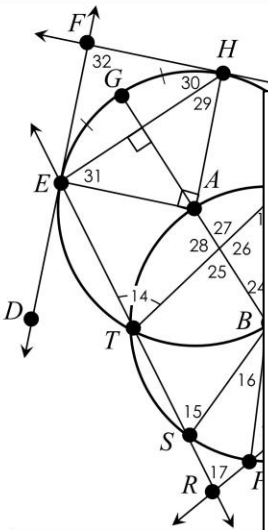


# The Giant ARC & ANGLES V4 IN CIRCLES CHALLENGE!

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Period: \_\_\_\_\_



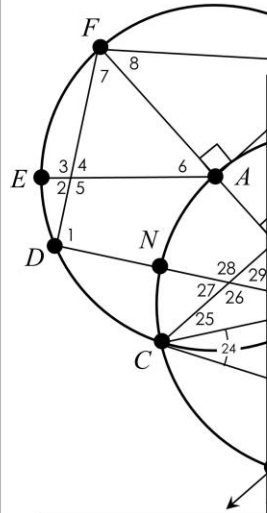
Find each angle measure:

$m\angle 1 = \underline{\hspace{2cm}}$        $m\angle 17 = \underline{\hspace{2cm}}$

**Given:**  $A, B,$  and  $C$  are centers of three circles.  
 $\overline{NP}$  are diameters.  
 $m\widehat{BT} = 59^\circ, m\widehat{NS} = 14^\circ$

# The Giant ARC & ANGLES V3 IN CIRCLES CHALLENGE!

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Period: \_\_\_\_\_



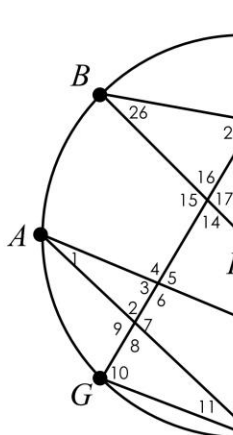
Find each angle measure:

$m\angle 1 = \underline{\hspace{2cm}}$        $m\angle 17 = \underline{\hspace{2cm}}$

**Given:**  $A$  and  $B$  are the centers of two circles.  
 $\overline{CJ}$  are diameters,  $m\widehat{EG} = 14^\circ$

# The Giant ARC & ANGLES V2 IN CIRCLES CHALLENGE!

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Period: \_\_\_\_\_



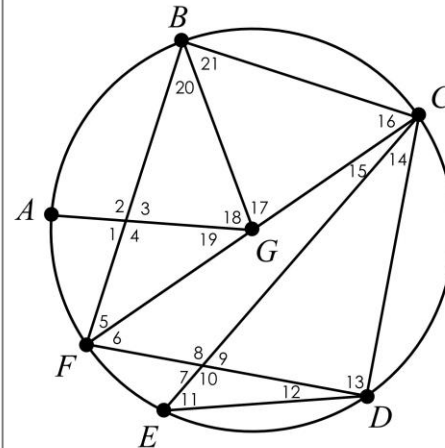
Find each angle measure:

$m\angle 1 = \underline{\hspace{2cm}}$        $m\angle 14 = \underline{\hspace{2cm}}$

**Given:**  $H$  is the center of the circle.  
 $\overline{AC}$  is a diameter,  
 $m\widehat{ED} = 70^\circ, m\widehat{AB} = 10^\circ$

# The Giant ARC & ANGLES V1 IN CIRCLES CHALLENGE!

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Period: \_\_\_\_\_



Find each angle measure:

- |   |   |
|---|---|
| $m\angle 1 = \underline{\hspace{2cm}}$  | $m\angle 12 = \underline{\hspace{2cm}}$ |
| $m\angle 2 = \underline{\hspace{2cm}}$  | $m\angle 13 = \underline{\hspace{2cm}}$ |
| $m\angle 3 = \underline{\hspace{2cm}}$  | $m\angle 14 = \underline{\hspace{2cm}}$ |
| $m\angle 4 = \underline{\hspace{2cm}}$  | $m\angle 15 = \underline{\hspace{2cm}}$ |
| $m\angle 5 = \underline{\hspace{2cm}}$  | $m\angle 16 = \underline{\hspace{2cm}}$ |
| $m\angle 6 = \underline{\hspace{2cm}}$  | $m\angle 17 = \underline{\hspace{2cm}}$ |
| $m\angle 7 = \underline{\hspace{2cm}}$  | $m\angle 18 = \underline{\hspace{2cm}}$ |
| $m\angle 8 = \underline{\hspace{2cm}}$  | $m\angle 19 = \underline{\hspace{2cm}}$ |
| $m\angle 9 = \underline{\hspace{2cm}}$  | $m\angle 20 = \underline{\hspace{2cm}}$ |
| $m\angle 10 = \underline{\hspace{2cm}}$ | $m\angle 21 = \underline{\hspace{2cm}}$ |
| $m\angle 11 = \underline{\hspace{2cm}}$ |   |

**Given:**  $G$  is the center of the circle.  
 $\overline{CF}$  is a diameter,  $m\widehat{AB} = 65^\circ$ ,  
 $m\widehat{FE} = 30^\circ, m\widehat{BD} = 166^\circ, m\widehat{CD} = 90^\circ$

