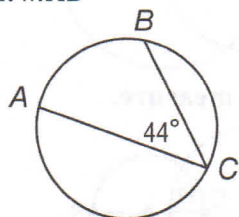


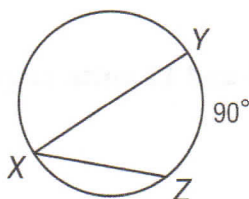
# Inscribed Angles

Find each measure.

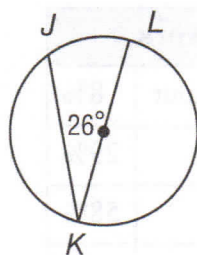
1.  $m\widehat{AB}$



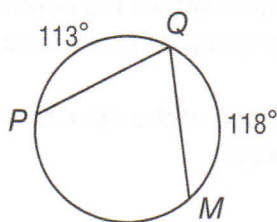
2.  $m\angle X$



3.  $m\widehat{JK}$

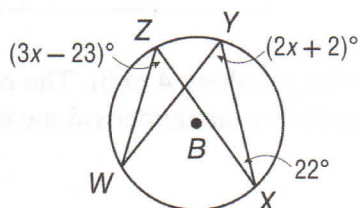


4.  $m\angle Q$

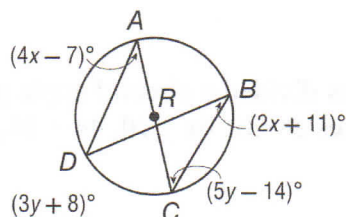


ALGEBRA Find each measure.

5.  $m\angle W$



7.  $m\angle A$

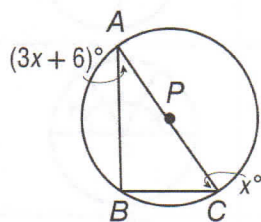


6.  $m\angle Y$

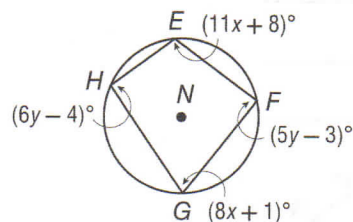
8.  $m\angle D$

If an inscribed angle of a circle intercepts a semicircle, then the angle is a right angle. Find each measure.

9.  $m\angle A$



11.  $m\angle G$



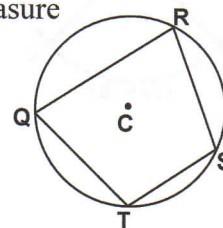
10.  $m\angle C$

12.  $m\angle H$

13. Quadrilateral QRST is inscribed in circle C. If  $m\angle T = 95^\circ$ ,  $m\angle S = 100^\circ$ , the measure of arc  $TR = 160^\circ$ , and the measure of arc  $QS = 170^\circ$ , find  $m\angle Q$  and  $m\angle R$ .

$m\angle Q$

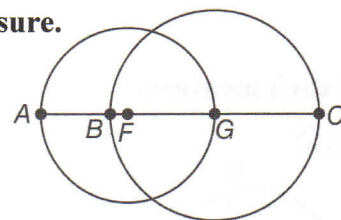
$m\angle R$



The diameters of  $\odot F$  and  $\odot G$  are 5 and 6 units, respectively. Find each measure.

14.  $BF$

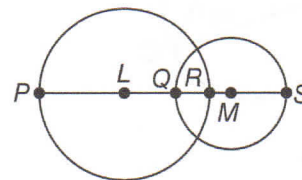
15.  $AB$



The diameters of  $\odot L$  and  $\odot M$  are 20 and 13 units, respectively, and  $QR = 4$ . Find each measure.

16.  $LQ$

17.  $RM$



**HOMEWORK** Refer to the table, which shows the number of hours students at Leland High School say they spend on homework each night.

Homework	
Less than 1 hour	8%
1–2 hours	29%
2–3 hours	58%
3–4 hours	3%
Over 4 hours	2%

18. If you were to construct a circle graph of the data, how many degrees would be allotted to each category?

19. Describe the arcs associated with each category.

20. **PIES** Yolanda has divided a circular apple pie into 4 slices by cutting the pie along 4 radii. The central angles of the 4 slices are  $3x$ ,  $6x - 10$ ,  $4x + 10$ , and  $5x$  degrees. What exactly are the numerical measures of the central angles?

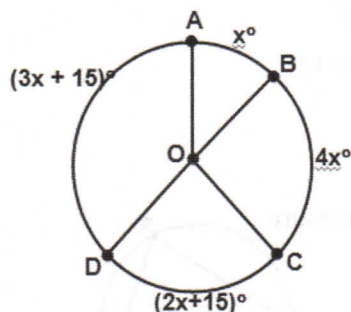
21. Find the measure of each of the following:

a)  $\angle AOB =$  \_\_\_\_\_

b)  $\angle BOC =$  \_\_\_\_\_

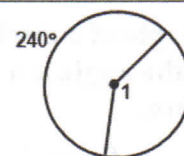
c)  $\angle COD =$  \_\_\_\_\_

d)  $\angle AOD =$  \_\_\_\_\_

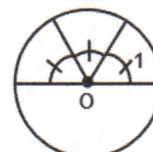


Find each of the angles measures indicated.

22.  $m\angle 1 =$  \_\_\_\_\_

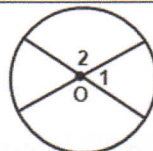


23.  $m\angle 1 =$  \_\_\_\_\_



24.  $m\angle 1 =$  \_\_\_\_\_

$m\angle 2 =$  \_\_\_\_\_



25.  $m\angle 1 =$  \_\_\_\_\_

$m\angle 2 =$  \_\_\_\_\_

