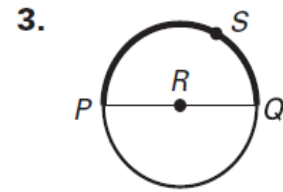
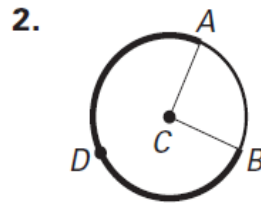
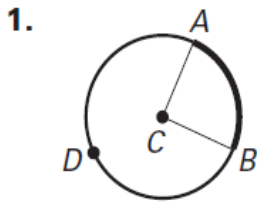


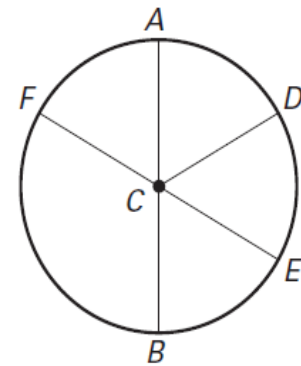
LESSON 10.2 Practice A
For use with pages 659–663

Name the arc shown in bold.



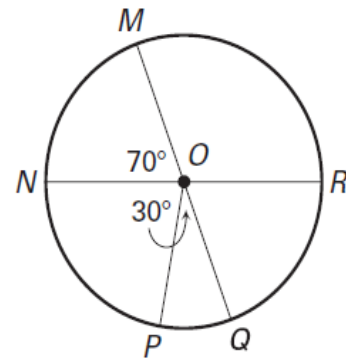
\overline{AB} and \overline{FE} are diameters of $\odot C$. Determine whether the given arc is a *minor arc*, *major arc*, or *semicircle*.

- | | |
|---------------------|--------------------|
| 4. \widehat{AE} | 5. \widehat{AEB} |
| 6. \widehat{FDE} | 7. \widehat{DFB} |
| 8. \widehat{FA} | 9. \widehat{BE} |
| 10. \widehat{BDA} | 11. \widehat{FB} |



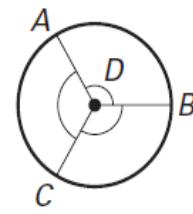
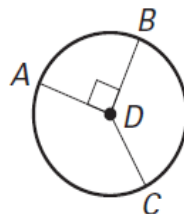
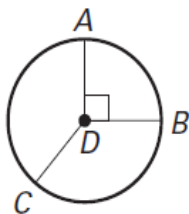
In $\odot O$, \overline{MQ} and \overline{NR} are diameters. Find the indicated measure.

- | | |
|----------------------|----------------------|
| 12. $m\widehat{MN}$ | 13. $m\widehat{NQ}$ |
| 14. $m\widehat{NQR}$ | 15. $m\widehat{MRP}$ |
| 16. $m\widehat{QR}$ | 17. $m\widehat{MR}$ |
| 18. $m\widehat{QMR}$ | 19. $m\widehat{PQ}$ |
| 20. $m\widehat{PRN}$ | 21. $m\widehat{MQN}$ |



Find the indicated arc measure.

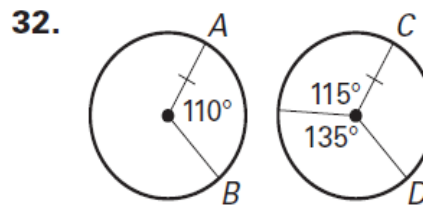
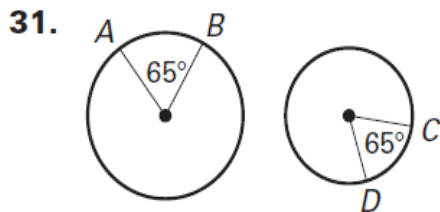
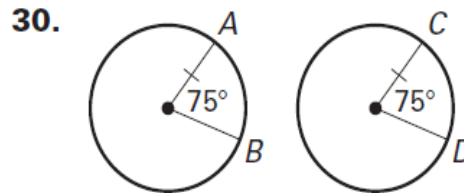
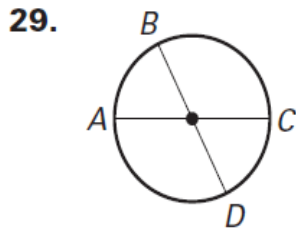
- | | | |
|---------------------|----------------------|---------------------|
| 22. $m\widehat{AB}$ | 23. $m\widehat{ACB}$ | 24. $m\widehat{CA}$ |
|---------------------|----------------------|---------------------|



Use the information given about a central angle of a circle to find the measure of its corresponding arc.

- 25. The central angle is a right angle.
- 26. The central angle is a diameter.
- 27. The central angle is complementary to a 30° angle.
- 28. The central angle is supplementary to a 58° angle.

Tell whether $\widehat{AB} \cong \widehat{CD}$. Explain.



Keeping Time In the clock face shown at the right, the positions of the numbers determine congruent arcs along the circle.

- 33. What is the measure of the arc between any two consecutive numbers?
- 34. An arc is traced out by the end of the second hand as it moves from the 12 to the 4. Is it a *minor arc* or a *major arc*?
- 35. Starting at the 2, what number does the end of the second hand reach as it completes a semicircle?
- 36. When the second hand moves from the 8 to the 3, what is the measure of the arc?
- 37. When the second hand moves from halfway between the 1 and the 2 to $\frac{4}{5}$ of the way from the 1 to the 2, what is the measure of the arc?
- 38. The second hand moves from the 3 to the 7. What is the measure of the corresponding major arc?

