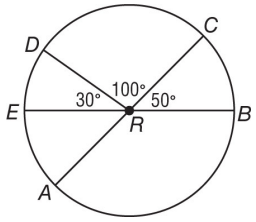
Name _____

Date _____ Hour _____

10.2 *Measuring Angles and Arcs*

Part 1



$\overline{AC}$ and $\overline{EB}$ are diameters of ⊙R. (a) Identify each arc as a major arc, minor arc, or semicircle of the circle. (b) Then find its measure.

1. $m\widehat{EA}$

2. $m\widehat{CB}$

3. $m\widehat{DC}$

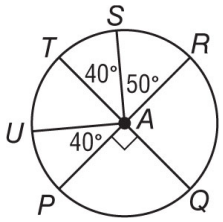
4. $m\widehat{DEB}$

5. $m\widehat{AB}$

6. $m\widehat{CDA}$

Part 2

$\overline{PR}$ and $\overline{QT}$ are diameters of ⊙A. Find each measure.



7. $m\widehat{UPQ}$

8. $m\widehat{PQR}$

9. $m\widehat{UTS}$

10. $m\widehat{RS}$

11. $m\widehat{RSU}$

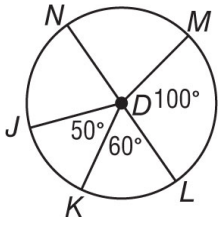
12. $m\widehat{STP}$

13. $m\widehat{PQS}$

14. $m\widehat{PRU}$

Part 3

Use ⊙D to find ***<u>the length</u>*** *of each arc. Round to the nearest hundredth.*



15. $\widehat{LM}$ if the radius is 5 inches

16. $\widehat{MN}$ if the diameter is 3 yards

17. $\widehat{KL}$ if $JD = 7$ centimeters

18. $\widehat{NJK}$ if $NL = 12$ feet