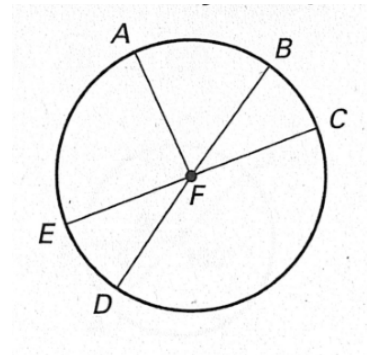
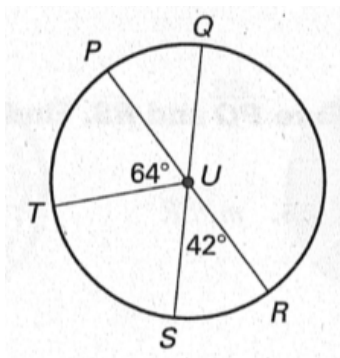


In $\odot F$, determine whether the given arc is a minor arc, major arc or semicircle.

- | | |
|--------------------|--------------------|
| 1. \widehat{AB} | 2. \widehat{AE} |
| 3. \widehat{EAC} | 4. \widehat{ACD} |
| 5. \widehat{CAD} | 6. \widehat{DEB} |
| 7. \widehat{BAE} | 8. \widehat{DEC} |

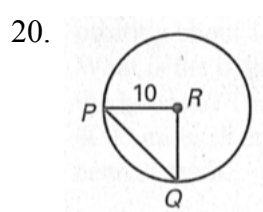
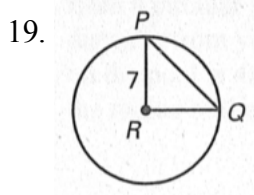


In the figure, \overline{PR} and \overline{QS} are diameters of $\odot U$. Find the measure of the indicated arc.



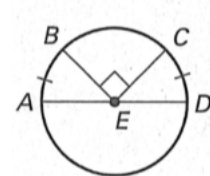
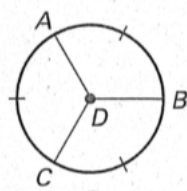
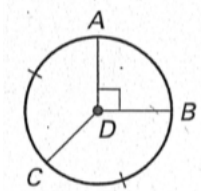
- | | | |
|----------------------|----------------------|----------------------|
| 9. $m\widehat{PQ}$ | 10. $m\widehat{ST}$ | 11. $m\widehat{TPS}$ |
| 12. $m\widehat{RT}$ | 13. $m\widehat{RQS}$ | 14. $m\widehat{QR}$ |
| 15. $m\widehat{PQS}$ | 16. $m\widehat{TQR}$ | 17. $m\widehat{PS}$ |
| 18. $m\widehat{PTR}$ | | |

\widehat{PQ} has a measure of 90° in $\odot R$. Find the length of \overline{PQ} .



Find the indicated arc measure.

- | | | |
|---------------------|----------------------|----------------------|
| 21. $m\widehat{AC}$ | 22. $m\widehat{ACB}$ | 23. $m\widehat{DAB}$ |
|---------------------|----------------------|----------------------|

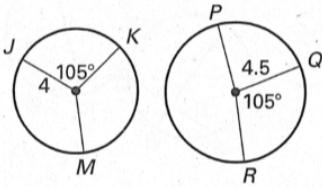


24. Two diameters of $\odot T$ are \overline{PQ} and \overline{RS} . Find the given arc measure in $m\widehat{PR} = 35^\circ$
****It helps to draw the circle****

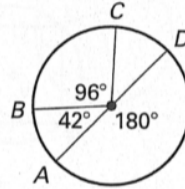
- a.) $m\widehat{PS}$
- b.) $m\widehat{PSR}$
- c.) $m\widehat{PRQ}$
- d.) $m\widehat{PRS}$

Tell whether the given arc are congruent. Show work to support your answer.

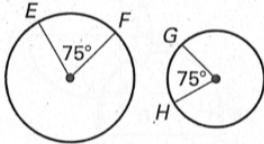
25. \widehat{JK} and \widehat{QR}



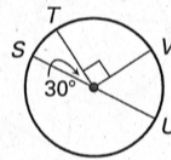
26. \widehat{AB} and \widehat{CD}



27. \widehat{EF} and \widehat{GH}

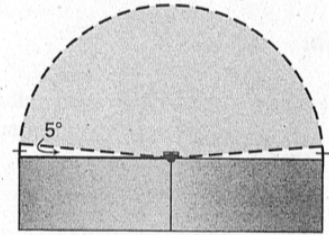


28. \widehat{STV} and \widehat{UVT}



29. A water sprinkler covers the area shown in the figure. It moves through the covered area at a rate of about 5° per second. Show work to support your answer.

- a.) What is the measure of the arc covered by the sprinkler?
- b.) If the sprinkler starts at the far left position, how long will it take for the sprinkler to reach the far right position?



30. A surveillance camera is mounted in a corner of a building. It rotates clockwise and counterclockwise continuously between Wall A and Wall B at a rate of 10° per minute. Show work to support your answer.

- a.) What is the measure of the arc surveyed by the camera?
- b.) How long does it take the camera to survey the entire area once?
- c.) If the camera is at an angle of 85° from Wall B while rotating Counterclockwise, how long will it take for the camera to return to that same position?

