

REVIEW Quiz 3 circles: 11-1 to 11-3

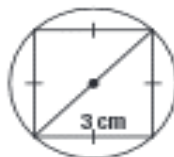
Write whether each statement is true or false. If false, replace the underlined word or phrase to make it a true statement.

1. The vertex of a central angle is at the center of the circle.
2. A circle is the locus of all points in a plane equidistant from a given point.
3. $C = 2\pi r$ is the formula for the length of a circle.
4. The diameter of a circle is a segment with one endpoint at the center and the other endpoint on the circle.
5. A minor arc has measure greater than 0 but less than 180.
6. An half arc is an arc that measures 180° .
7. The radius is the name of the longest chord in a circle.

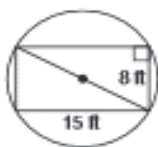
Find the circumference of the given circle.

8. Find exact circumference of a circle with radius 7.

9. Find the circumference to the nearest tenth.



10. Find the exact circumference.

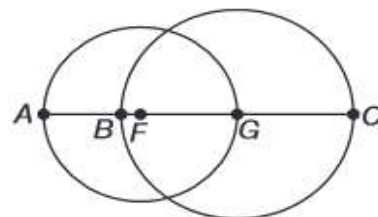


11. Find the circumference of a circle with diameter 10, rounded to the nearest hundredth.

The circumference of circle F is 5π and the radius of circle G is 3 units. Find each measure.

12. BF

13. AB



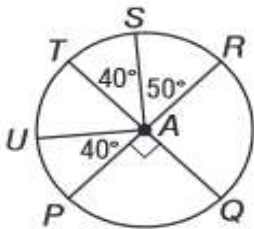
Find the diameter and radius of a circle with the given circumference. Round to the nearest tenth.

14. $C = 36$ m

15. $C = 81.3$ cm

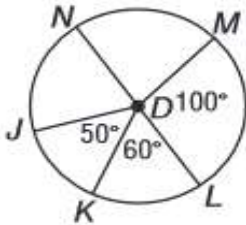
PR and QT are diameters of circle A. Find each measure.

16. $m\widehat{RS}$
17. $m\widehat{PQR}$
18. $m\widehat{US}$
19. $m\widehat{UQ}$
20. $m\widehat{RU}$
21. $m\widehat{PRU}$



Use circle D to find the length of each arc. Round to the nearest tenth.

22. $\widehat{LM}$ if the radius is 5 inches
23. $\widehat{MN}$ if the diameter is 3 yards
24. $\widehat{NK}$ if $NL = 12$ feet
25. $\widehat{JK}$ if $KD = 15$ inches

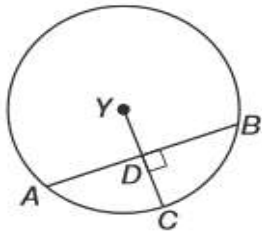


Find the value of x in each circle.

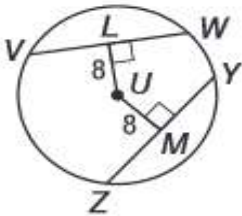
26.
27.
28.
29.

In $\odot Y$ the radius is 34, $AB = 60$, and $m\widehat{AC} = 71$. Find each measure.

30. $m\widehat{BC}$
31. BD
32. YD



33. In circle U, $VW = 20$ and $YZ = 5x$. What is x?



34. A chord of circle P measures 8 inches and the distance from the center to the chord is 3 inches. Find the radius of circle P.