Finding Apothem

Name : _____

Example:

Find the apothem of the polygon.
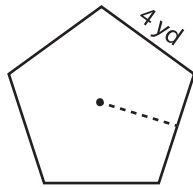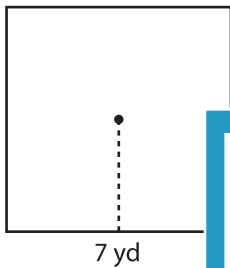
Perimeter = number of sides × side length

= 5 × 4 = **20 yd**

Area = 27.5 yd²

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

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

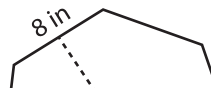Find the perimeter and apothem of each polygon. Round your answer to two decimal places.
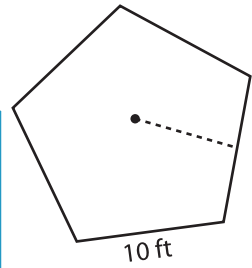
1)

7 yd
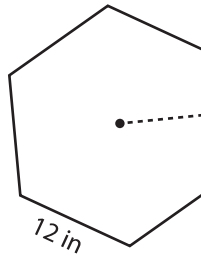
Area = 49 yd²

Perimeter = _____

Apothem = _____

2)

8 in

3)

10 ft

Area = 172.06 ft²

Perimeter = _____

Apothem = _____

4)

12 in

Area = 374.09 i

Perimeter = _____

Apothem = _____

4 yd
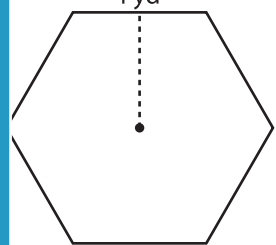
Area = 41.57 yd²

Perimeter = _____

Apothem = _____

7)

16 ft
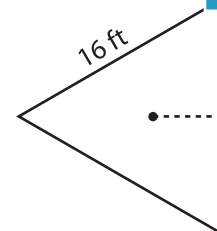
Area = 110.85 ft²

Perimeter = _____

Apothem = _____

14 yd
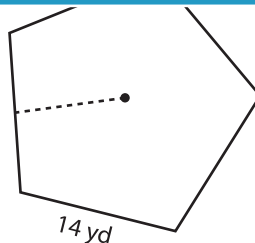
Area = 337.23 yd²

Perimeter = _____

Apothem = _____

2 in
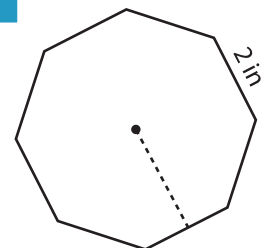
Area = 19.31 in²

Perimeter = _____

Apothem = _____

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