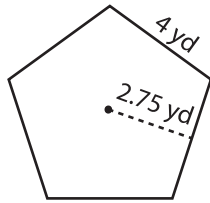


## Area of a Polygon

Example:

Find the area of the polygon.



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

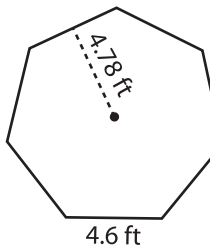
$$= 5 \times 4 = 20 \text{ yd}$$

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

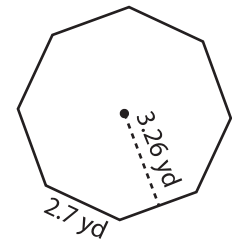
$$= \frac{1}{2} \times 2.75 \times 20 = \mathbf{27.5 \text{ yd}^2}$$

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

1)

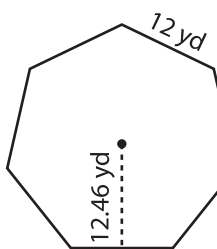


Area = \_\_\_\_\_

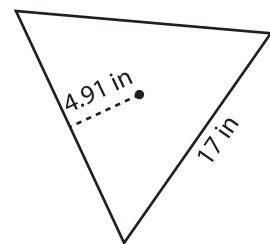


Area = \_\_\_\_\_

4)

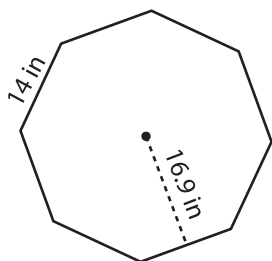


Area = \_\_\_\_\_



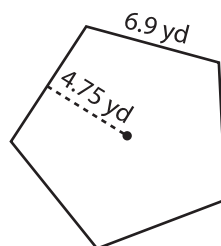
Area = \_\_\_\_\_

7)



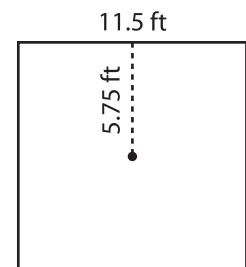
Area = \_\_\_\_\_

8)



Area = \_\_\_\_\_

9)



Area = \_\_\_\_\_

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