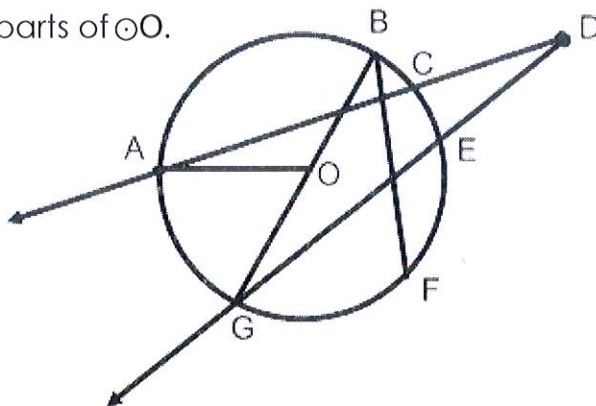


ometry
 Review for Test: Circle Arcs and Angle Measures

Name Key
 Date _____

Use the figure at the right to name the indicated parts of $\odot O$.

1. \widehat{AB} minor arc
2. \widehat{BEG} semicircle
3. \overline{BF} chord
4. \overline{DA} secant
5. $\angle AOG$ central angle
6. \overline{OA} radius
7. \overline{BG} diameter
8. $\angle GBF$ inscribed angle
9. \widehat{BAF} major arc



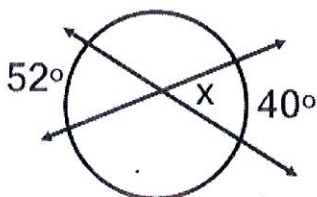
For questions 10 – 12, solve for x.

10. $x = 46^\circ$

11. $x = 15^\circ$

12. $x = 30^\circ$

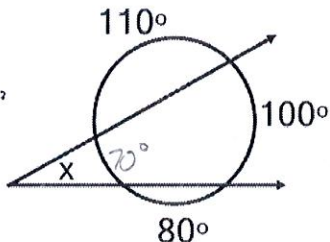
13. In $\odot P$ find $m\widehat{CAB}$.
 $m\widehat{CAB} = 244^\circ$



$$\frac{52 + 40}{2} = x$$

$$\frac{92}{2} = x$$

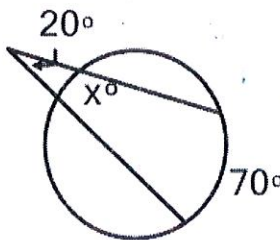
$$46 = x$$



$$\frac{100 - 80}{2} = x$$

$$\frac{20}{2} = x$$

$$10 = x$$

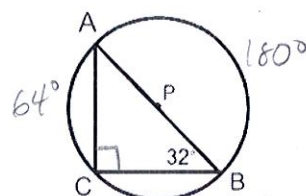


$$\frac{70 - x}{2} = 20$$

$$70 - x = 40$$

$$-x = -30$$

$$x = 30$$



$$64 + 180 = 244$$

In $\odot Q$, $m\angle CQD = 120^\circ$, $m\angle BEC = 25^\circ$, and $m\widehat{BC} = 30^\circ$. Find the following:

14. $m\widehat{DC} = 120^\circ$

15. $m\widehat{AD} = 80^\circ$

16. $m\widehat{AB} = 130^\circ$

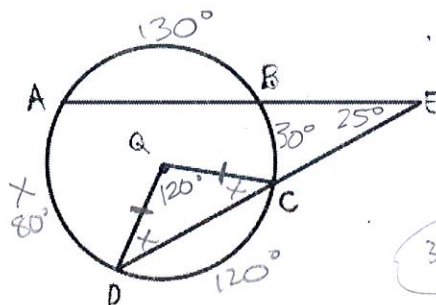
17. $m\angle QDC = 30^\circ$

$$120 + x + x = 180$$

$$120 + 2x = 180$$

$$2x = 60$$

$$x = 30$$



$$\frac{x - 30}{2} = 25$$

$$x - 30 = 50$$

$$x = 80$$

$$360 - 80 - 120 - 30 = 130$$

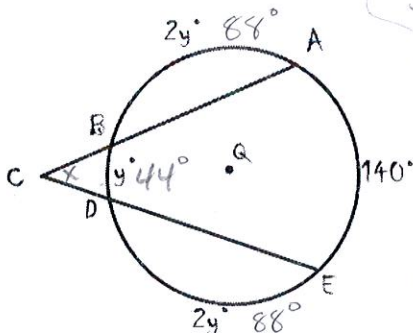
In $\odot Q$, find the following:

18. $m\widehat{BD} = 44^\circ$

19. $m\widehat{AB} = 88^\circ$

20. $m\widehat{DE} = 88^\circ$

21. $m\angle ACE = 48^\circ$



$$y + 2y + 2y + 140 = 360$$

$$5y + 140 = 360$$

$$5y = 220$$

$$y = 44$$

$$\frac{140 - 44}{2} = x$$

$$\frac{96}{2} = x$$

$$48 = x$$

