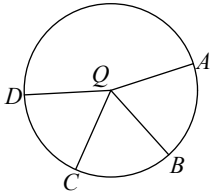


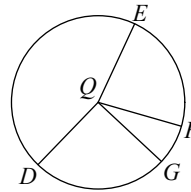
Chapter 11: Circles

If an angle is given, name the arc it makes. If an arc is given, name its central angle.

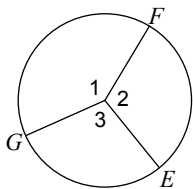
1)  $\widehat{BDC}$



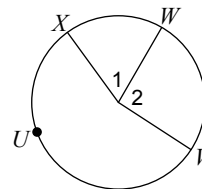
2)  $\widehat{FG}$



3) Major arc for  $\angle 1$

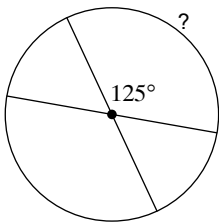


4) Major arc for  $\angle 2$

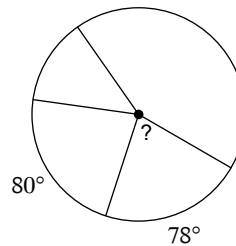


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

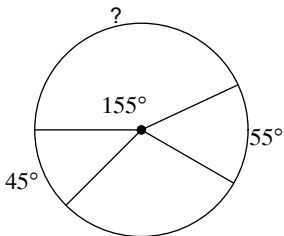
5)



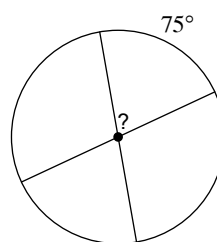
6)



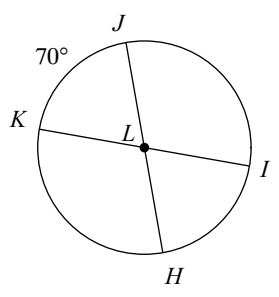
7)



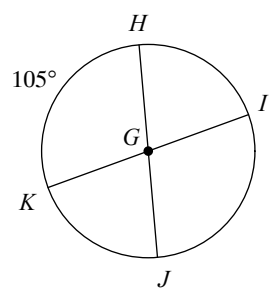
8)



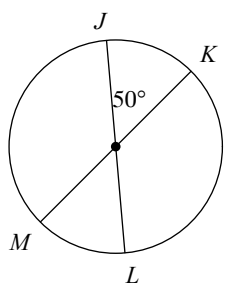
9)  $m\angle JLI$



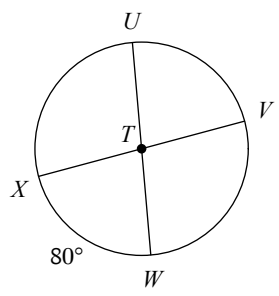
10)  $m\angle HGI$



11)  $m\widehat{KLJ}$

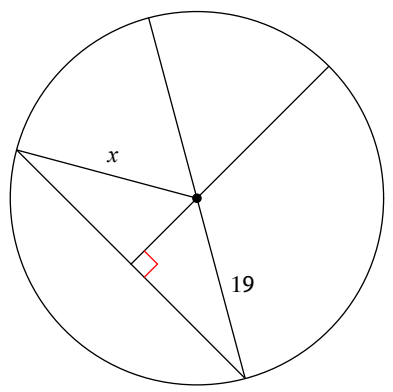


12)  $m\angle XTU$

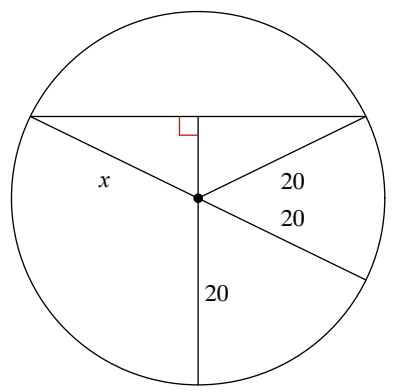


**Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.**

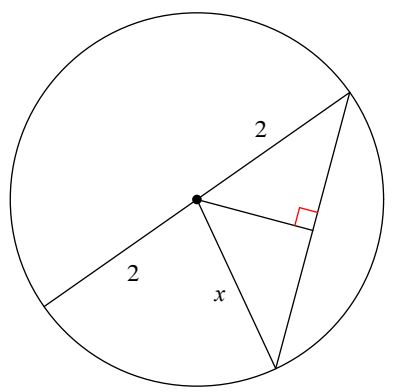
13)



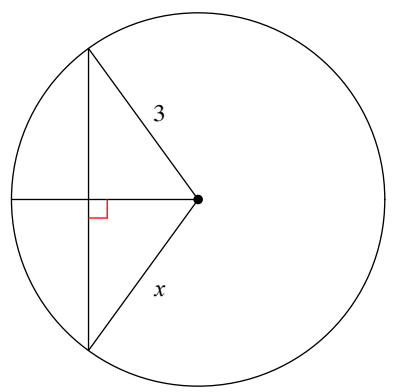
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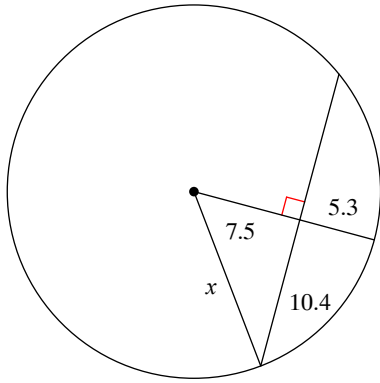
15)



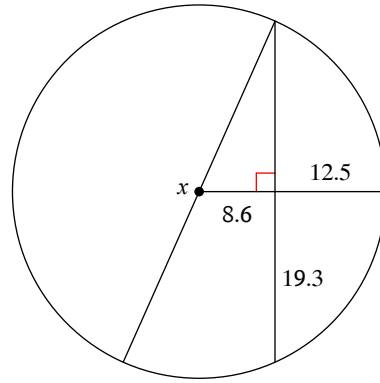
16)



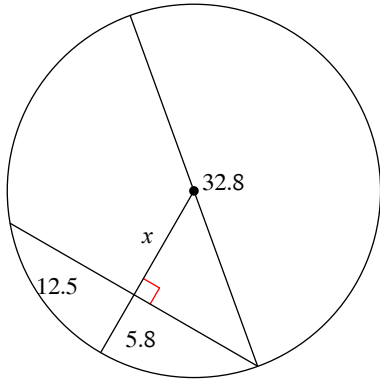
17)



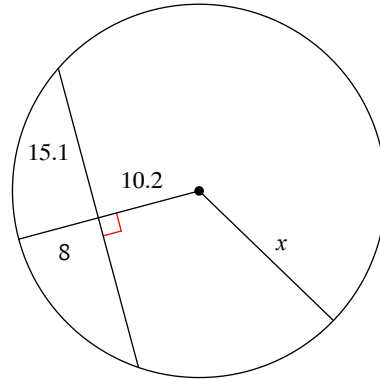
18)



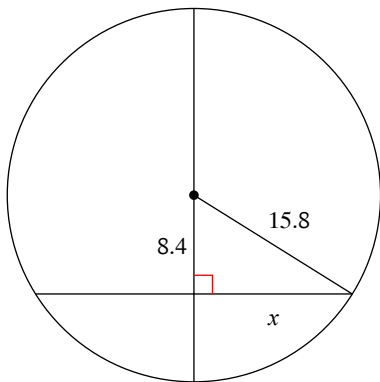
19)



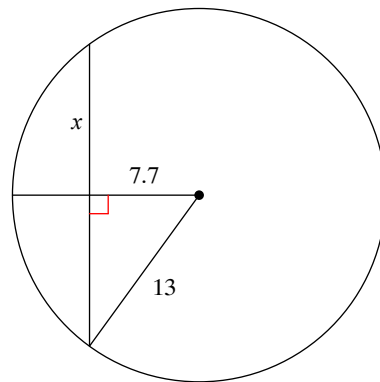
20)



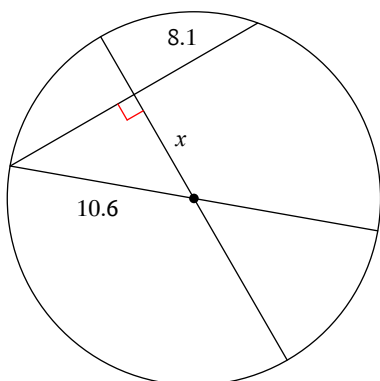
21)



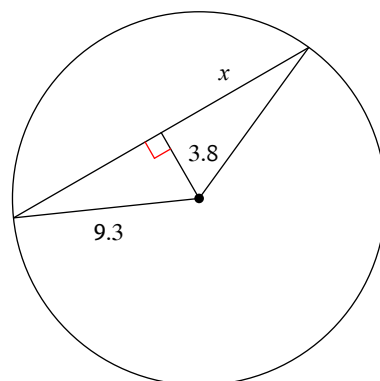
22)



23)

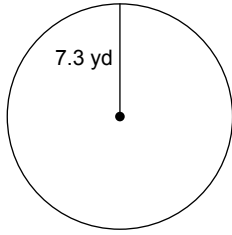


24)

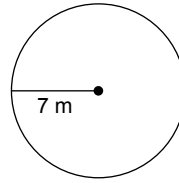


**Find the circumference of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

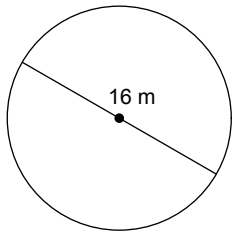
25)



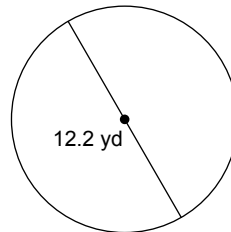
26)



27)

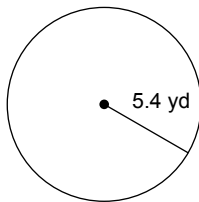


28)

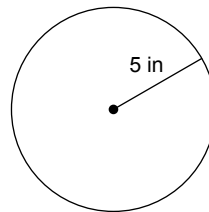


**Find the area of each. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

29)

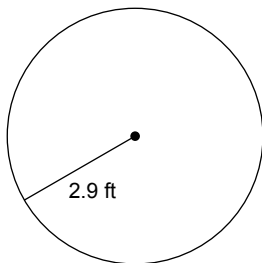


30)

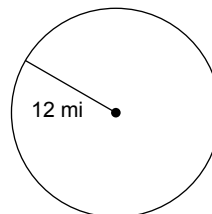


**Find the circumference of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

31)

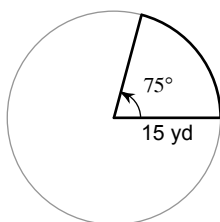


32)

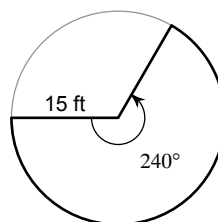


**Find the area of each sector.**

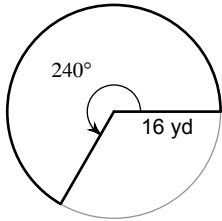
33)



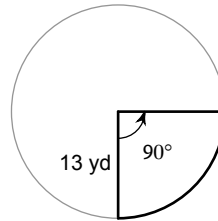
34)



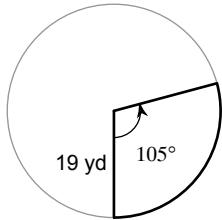
35)



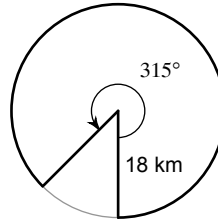
36)



37)



38)



**Find the radius of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.**

39) circumference = 59.1 yd

40) circumference = 25.1 mi

41) circumference = 49 cm

42) circumference = 62.8 km

43) area = 113.1  $\text{mi}^2$

44) area = 50.3  $\text{km}^2$

45) area = 26.4  $\text{yd}^2$

46) area = 254.5  $\text{cm}^2$

## Answers to Chapter 11: Circles (ID: 1)

- |                                       |                                     |                                     |                                     |
|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1) $\angle BQC$                       | 2) $\angle FQG$                     | 3) $\widehat{GEF}$                  | 4) $\widehat{WUV}$                  |
| 5) $125^\circ$                        | 6) $78^\circ$                       | 7) $155^\circ$                      | 8) $75^\circ$                       |
| 9) $110^\circ$                        | 10) $75^\circ$                      | 11) $310^\circ$                     | 12) $100^\circ$                     |
| 13) 19                                | 14) 20                              | 15) 2                               | 16) 3                               |
| 17) 12.8                              | 18) 42.2                            | 19) 10.6                            | 20) 18.2                            |
| 21) 13.4                              | 22) 10.5                            | 23) 6.8                             | 24) 8.5                             |
| 25) 45.9 yd                           | 26) 44 m                            | 27) 50.3 m                          | 28) 38.3 yd                         |
| 29) $91.6 \text{ yd}^2$               | 30) $78.5 \text{ in}^2$             | 31) 18.2 ft                         | 32) 75.4 mi                         |
| 33) $\frac{375\pi}{8} \text{ yd}^2$   | 34) $150\pi \text{ ft}^2$           | 35) $\frac{512\pi}{3} \text{ yd}^2$ | 36) $\frac{169\pi}{4} \text{ yd}^2$ |
| 37) $\frac{2527\pi}{24} \text{ yd}^2$ | 38) $\frac{567\pi}{2} \text{ km}^2$ | 39) 9.4 yd                          | 40) 4 mi                            |
| 41) 7.8 cm                            | 42) 10 km                           | 43) 6 mi                            | 44) 4 km                            |
| 45) 2.9 yd                            | 46) 9 cm                            |                                     |                                     |