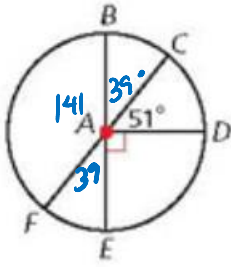


Find each measure.

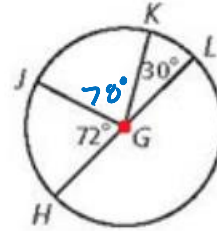
11. $m\widehat{DF}$ 129°

12. $m\widehat{DEB}$
 270°

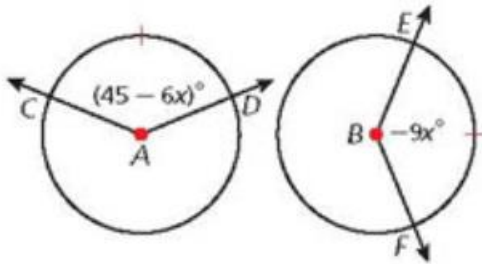


13. $m\widehat{JL}$ 108°

14. $m\widehat{HLK}$
 210°



16. $\odot A \cong \odot B$, and $\widehat{CD} \cong \widehat{EF}$. Find $m\angle EBF$.



$$45 - 6x = -9x$$

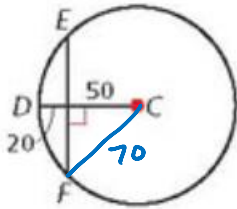
$$45x = -3x$$

$$-15 = x$$

$$m\angle EBF = -9(-15)$$

$$= \boxed{135^\circ}$$

18. EF



$$x^2 + 50^2 = 70^2$$

$$x^2 + 2500 = 4900$$

$$x^2 + 25 = 49$$

$$\sqrt{x^2} = \sqrt{24}$$

$$x = (2\sqrt{6})10$$

$$x = 20\sqrt{6}$$

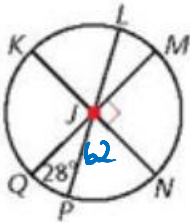
$$EF = 2(20\sqrt{6})$$

$$= \boxed{40\sqrt{6}}$$

Find each measure.

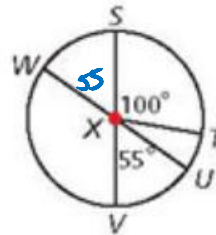
25. $m\widehat{MP}$ 152°

~~26.~~ $m\widehat{QNL}$



~~27.~~ $m\widehat{WT}$

28. $m\widehat{WTV}$
 235°



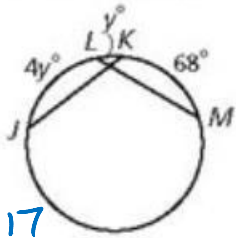
30. $\overline{JK} \cong \overline{LM}$. Find $m\widehat{JK}$.

$$4y = 68$$

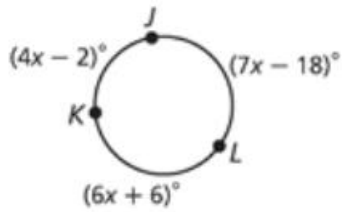
$$y = 17$$

$$JK = 4(17) + 17$$

$$= \boxed{85}$$



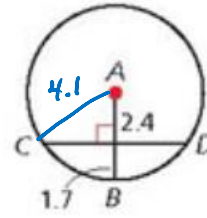
38. $m\widehat{JL}$



$$m\widehat{JL} = 7(22) - 18$$

$$= \boxed{136^\circ}$$

31. CD



$$2.4^2 + x^2 = 4.1^2$$

$$5.76 + x^2 = 16.81$$

$$\sqrt{x^2} = \sqrt{11.05}$$

$$x \approx 3.32$$

$$CD = 2(3.32)$$

$$= \boxed{6.64}$$

$$4x - 2 + 7x - 18 + 6x + 6 = 360$$

$$17x - 14 = 360$$

$$17x = 374$$

$$x = 22$$