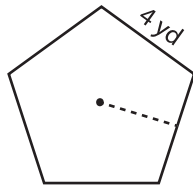## Finding Apothem

Example:

Find the apothem of the polygon.

Perimeter = number of sides × side length

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

Area = 27.5 yd²

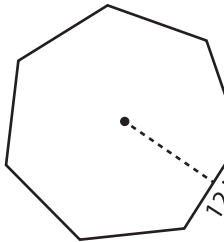$\text{Apothem} = \dfrac{2 \times \text{area}}{\text{perimeter}}$

$= \dfrac{2 \times 27.5}{20} =$ **2.75 yd**

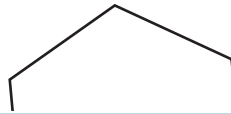Find the perimeter and apothem of each polygon. Round your answer to two decimal places.

1)

Area = 523.26 i...

Perimeter = _____
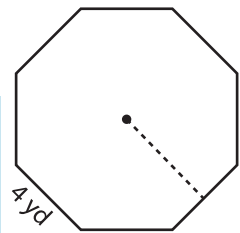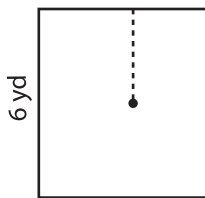
Apothem = _____

2)

3)

Area = 77.26 yd²

...rimeter = _____

...pothem = _____

4)

6 yd

Area = 36 yd²

Perimeter = _____

Apothem = _____

15 in

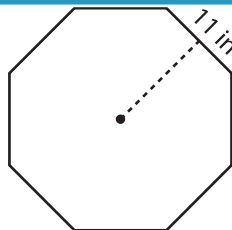Area = 387.13 in²

...rimeter = _____

...pothem = _____

7)

5 ft
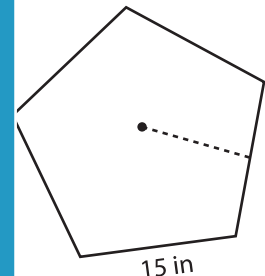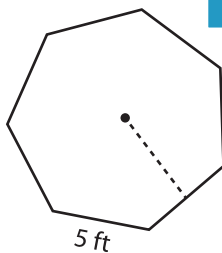
Area = 90.84 ft²

Perimeter = _____

Apothem = _____

11 in

Area = 584.26 in²

Perimeter = _____

Apothem = _____

8 yd
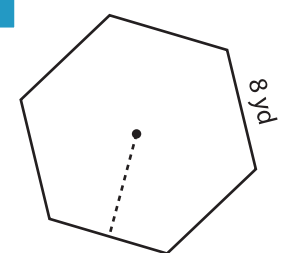
Area = 166.26 yd²

Perimeter = _____

Apothem = _____