

# Practice

## Measuring Angles and Arcs

**ALGEBRA** In  $\odot Q$ ,  $\overline{AC}$  and  $\overline{BD}$  are diameters. Find each measure.

1.  $m\angle AQE$

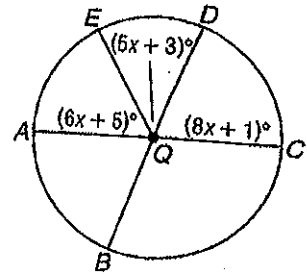
2.  $m\angle DQE$

3.  $m\angle CQD$

4.  $m\angle BQC$

5.  $m\angle CQE$

6.  $m\angle AQD$



In  $\odot P$ ,  $m\angle GPH = 38$ . Find each measure.

7.  $m\widehat{EF}$

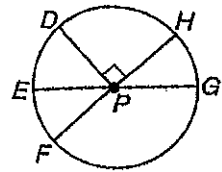
8.  $m\widehat{DE}$

9.  $m\widehat{FG}$

10.  $m\widehat{DHG}$

11.  $m\widehat{DFG}$

12.  $m\widehat{DGE}$



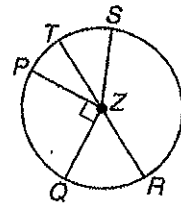
The radius of  $\odot Z$  is 13.5 units long. Find the length of each arc for the given angle measure.

13.  $\widehat{QPT}$  if  $m\angle QZT = 120$

14.  $\widehat{QR}$  if  $m\angle QZR = 60$

15.  $\widehat{PQR}$  if  $m\angle PZR = 150$

16.  $\widehat{QPS}$  if  $m\angle QZS = 160$



**HOMEWORK** For Exercises 17 and 18, refer to the table, which shows the number of hours students at Leland High School say they spend on homework each night.

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

18. Describe the arcs associated with each category.

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