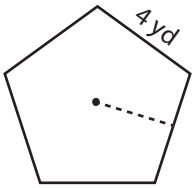
Name : _____

L1S5

Finding Apothem

Example:

Find the apothem of the polygon.



Perimeter = number of sides × side length

$= 5 \times 4 =$ **20 yd**

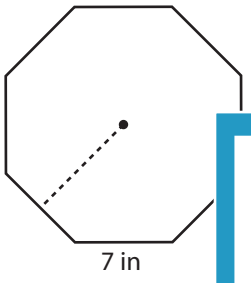
Area = 27.5 yd²

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

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

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

1)



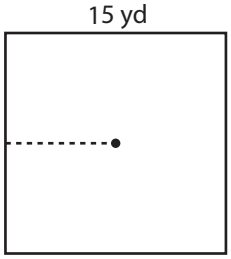
Area = 236.6 in

Perimeter = _____

Apothem = _____

2)

3)

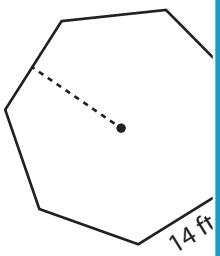


Area = 225 yd²

rimeter = _____

othem = _____

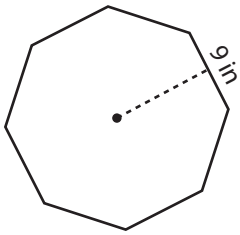
4)



Area = 712.45 f

Perimeter = _____

Apothem = _____

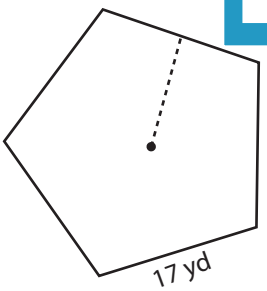


Area = 390.93 in²

rimeter = _____

othem = _____

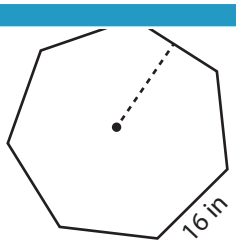
7)



Area = 497.24 yd²

Perimeter = _____

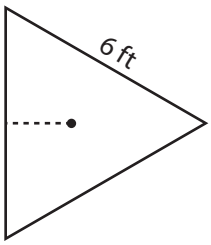
Apothem = _____



Area = 930.16 in²

Perimeter = _____

Apothem = _____



Area = 15.59 ft²

Perimeter = _____

Apothem = _____

Name : _____

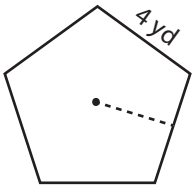
Answer key

L1S5

Finding Apothem

Example:

Find the apothem of the polygon.



Perimeter = number of sides × side length

= 5 × 4 = **20 yd**

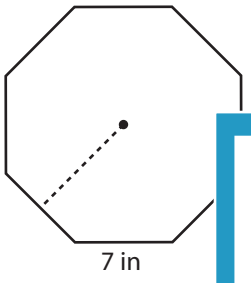
Area = 27.5 yd²

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

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

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

1)



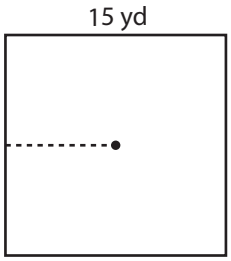
Area = 236.6 in

Perimeter = **56 i**

Apothem = **8.45**

2)

3)

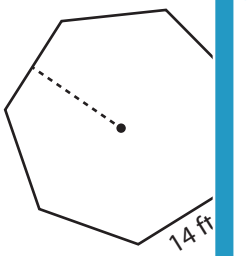


Area = 225 yd²

rimeter = **60 yd**

othem = **7.5 yd**

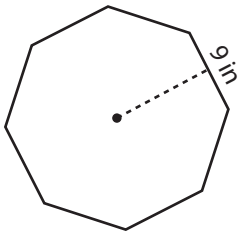
4)



Area = 712.45 f

Perimeter = **98 f**

Apothem = **14.5**

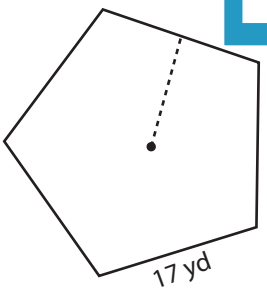


Area = 390.93 in²

rimeter = **72 in**

othem = **10.86 in**

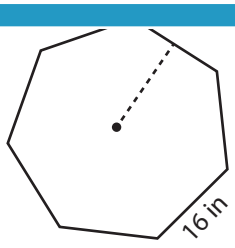
7)



Area = 497.24 yd²

Perimeter = **85 yd**

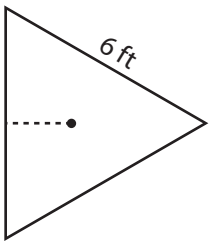
Apothem = **11.7 yd**



Area = 930.16 in²

Perimeter = **112 in**

Apothem = **16.61 in**



Area = 15.59 ft²

Perimeter = **18 ft**

Apothem = **1.73 ft**