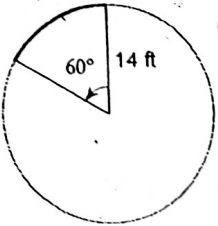
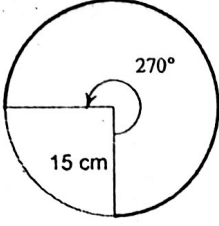
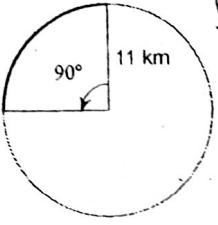


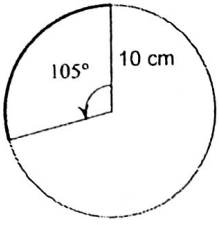
WS1: Arc Length and Area of a Sector

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

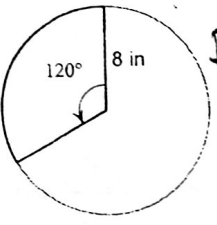
1)  Arc Length = $\frac{60}{360} \cdot 2\pi(14)$
 $= \frac{14}{3}\pi$
 $= 14.7$ ft

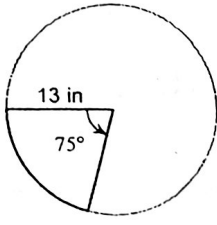
2)  Arc Length = $\frac{270}{360} \cdot 2\pi(15)$
 $= \frac{45}{2}\pi$
 $= 70.7$ cm

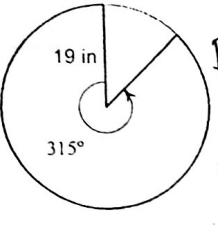
3)  Arc Length = $\frac{90}{360} \cdot 2\pi(11)$
 $= \frac{11}{2}\pi$
 $= 17.3$ km

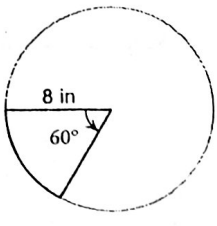
4)  Arc Length = $\frac{105}{360} \cdot 2\pi(10)$
 $= \frac{35}{6}\pi$
 $= 18.3$ cm

Find the area of each sector. Round your answers to the nearest tenth.

5)  Area of Sector = $\frac{120}{360} \cdot \pi(8)^2$
 $= \frac{64}{3}\pi$
 $= 67.0$ in²

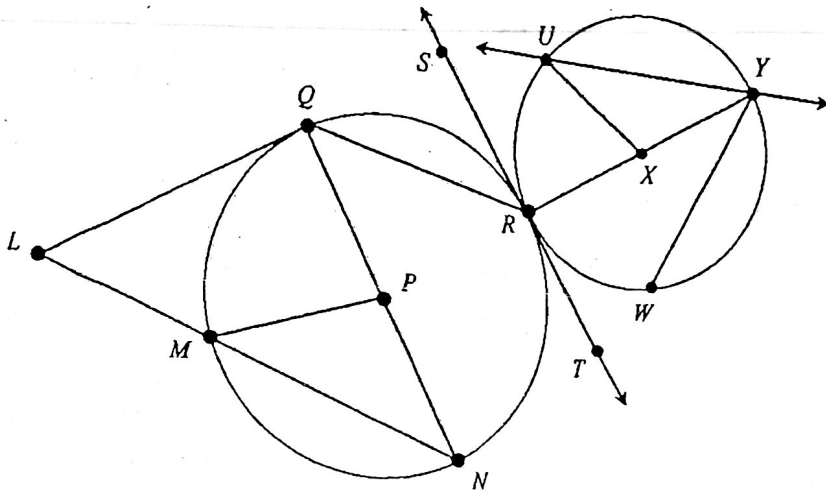
6)  Area of Sector = $\frac{75}{360} \cdot \pi(13)^2$
 $= \frac{845}{24}\pi$
 $= 110.6$ in²

7)  Area of Sector = $\frac{315}{360} \cdot \pi(19)^2$
 $= \frac{25}{8}\pi$
 $= 992.4$ in²

8)  Area of Sector = $\frac{60}{360} \cdot \pi(8)^2$
 $= \frac{32}{3}\pi$
 $= 33.5$ in²

Name that Circle Part!

Directions: Use the diagram below along with the bank to classify each circle part. Parts may be used more than once.



Parts of Circles

Center
 Radius
 Chord
 Diameter
 Secant
 Tangent
 Point of Tangency
 Minor Arc
 Major Arc
 Semicircle
 Central Angle
 Inscribed Angle

1. \overline{LQ} Tangent

3. $\angle NQR$ Inscribed angle

5. \widehat{RWU} Major arc

7. \overline{PN} Radius

9. \widehat{MQ} Minor arc

11. R Point of tangency

13. \widehat{QRN} Semicircle

15. \overline{QR} Chord

17. \widehat{WY} Minor arc

19. \overline{UX} Radius

2. \overline{WY} Chord

4. X Center

6. \overline{ST} Tangent

8. $\angle UXY$ Central angle

10. \overline{QN} Diameter

12. \overline{UY} Chord (UY - secant)

14. $\angle MPQ$ Central angle

16. $\angle UYR$ Inscribed angle

18. \overline{LN} Secant

20. \widehat{RUY} Semicircle