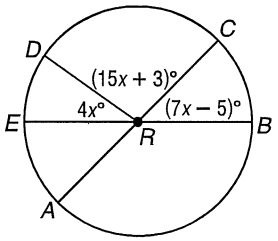
NAME _____ DATE _____ PERIOD _____

10-2

Skills Practice

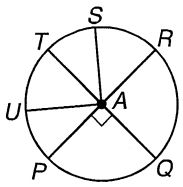
Angles and Arcs

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



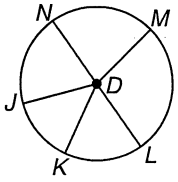
1. $m\angle ERD$
2. $m\angle CRD$
3. $m\angle BRC$
4. $m\angle ARB$
5. $m\angle ARE$
6. $m\angle BRD$

In $\odot A$, $m\angle PAU = 40$, $\angle PAU \cong \angle SAT$, and $\angle RAS \cong \angle TAU$. Find each measure.



7. $m\overset{\frown}{PQ}$
8. $m\overset{\frown}{PQR}$
9. $m\overset{\frown}{ST}$
10. $m\overset{\frown}{RS}$
11. $m\overset{\frown}{RSU}$
12. $m\overset{\frown}{STP}$
13. $m\overset{\frown}{PQS}$
14. $m\overset{\frown}{PRU}$

The diameter of $\odot D$ is 18 units long. Find the length of each arc for the given angle measure.



15. $\overset{\frown}{LM}$ if $m\angle LDM = 100$
16. $\overset{\frown}{MN}$ if $m\angle MDN = 80$
17. $\overset{\frown}{KL}$ if $m\angle KDL = 60$
18. $\overset{\frown}{NJK}$ if $m\angle NDK = 120$
19. $\overset{\frown}{KLM}$ if $m\angle KDM = 160$
20. $\overset{\frown}{JK}$ if $m\angle JDK = 50$

Lesson 10-2