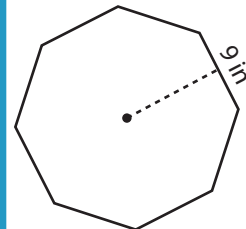
4)



$$\text{Area} = 712.45 \text{ ft}^2$$

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

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

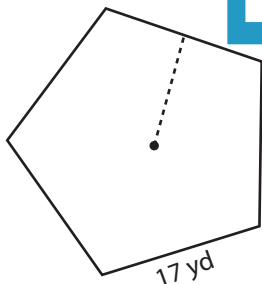


$$\text{Area} = 390.93 \text{ in}^2$$

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

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

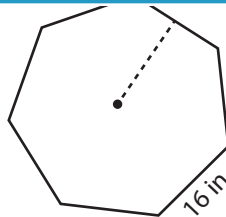
7)



$$\text{Area} = 497.24 \text{ yd}^2$$

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

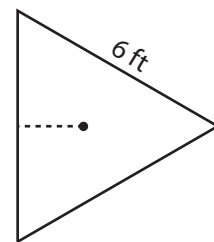
$$\text{Apothem} = \underline{\hspace{2cm}}$$



$$\text{Area} = 930.16 \text{ in}^2$$

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

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



$$\text{Area} = 15.59 \text{ ft}^2$$

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

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

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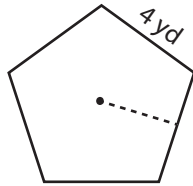
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**Finding Apothem****Example:**

Find the apothem of the polygon.



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

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

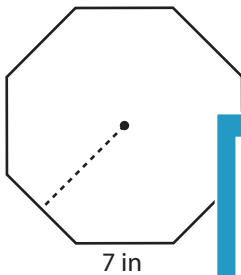
$$\text{Area} = 27.5 \text{ yd}^2$$

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

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

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

1)

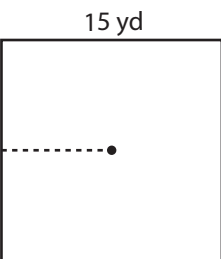
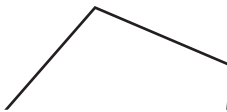


$$\text{Area} = 236.6 \text{ in}^2$$

$$\text{Perimeter} = \mathbf{56 \text{ in}}$$

$$\text{Apothem} = \mathbf{8.45 \text{ in}}$$

2)



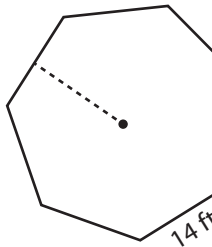
$$\text{Area} = 225 \text{ yd}^2$$

$$\text{Perimeter} = \mathbf{60 \text{ yd}}$$

$$\text{Apothem} = \mathbf{7.5 \text{ yd}}$$

3)

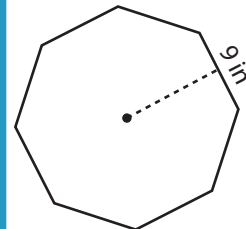
4)



$$\text{Area} = 712.45 \text{ ft}^2$$

$$\text{Perimeter} = \mathbf{98 \text{ ft}}$$

$$\text{Apothem} = \mathbf{14.54 \text{ ft}}$$

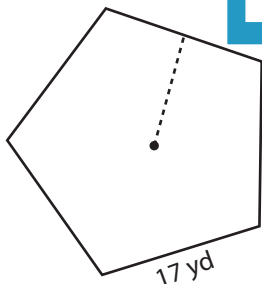


$$\text{Area} = 390.93 \text{ in}^2$$

$$\text{Perimeter} = \mathbf{72 \text{ in}}$$

$$\text{Apothem} = \mathbf{10.86 \text{ in}}$$

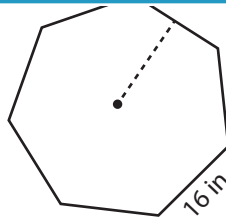
7)



$$\text{Area} = 497.24 \text{ yd}^2$$

$$\text{Perimeter} = \mathbf{85 \text{ yd}}$$

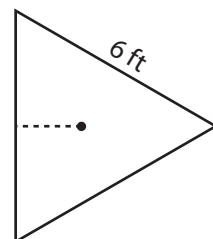
$$\text{Apothem} = \mathbf{11.7 \text{ yd}}$$



$$\text{Area} = 930.16 \text{ in}^2$$

$$\text{Perimeter} = \mathbf{112 \text{ in}}$$

$$\text{Apothem} = \mathbf{16.61 \text{ in}}$$



$$\text{Area} = 15.59 \text{ ft}^2$$

$$\text{Perimeter} = \mathbf{18 \text{ ft}}$$

$$\text{Apothem} = \mathbf{1.73 \text{ ft}}$$

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