Angles and Arcs

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

 $1. m \angle AQE$

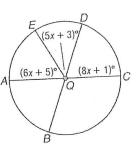
2. m \(DQE \) 48

3. m \(CQD \)

4. m \(BQC \)

5. $m \angle CQE$

6. m∠AQD 107



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

7. mEF 3 8

9. mFG 1412

11. mDFG Z 3 2

12. mDGE 308



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 $m \angle QZR = 60$

94 = 29.27 units

4.57 = 14.14 units

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

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

1271 ~ 37, 7 units

31.25m × 35.34

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?

28.8. 104.4", 208.8", 10.8", 7.2" ou

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

18. Describe the arcs associated with each category.

The arcs associated with Z-3 hours is a

major acc