9.4 Circles and Arcs   NAME:_____
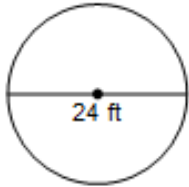
CORRECTIVE ASSIGNMENT   DATE:_____

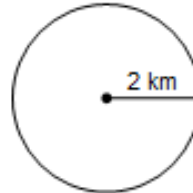**Find the area of each. Leave in the terms of pi.**

1)

24 ft

2)

2 km

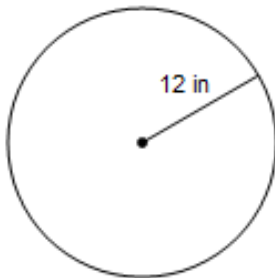3) radius = 5 ft   4) diameter = 18 cm
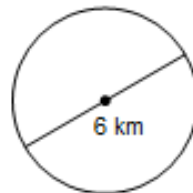
Find the circumference of each circle. Round your answer to the nearest tenth.

5)

12 in

6)

6 km

7) radius = 4 km   8) diameter = 12 m

Find the radius of each circle. Round your answer to the nearest tenth.

9) area = 201.1 m²   10) circumference = 56.5 cm
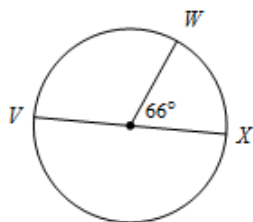
Find the radius of each circle.

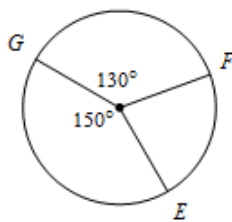11) area = 64π ft²   12) circumference = 12.6 cm

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
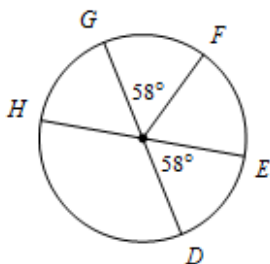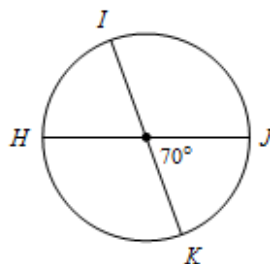
13) $m\overset{\frown}{XVW}$

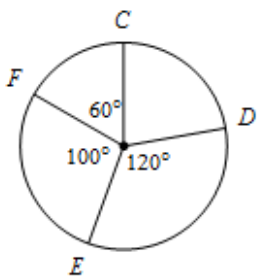14) $m\overset{\frown}{FEG}$

15) $m\overset{\frown}{FEH}$

16) $m\overset{\frown}{JKI}$

17) $m\overset{\frown}{CDF}$

18) $m\overset{\frown}{UW}$
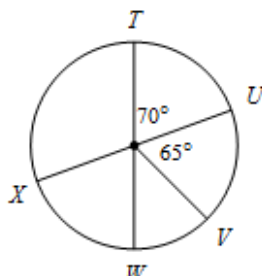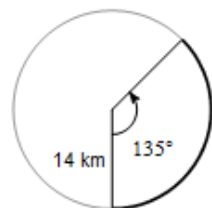

Find the length of each arc. Round your answers to the nearest tenth.

19)

14 km   135°

20)

150°
16 mi
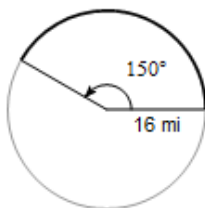
Find the length of each arc. Leave your answer in terms of pi.

21)

8 mi   150°

22)

210°
10 ft
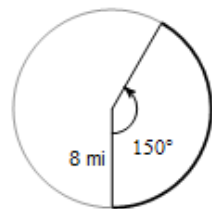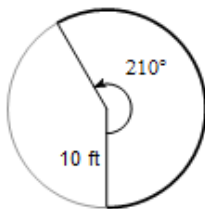
ANSWERS FOR CORRECTIVE ASSIGNMENT 9.4

1) 144π ft²

2) 4π km²

3) 25π ft²

4) 81π cm²

5) 75.4 in

6) 18.8 km

7) 25.1 km

8) 37.7 m

9) 8 m

10) 9 cm

11) 8 ft

12) 2 cm

13) 294°

14) 230°

15) 244°

16) 250°

17) 300°

18) 110°

19) 33.0 km

20) 41.9 mi

21) $\dfrac{20\pi}{3}$ mi

22) $\dfrac{35\pi}{3}$ ft