

NAME _____ DATE _____ Pd _____

10.2 Central Angles and Arcs

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

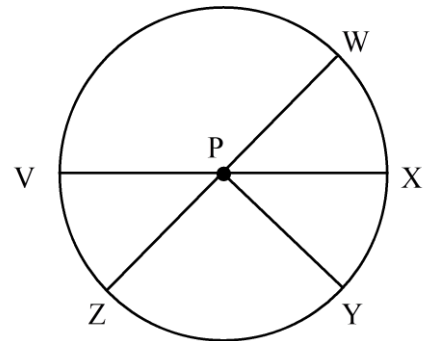
G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

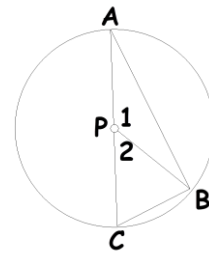
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Minor arc measurements	1 - 4	10, 13, 15	17, 18, 21 - 26, 28
Major arc measurements	5 - 8	11, 12, 14	19, 30, 31
Central angles	1 - 15	16, 20	27, 29
semicircles	1 - 15	19	31

I. In $\odot P$, $m\angle WPX = 38^\circ$, $m\angle ZPY = 95^\circ$. Segments VX and WZ are diameters of the circle. Find the following.



1. $m\widehat{ZY} =$ _____
2. $m\widehat{WX} =$ _____
3. $m\angle VPZ =$ _____
4. $m\widehat{VZ} =$ _____
5. $m\widehat{VWX} =$ _____
6. $m\widehat{ZVW} =$ _____
7. $m\widehat{WYZ} =$ _____
8. $m\widehat{ZXW} =$ _____
9. $m\angle XPY =$ _____
10. $m\widehat{XY} =$ _____
11. $m\widehat{XWY} =$ _____
12. $m\widehat{WZX} =$ _____
13. $m\widehat{VW} =$ _____
14. $m\widehat{VYW} =$ _____
15. $m\widehat{XZ} =$ _____

II. In $\odot P$, $m\angle 1 = 140^\circ$ with diameter \overline{AC} . Find each measure.



16. $m\angle 2 =$ _____
17. $m\widehat{AB} =$ _____
18. $m\widehat{BC} =$ _____
19. $m\widehat{ABC} =$ _____

III. In $\odot P$, $m\angle 2 = m\angle 1$, $m\angle 2 = (4x + 35)^\circ$, $m\angle 1 = (9x + 5)^\circ$ with diameters \overline{BD} and \overline{AC} . Find each of the following.

20. $x =$ _____

26. $m\widehat{AE} =$ _____

21. $m\widehat{ED} =$ _____

27. $m\angle 3 =$ _____

22. $m\widehat{AB} =$ _____

28. $m\widehat{EC} =$ _____

23. $m\widehat{EB} =$ _____

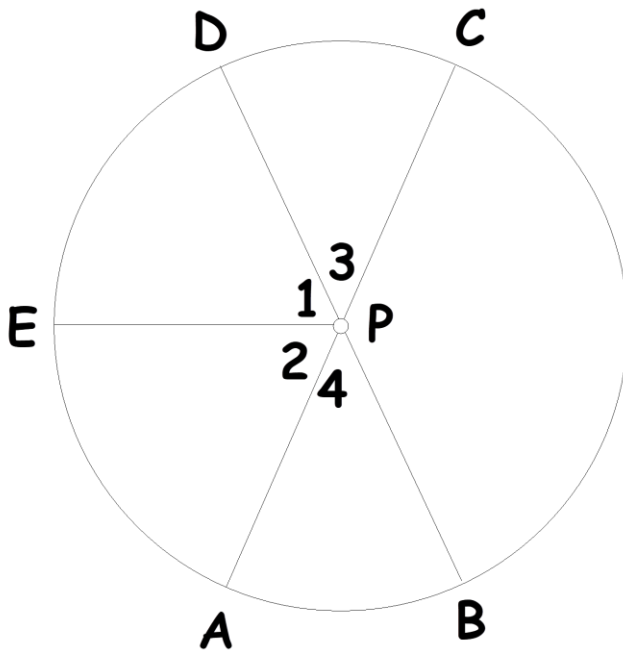
29. $m\angle CPB =$ _____

24. $m\widehat{CB} =$ _____

30. $m\widehat{CEB} =$ _____

25. $m\widehat{DC} =$ _____

31. $m\widehat{CEA} =$ _____



CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

