

Measuring Angles and Arcs

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

1. $m\angle ERD$ 28

2. $m\angle CRD$ 108

3. $m\angle BRC$ 44

4. $m\angle ARB$ 136

5. $m\angle ARE$ 44

6. $m\angle BRD$ 152



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

7. $m\overline{PQ}$ 90

8. $m\overline{PQR}$ 180

9. $m\overline{ST}$ 40

10. $m\overline{RS}$ 50

11. $m\overline{RSU}$ 140

12. $m\overline{STP}$ 130

13. $m\overline{PQS}$ 230

14. $m\overline{PRU}$ 320



↓ RADIUS = 9 UNITS

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

15. $\overline{LM}$ if $m\angle LDM = 100$

5 π

16. $\overline{MN}$ if $m\angle MDN = 80$

4 π

17. $\overline{KL}$ if $m\angle KDL = 60$

3 π

18. $\overline{NJK}$ if $m\angle NDK = 120$

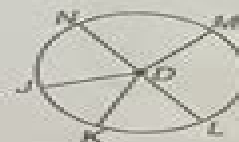
6 π

19. $\overline{KLM}$ if $m\angle KDM = 160$

8 π

20. $\overline{JK}$ if $m\angle JDK = 50$

2.5 π



Measure Up Answer Key

Thomas J. Palumbo



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