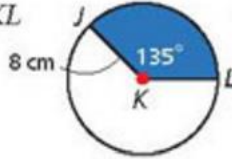1. **Vocabulary** In a circle, the region bounded by a chord and an arc is called a
   ___?___ . (*sector* or *segment*)

Find the area of each sector. Give your answer in terms of π and rounded to the nearest hundredth.
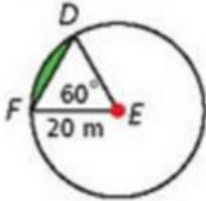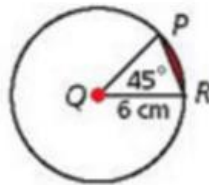
2. sector *PQR*

6 m
Q • P
90°
R
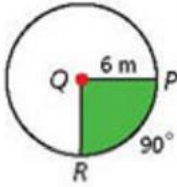
3. sector *JKL*

J
8 cm
135°
K
L

Multi-Step Find the area of each segment to the nearest hundredth.

7.

D
60°
F • E
20 m

8.

P
45°
Q • R
6 cm

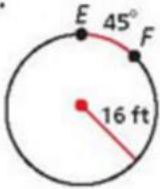**Find each arc length. Give your answer in terms of π and rounded to the nearest hundredth.**

9. $\overarc{EF}$

E 45° F
16 ft

10. $\overarc{PQ}$

9 m
P • Q
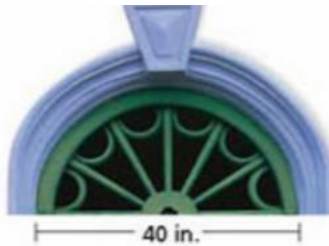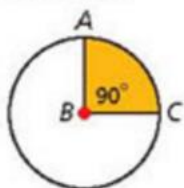120°
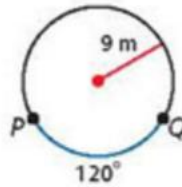
11. an arc with measure 20° in a circle with radius 6 in.

15. **Architecture** A *lunette* is a semicircular
    window that is sometimes placed above a
    doorway or above a rectangular window.
    To the nearest square inch, what is the
    area of the lunette?

|← 40 in. →|

Find the radius of each circle.

26. area of sector
$ABC = 9\pi$

32. What is the area of sector *AOB*?

    Ⓐ 4π Ⓑ 16π Ⓒ 32π Ⓓ 64π

33. What is the length of $\widehat{AB}$?

    Ⓕ 2π Ⓖ 4π Ⓗ 8π Ⓙ 16π