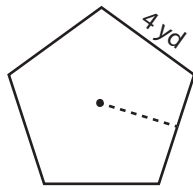


Finding Apothem

Example:

Find the apothem of the polygon.



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

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

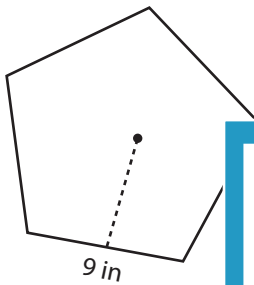
$$\text{Area} = 27.5 \text{ yd}^2$$

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

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

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

1)



$$\text{Area} = 139.37 \text{ in}^2$$

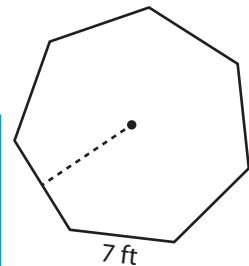
$$\text{Perimeter} = \underline{\hspace{2cm}}$$

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

2)



3)

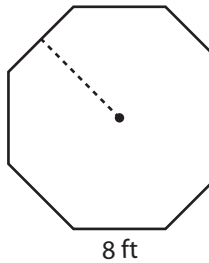


$$\text{Area} = 178.05 \text{ ft}^2$$

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

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

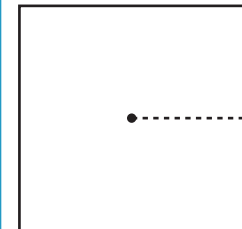
4)



$$\text{Area} = 309.12 \text{ ft}^2$$

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

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



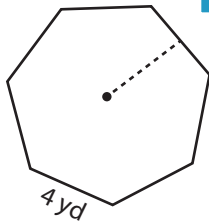
$$13 \text{ yd}$$

$$\text{Area} = 169 \text{ yd}^2$$

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

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

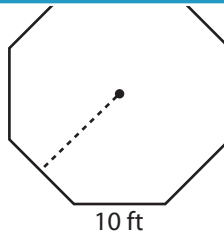
7)



$$\text{Area} = 58.14 \text{ yd}^2$$

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

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

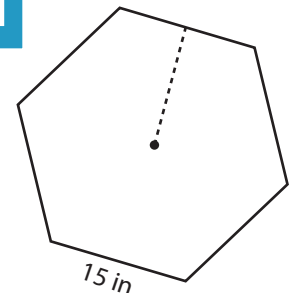


$$10 \text{ ft}$$

$$\text{Area} = 482.86 \text{ ft}^2$$

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

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



$$15 \text{ in}$$

$$\text{Area} = 584.52 \text{ in}^2$$

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

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

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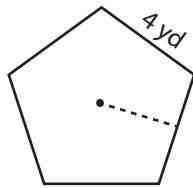
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Finding Apothem**Example:**

Find the apothem of the polygon.



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

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

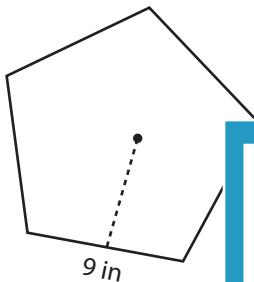
$$\text{Area} = 27.5 \text{ yd}^2$$

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

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

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

1)

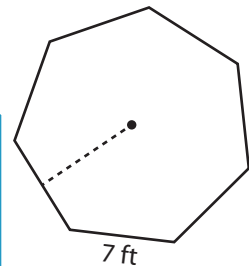


$$\text{Area} = 139.37 \text{ in}^2$$

$$\text{Perimeter} = \mathbf{45 \text{ in}}$$

$$\text{Apothem} = \mathbf{6.19 \text{ in}}$$

2)

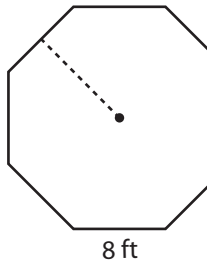


$$\text{Area} = 178.05 \text{ ft}^2$$

$$\text{Perimeter} = \mathbf{49 \text{ ft}}$$

$$\text{Apothem} = \mathbf{7.27 \text{ ft}}$$

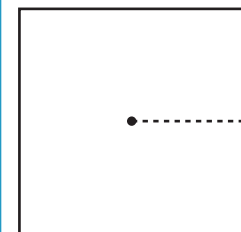
4)



$$\text{Area} = 309.12 \text{ ft}^2$$

$$\text{Perimeter} = \mathbf{64 \text{ ft}}$$

$$\text{Apothem} = \mathbf{9.66 \text{ ft}}$$



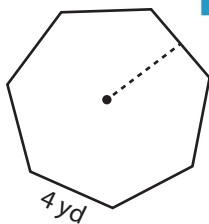
$$13 \text{ yd}$$

$$\text{Area} = 169 \text{ yd}^2$$

$$\text{Perimeter} = \mathbf{52 \text{ yd}}$$

$$\text{Apothem} = \mathbf{6.5 \text{ yd}}$$

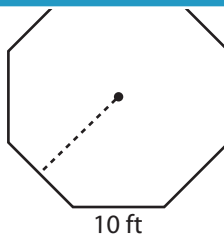
7)



$$\text{Area} = 58.14 \text{ yd}^2$$

$$\text{Perimeter} = \mathbf{28 \text{ yd}}$$

$$\text{Apothem} = \mathbf{4.15 \text{ yd}}$$

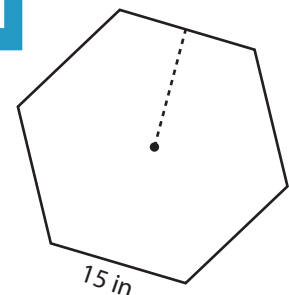


$$10 \text{ ft}$$

$$\text{Area} = 482.86 \text{ ft}^2$$

$$\text{Perimeter} = \mathbf{80 \text{ ft}}$$

$$\text{Apothem} = \mathbf{12.07 \text{ ft}}$$



$$15 \text{ in}$$

$$\text{Area} = 584.52 \text{ in}^2$$

$$\text{Perimeter} = \mathbf{90 \text{ in}}$$

$$\text{Apothem} = \mathbf{12.99 \text{ in}}$$

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