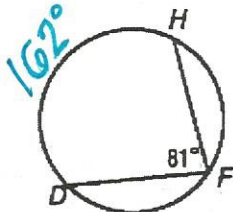


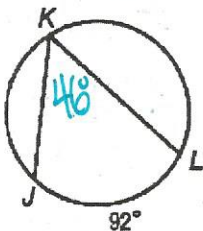
SHOW ALL WORK AND CIRCLE YOUR FINAL ANSWERS.

Find each measure.

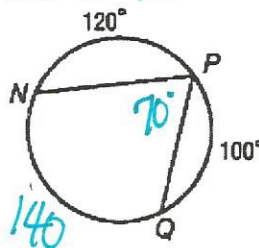
11. $m\widehat{DH} = 162^\circ$



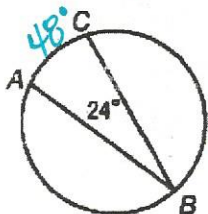
12. $m\angle K = 46^\circ$



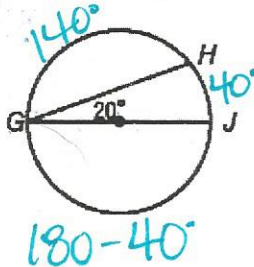
13. $m\angle P = 70^\circ$



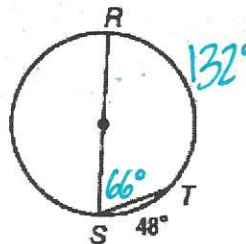
14. $m\widehat{AC} = 48^\circ$



15. $m\widehat{GH} = 140^\circ$



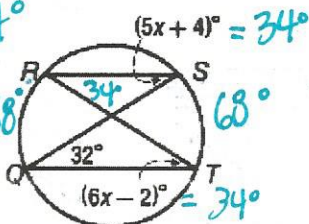
16. $m\angle S = 66^\circ$



ALGEBRA Find each measure.

17. $m\angle R = 34^\circ$

18. $m\angle S = 34^\circ$

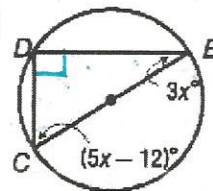


$$5x + 4 = 6x - 2$$

$$6 = x$$

25. $x = 12.75$

26. $m\angle C = 51.75^\circ$



$$5x - 12 + 3x = 90$$

$$8x - 12 = 90$$

$$8x = 102$$

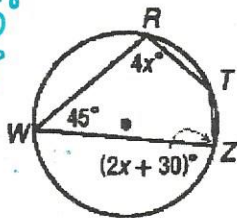
$$x = 12.75$$

$$m\angle C = 5(12.75) - 12 = 51.75^\circ$$

ALGEBRA Find each measure.

27. $m\angle T = 135^\circ$

28. $m\angle Z = 80^\circ$



opp \angle s of a quad. inscribed in a \odot are supp.

$m\angle E = 180 - 45 = 135$

$4x + 2x + 30 = 180$

$6x = 150$

$x = 25$

$m\angle Z = 2(25) + 30 = 80$

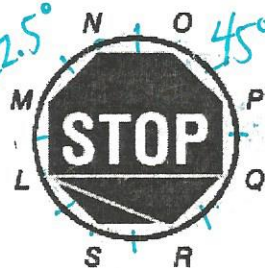
SIGNS A stop sign in the shape of a regular octagon is inscribed in a circle. Find each measure.

32. $m\widehat{NPQ} = 360 - 45 = 315^\circ$

34. $m\angle LRQ = \frac{1}{2}(5 \cdot 45) = 112.5^\circ$

33. $m\angle RLQ = \frac{1}{2}45 = 22.5^\circ$

35. $m\angle LSR = \frac{1}{2}(6 \cdot 45) = 135^\circ$



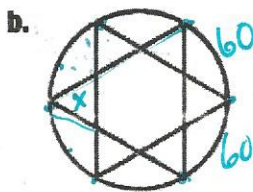
$\frac{360}{8} = 45^\circ$

36. ART Four different string art star patterns are shown. If all of the inscribed angles of each star shown are congruent, find the measure of each inscribed angle.



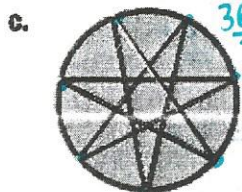
$\frac{360}{5}$

$\frac{72}{2} = 36^\circ$



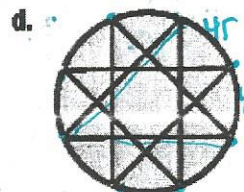
$\frac{360}{6} = 60$

$x = \frac{1}{2}(120) = 60^\circ$



$\frac{360}{7}$

$\frac{360}{7} \div 2 = \frac{180}{7}$ or 25.7



$\frac{360}{8} = 45$