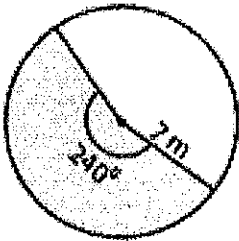# AREA of A Sector   Act. #24
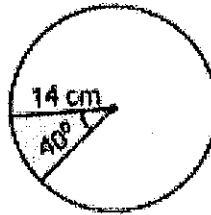
Find the area of each shaded region. Round the answer to two decimal places. (use π=3.14)

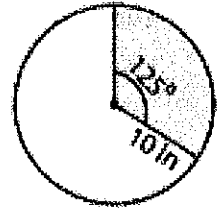**1)**

240°   7 m

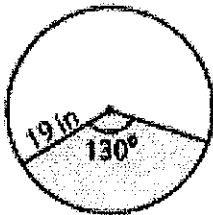Area = _____

2)

14 cm
40°

Area = _____

3)

125°
10 in

Area = _____

4)

19 in
130°

Area = _____

5)

15 ft
210°

Area = _____

6)

160°
12 m

Area = _____

7)

6 ft
150°

Area = _____

8)

11 cm
120°

Area = _____

9)

80°
18 ft
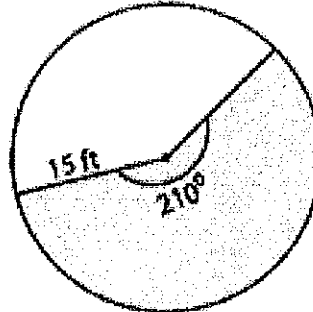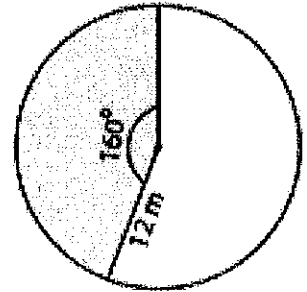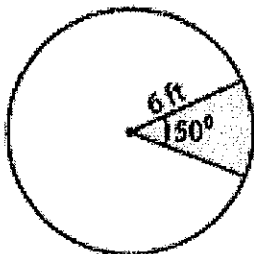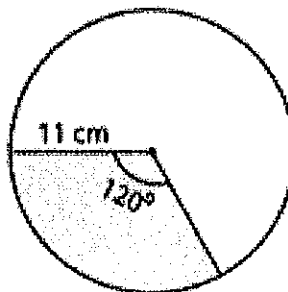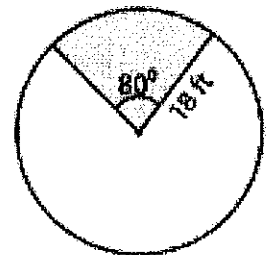
Area = _____

Area of a Sector Practice Problems

Find the *Area of the Shaded Region.*

10) 80° 2ft

11) 140° 5in

12) 12cm 90°

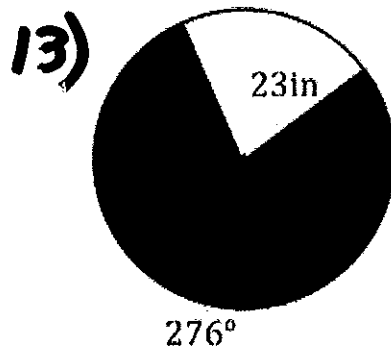**13)** 23in 276°
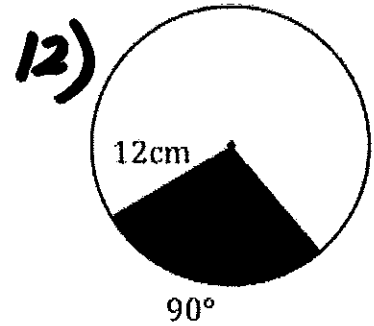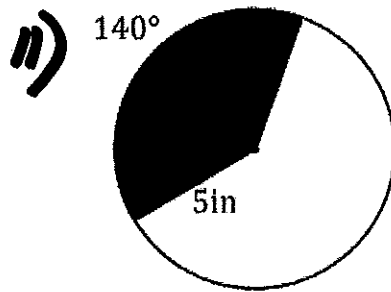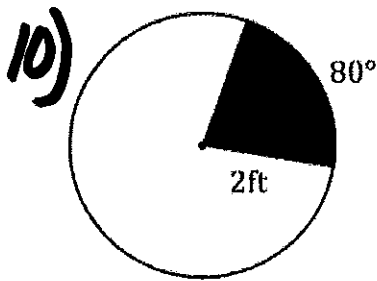
14) Deanna's mom makes her a cake for her birthday that is 12 inches in diameter. Deanna and her friends eat 2/3 of the cake. What is the area of the section of cake they ate?

15) Josephine and her friend are painting a circular prize board with a radius of 3 feet for a school carnival. If they have to paint 5/8 of the board yellow, what area will be yellow?

16) A circular piece of fabric is cut into 3 equal pieces to create 3 fans. The fabric had a diameter of 18 inches. What is the area of each of the fans?