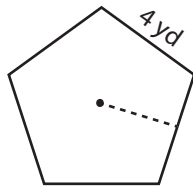


Finding Apothem

Example:

Find the apothem of the polygon.



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

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

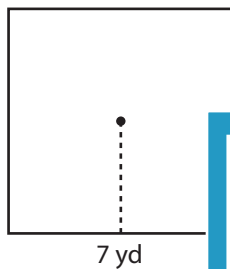
$$\text{Area} = 27.5 \text{ yd}^2$$

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

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

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

1)

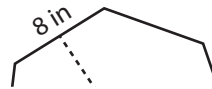


$$\text{Area} = 49 \text{ yd}^2$$

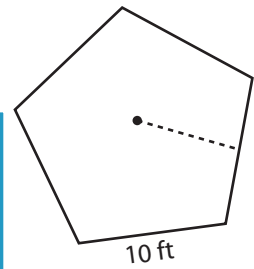
$$\text{Perimeter} = \underline{\hspace{2cm}}$$

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

2)



3)

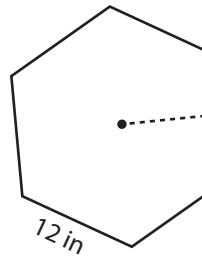


$$\text{Area} = 172.06 \text{ ft}^2$$

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

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

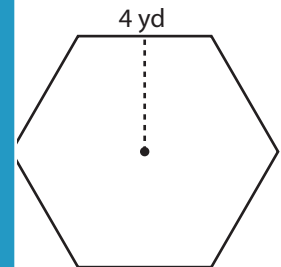
4)



$$\text{Area} = 374.09 \text{ in}^2$$

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

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

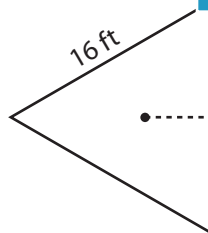


$$\text{Area} = 41.57 \text{ yd}^2$$

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

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

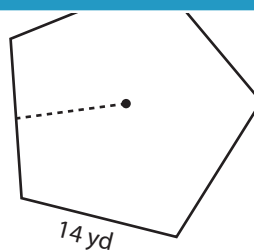
7)



$$\text{Area} = 110.85 \text{ ft}^2$$

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

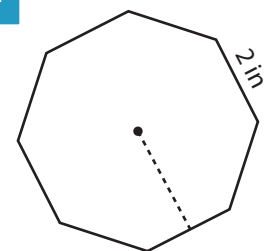
$$\text{Apothem} = \underline{\hspace{2cm}}$$



$$\text{Area} = 337.23 \text{ yd}^2$$

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

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



$$\text{Area} = 19.31 \text{ in}^2$$

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

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

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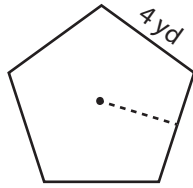
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Finding Apothem**Example:**

Find the apothem of the polygon.



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

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

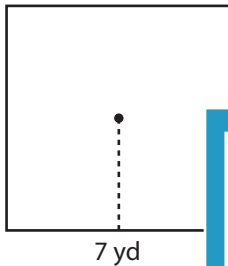
$$\text{Area} = 27.5 \text{ yd}^2$$

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

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

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

1)

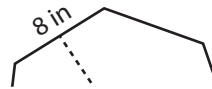


$$\text{Area} = 49 \text{ yd}^2$$

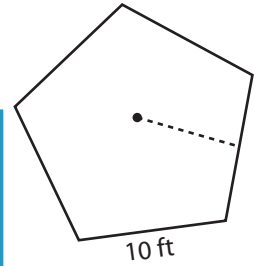
$$\text{Perimeter} = \mathbf{28 \text{ yd}}$$

$$\text{Apothem} = \mathbf{3.5 \text{ yd}}$$

2)



3)

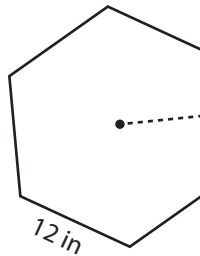


$$\text{Area} = 172.06 \text{ ft}^2$$

$$\text{Perimeter} = \mathbf{50 \text{ ft}}$$

$$\text{Apothem} = \mathbf{6.88 \text{ ft}}$$

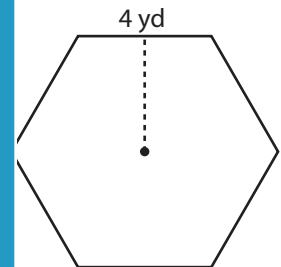
4)



$$\text{Area} = 374.09 \text{ in}^2$$

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

$$\text{Apothem} = \mathbf{10.39 \text{ in}}$$

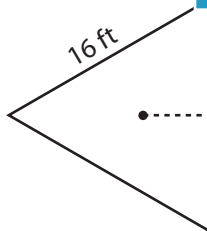


$$\text{Area} = 41.57 \text{ yd}^2$$

$$\text{Perimeter} = \mathbf{24 \text{ yd}}$$

$$\text{Apothem} = \mathbf{3.46 \text{ yd}}$$

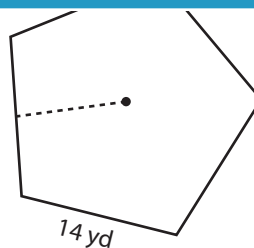
7)



$$\text{Area} = 110.85 \text{ ft}^2$$

$$\text{Perimeter} = \mathbf{48 \text{ ft}}$$

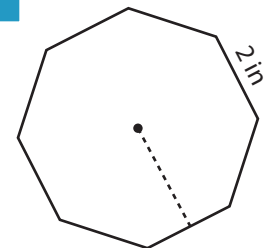
$$\text{Apothem} = \mathbf{4.62 \text{ ft}}$$



$$\text{Area} = 337.23 \text{ yd}^2$$

$$\text{Perimeter} = \mathbf{70 \text{ yd}}$$

$$\text{Apothem} = \mathbf{9.63 \text{ yd}}$$



$$\text{Area} = 19.31 \text{ in}^2$$

$$\text{Perimeter} = \mathbf{16 \text{ in}}$$

$$\text{Apothem} = \mathbf{2.41 \text{ in}}$$

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