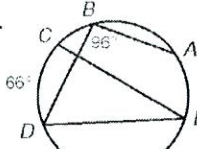
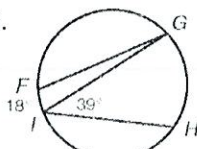
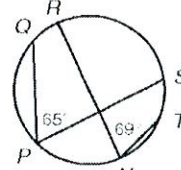


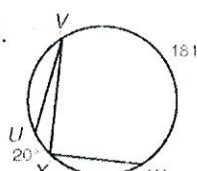
Day 2 – Inscribed Angles and Inscribed Quadrilaterals

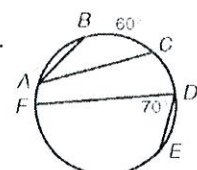
Find each measure.

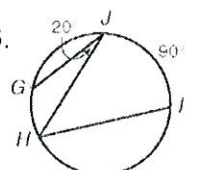
1.  $m\angle CED = \underline{33^\circ}$
 $m\widehat{DEA} = \underline{192^\circ}$

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

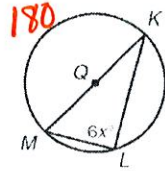
3.  $m\widehat{QRS} = \underline{130^\circ}$
 $m\widehat{TSR} = \underline{138^\circ}$

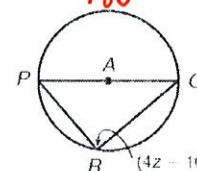
4.  $m\angle XVU = \underline{10^\circ}$
 $m\angle VXW = \underline{90.5^\circ}$


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

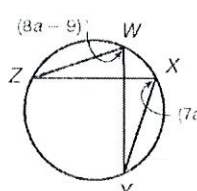
6.  $m\angle IHJ = \underline{45^\circ}$
 $m\widehat{GH} = \underline{40^\circ}$

Find each value.

7.  $x = \underline{15}$
 $6x = 90$
 $x = 15$

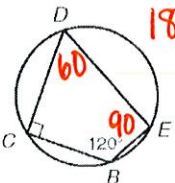
8.  $z = \underline{25}$
 $4z - 10 = 90$
 $4z = 100$
 $z = 25$

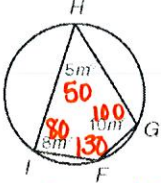
9.  $m\angle VUS = \underline{42^\circ}$

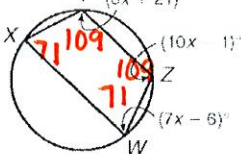
10.  $m\angle ZWY = \underline{71^\circ}$

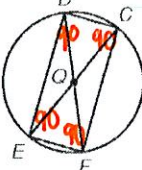
$8a - 9 = 7a + 1$
 $a = 10$
 $m\angle ZWY = 8a - 9$
 $8(10) - 9$
 71

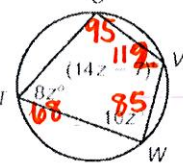
Find the angle measures of each inscribed quadrilateral.

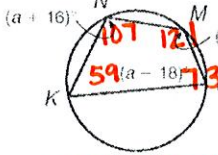
11.  $m\angle B = \underline{120^\circ}$
 $m\angle C = \underline{90^\circ}$
 $m\angle D = \underline{60^\circ}$
 $m\angle E = \underline{90^\circ}$

12.  $m\angle F = \underline{130^\circ}$
 $m\angle G = \underline{100^\circ}$
 $m\angle H = \underline{50^\circ}$
 $m\angle I = \underline{80^\circ}$
 $8m + 10m = 180$
 $18m = 180$
 $m = 10$

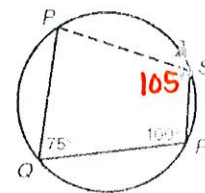
13.  $m\angle X = \underline{71^\circ}$
 $m\angle Y = \underline{109^\circ}$
 $m\angle Z = \underline{109^\circ}$
 $m\angle W = \underline{71^\circ}$
 $8x + 21 + 7x - 6 = 180$
 $15x = 165$
 $x = 11$

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.  $m\angle K = \underline{59^\circ}$
 $m\angle L = \underline{73^\circ}$
 $m\angle M = \underline{121^\circ}$
 $m\angle N = \underline{107^\circ}$
 $a + 16 + a - 18 = 180$
 $2a = 182$
 $a = 91$

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°