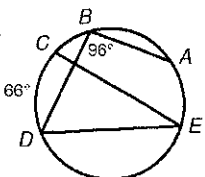
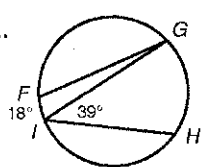


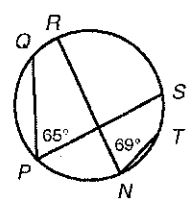
# CCGPS Geometry – Day 21 Homework

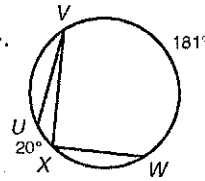
## Inscribed Angles

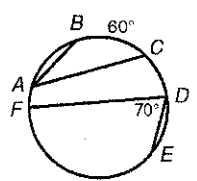
Find each measure.

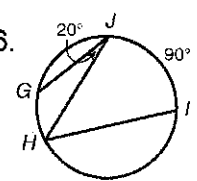
1.   $m\angle CED = \underline{33^\circ}$   
 $m\widehat{DEA} = \underline{142^\circ}$

2.   $m\angle FGI = \underline{9^\circ}$   
 $m\widehat{GH} = \underline{78^\circ}$

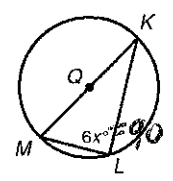
3.   $m\widehat{QRS} = \underline{130^\circ}$   
 $m\widehat{TSR} = \underline{138^\circ}$

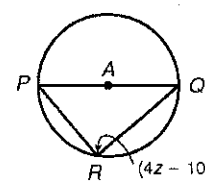
4.   $m\angle XVU = \underline{10^\circ}$   
 $m\angle VXW = \underline{90.5^\circ}$

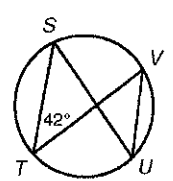
5.   $m\angle BAC = \underline{30^\circ}$   
 $m\widehat{FE} = \underline{140^\circ}$

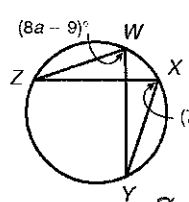
6.   $m\angle IHJ = \underline{45^\circ}$   
 $m\widehat{GH} = \underline{40^\circ}$

Find each value.

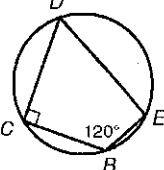
7.   $x = \underline{15}$

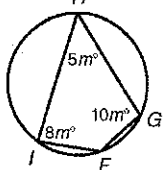
8.   $z = \underline{25}$

9.   $m\angle VUS = \underline{42}$

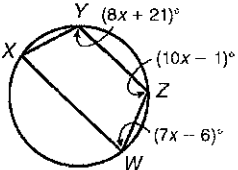
10.   $m\angle ZWY = \underline{71^\circ}$   
 $7a + 1 = 8a - 9$   
 $10 = a$

**Find the angle measures of each inscribed quadrilateral.**

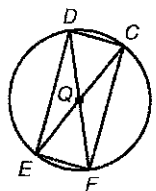
11.   $m\angle B = \underline{120^\circ}$   
 $m\angle C = \underline{90^\circ}$   
 $m\angle D = \underline{60^\circ}$   
 $m\angle E = \underline{90^\circ}$

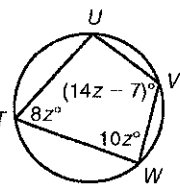
12.   $m\angle F = \underline{130^\circ}$   
 $m\angle G = \underline{100^\circ}$   
 $m\angle H = \underline{50^\circ}$   
 $m\angle I = \underline{80^\circ}$

$8m + 10m = 180$   
 $18m = 180$   
 $m = 10$

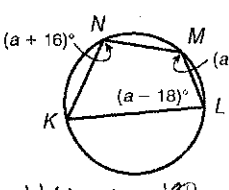
13.   $m\angle X = \underline{71^\circ}$   
 $m\angle Y = \underline{109^\circ}$   
 $m\angle Z = \underline{109^\circ}$   
 $m\angle W = \underline{71^\circ}$

$7x - 6 + 8x + 21 = 180$   
 $15x = 165$   
 $x = 11$

14.   $m\angle C = \underline{90^\circ}$   
 $m\angle D = \underline{90^\circ}$   
 $m\angle E = \underline{90^\circ}$   
 $m\angle F = \underline{90^\circ}$

15.   $m\angle T = \underline{68^\circ}$   
 $m\angle U = \underline{95^\circ}$   
 $m\angle V = \underline{112^\circ}$   
 $m\angle W = \underline{85^\circ}$

$8z + 14z - 7 = 180$   
 $22z = 187$   
 $z = 8.5$

16.   $m\angle K = \underline{59^\circ}$   
 $m\angle L = \underline{73^\circ}$   
 $m\angle M = \underline{121^\circ}$   
 $m\angle N = \underline{107^\circ}$

$a + 16 + a - 18 = 180$   
 $2a - 2 = 180$   
 $2a = 182$   
 $a = 91$

17. Lyla has not learned how to stop on ice skates yet, so she just skates straight across the circular rink until she hits a wall. She starts at P, turns 75° at Q, and turns 100° at R. Find how many degrees Lyla will turn at S to get back to her starting point.

105°

