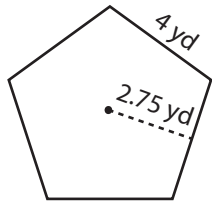


Name : _____

Area of a Polygon

Example:

Find the area of the polygon.



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

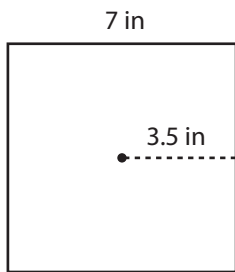
$$= 5 \times 4 = 20 \text{ yd}$$

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

$$= \frac{1}{2} \times 2.75 \times 20 = \mathbf{27.5 \text{ yd}^2}$$

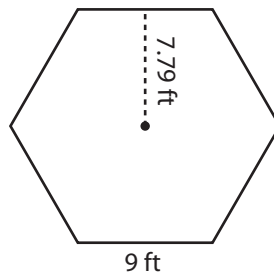
Find the area of each polygon using the given apothem. Round your answer to two decimal places.

1)



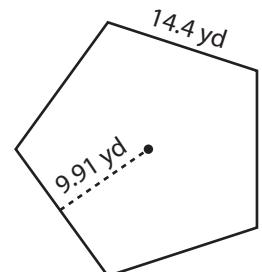
Area = _____

2)



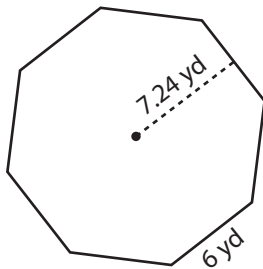
Area = _____

3)



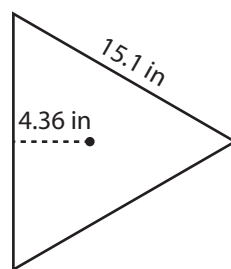
Area = _____

4)



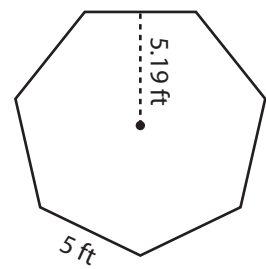
Area = _____

5)



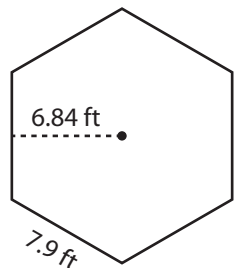
Area = _____

6)



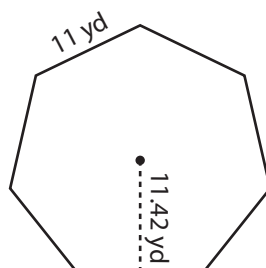
Area = _____

7)



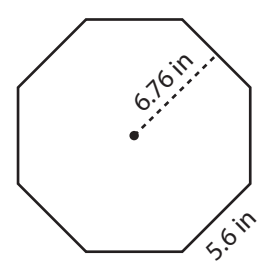
Area = _____

8)



Area = _____

9)



Area = _____

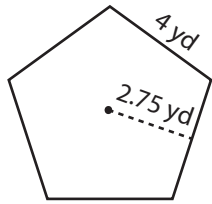
Name : _____

Answer key

Area of a Polygon

Example:

Find the area of the polygon.



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

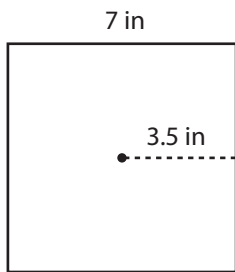
$$= 5 \times 4 = 20 \text{ yd}$$

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

$$= \frac{1}{2} \times 2.75 \times 20 = \mathbf{27.5 \text{ yd}^2}$$

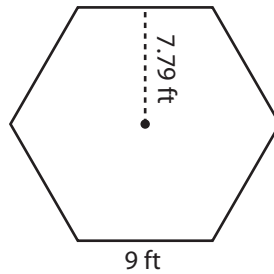
Find the area of each polygon using the given apothem. Round your answer to two decimal places.

1)



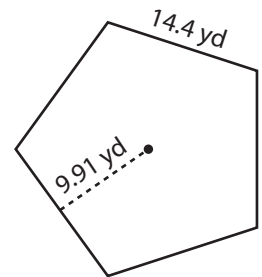
Area = 49 in²

2)



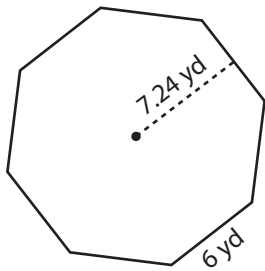
Area = 210.33 ft²

3)



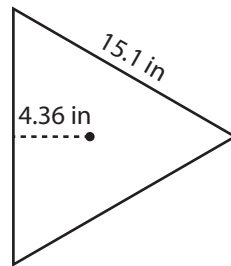
Area = 356.76 yd²

4)



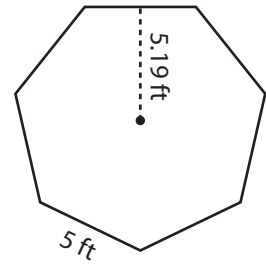
Area = 173.76 yd²

5)



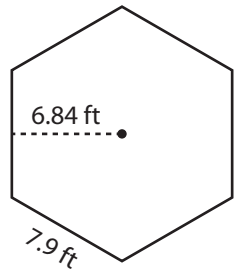
Area = 98.75 in²

6)



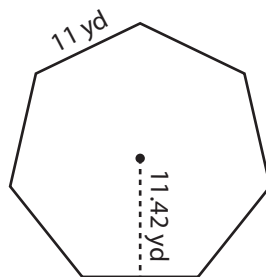
Area = 90.83 ft²

7)



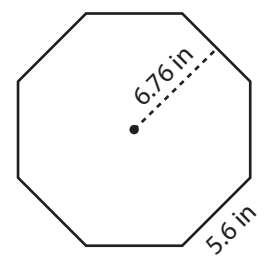
Area = 162.11 ft²

8)



Area = 439.67 yd²

9)



Area = 151.42 in²