

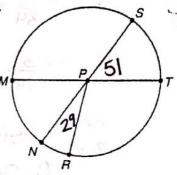
Refer to ⊙P for Exercises 1–8. If SN and MT are diameters with $m \angle$ SPT = 51 and $m \angle$ NPR = 29, determine whether each arc is a minor arc, a major arc, or a semicircle. Then find the degree measure of each arc. degree of arc = angle

- 1. mNR minor, 29
- 2. mST minor, 51

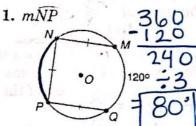
- 3. mTSR major, 260 4. mMST semicircle

If MT = 15, find the length of each arc. Round to the nearest

- tenth. $\frac{39}{360}$ (15 π) = 3.8
- 7. TSR 360 (1511) = 34.0 8. MST 180 (1511)



In each circle, O is the center. Find each measure.



- 2. KM 12+12+24
- 3. XY b=16 X 2

r= 13in



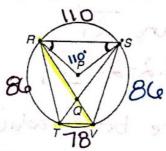
Suppose a chord is 20 inches long and is 24 inches from the center of the circle. Find the length of the radius. 102+242=12

- Suppose a chord of a circle is 5 inches from the center and is 24 inches long. Find the length of the radius.



 $5^2 + 12^2 = r^2$ $169 = r^2$ 106+576=1





In $\bigcirc P$, $m\widehat{SV} = 86$ and $m \angle RPS = 110$. Find each measure.

4. m ∠ PRS

180-110=70 70=2=35

- 5. mRT
- 6. m \(RVT = \frac{1}{2} (86) 7. m \(SVT \)

- 8. $m \angle TQV$

- 11. mRS

