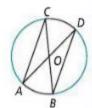
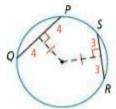
p.776 (1-4, 6-10, 12)

In $\bigcirc O$, $\overrightarrow{mCD} = 50$ and $\overrightarrow{CA} \cong \overrightarrow{BD}$.

- 1. What is \widehat{mAB} ? How do you know?
- 2. What is true of CA and BD? Why?
- 3. Since CA = BD, what do you know about the distance of \overline{CA} and \overline{BD} from the center of ⊙O?



- 4. Vocabulary Is a radius a chord? Is a diameter a chord? Explain your answers.
- 5. Error Analysis What is the error in the diagram?





Practice and Problem-Solving Exercises (





In Exercises 6 and 7, the circles are congruent. What can you conclude?

See Probl

See Probl

See Problems 3 a

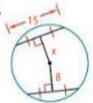






Find the value of x.





10.



11. In the diagram at the right, \overline{GH} and KM are perpendicular bisectors of the chords they intersect. What can you conclude about the center of the circle? Justify your answer.



12. In $\bigcirc O$, \overline{AB} is a diameter of the circle and $\overline{AB} \perp \overline{CD}$. What conclusions can you make?

