

LESSON 10.4 Practice
For use with pages 671-679

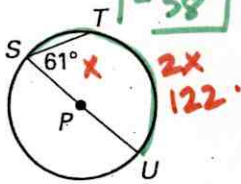
1. Multiple Choice In the figure shown, which statement is true?

- A. $\angle SPR \cong \angle PSQ$
 B. $\angle RQS \cong \angle RPS$
 C. $\angle RPS \cong \angle PRQ$
 D. $\angle PRQ \cong \angle SQR$

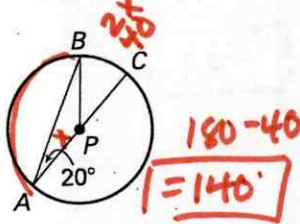


Find the measure of the indicated angle or arc in $\odot P$.

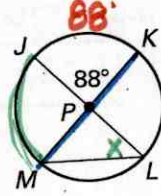
2. $m\widehat{ST} = 180 - 122$
 $\boxed{= 58^\circ}$



3. $m\widehat{AB} = 180 - 40$
 $\boxed{= 140^\circ}$

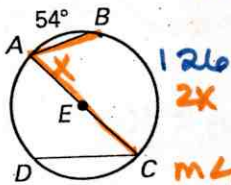


4. $m\angle JLM = 88^\circ$
 $\boxed{= 46^\circ}$

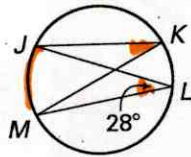


$\widehat{JM} = 180 - 88 = 92^\circ$
 $m\angle JLM = 92/2$
 $\boxed{= 46}$

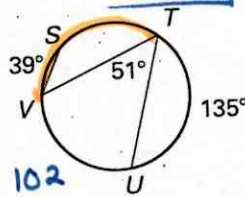
5. $m\angle A = 180 - 54$
 $\boxed{= 126}$
 $m\angle A = \frac{126}{2}$
 $\boxed{= 63^\circ}$



6. $m\angle K = 28^\circ$



7. $m\widehat{VST} = 360 - (102 + 135)$
 $\boxed{= 123}$



Find the measure of the indicated angle or arc in $\odot P$, given $m\widehat{LM} = 84^\circ$ and $m\widehat{KN} = 116^\circ$.

8. $m\angle JKL = \frac{180}{2}$
 $\boxed{= 90^\circ}$

9. $m\angle MKL = \frac{84}{2}$
 $\boxed{= 42^\circ}$

10. $m\angle KMN = \frac{116}{2}$
 $\boxed{= 58^\circ}$

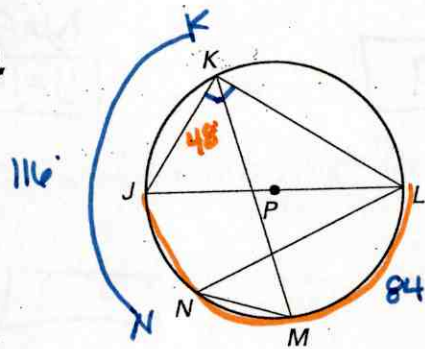
11. $m\angle JKM = \frac{96}{2}$
 $\boxed{= 48^\circ}$

12. $m\angle KLN = \frac{116}{2}$
 $\boxed{= 58^\circ}$

13. $m\angle LNM = \frac{84}{2}$
 $= 42^\circ$

14. $m\widehat{MJ} = 2(48)$
 $= 96^\circ$

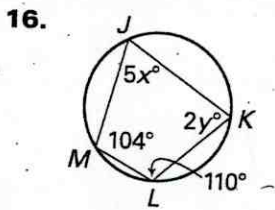
15. $m\widehat{LKJ} = 180^\circ$



$180 - 84 = 96$

LESSON 10.4 Practice *continued*
For use with pages 671-679

Find the values of the variables.

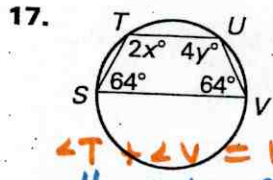


$$J + L = 180 \quad m + k = 180$$

$$5x + 110 = 180 \quad 104 + 2y = 180$$

$$5x = 70 \quad 2y = 76$$

$$\boxed{x = 14} \quad \boxed{y = 38}$$



$$\angle T + \angle V = 180$$

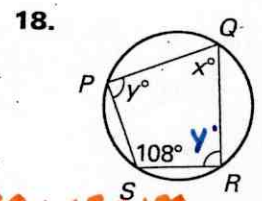
$$4y + 64 = 180$$

$$\boxed{y = 29}$$

$$\angle S + \angle U = 180$$

$$2x + 64 = 180$$

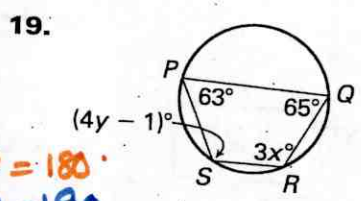
$$\boxed{x = 58}$$



$$\angle Q + \angle S = 180 \quad \angle P + \angle R = 180$$

$$x + 108 = 180 \quad 2y = 180$$

$$\boxed{x = 72} \quad \boxed{y = 90}$$



$$\angle R + \angle P = 180$$

$$3x + 63 = 180$$

$$3x = 117$$

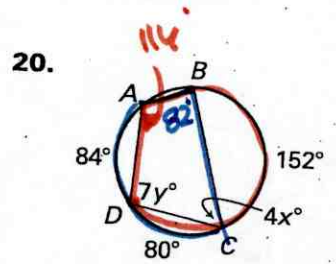
$$\boxed{x = 39}$$

$$\angle S + \angle Q = 180$$

$$4y - 1 + 65 = 180$$

$$4y = 116$$

$$\boxed{y = 29}$$



$$\angle B = \frac{84 + 80}{2}$$

$$= 82$$

$$7y + 82 = 180$$

$$7y = 98$$

$$\boxed{y = 14}$$

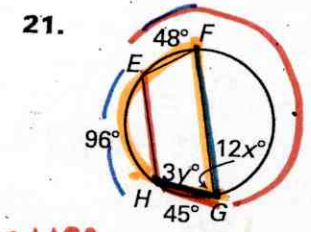
$$\angle A = \frac{80 + 152}{2}$$

$$\angle A = 116$$

$$4x + 116 = 180$$

$$4x = 64$$

$$\boxed{x = 16}$$



$$360 - (96 + 45)$$

$$3y = \frac{219}{2}$$

$$y = 36.5$$

$$\angle G = \frac{96 + 48}{2}$$

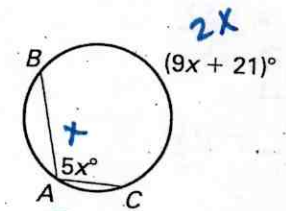
$$\angle G = 72$$

$$12x = 72$$

$$\boxed{x = 6}$$

22. Multiple Choice What is the value of x in the figure shown?

- A. 7
- B. 12
- C. 16
- D. 21



$$\widehat{BC} = 2(\angle BAC)$$

$$9x + 21 = 2(5x)$$

$$9x + 21 = 10x$$

$$x = 21$$