10-2 Practice

Measuring Angles and Arcs

$\overline{AC}$ and $\overline{EB}$ are diameters of $\odot Q$. Identify each arc as
a *major arc*, *minor arc*, or *semicircle* of the circle.
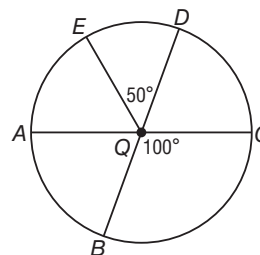Then find its measure.

1. $m\widehat{AE}$ **2.** $m\widehat{AB}$

3. $m\widehat{EDC}$ **4.** $m\widehat{ADC}$

5. $m\widehat{ABC}$ **6.** $m\widehat{BC}$

$\overline{FH}$ and $\overline{EG}$ are diameters of $\odot P$. Find each measure.
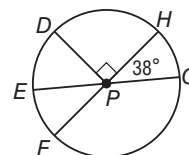
7. $m\widehat{EF}$ **8.** $m\widehat{DE}$

9. $m\widehat{FG}$ **10.** $m\widehat{DHG}$

11. $m\widehat{DFG}$ **12.** $m\widehat{DGE}$
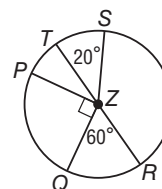

Use $\odot Z$ to find each arc length. Round to the nearest hundredth.

13. $\widehat{QPT}$, if $QZ = 10$ inches   **14.** $\widehat{QR}$, if $PZ = 12$ feet

15. $\widehat{PQR}$, if $TR = 15$ meters   **16.** $\widehat{QPS}$, if $ZQ = 7$ centimeters

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

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

b. 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%