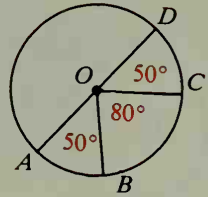


## Classroom Exercises

1. Using the letters shown in the diagram, name:
- two central angles
  - a semicircle
  - two minor arcs
  - two major arcs

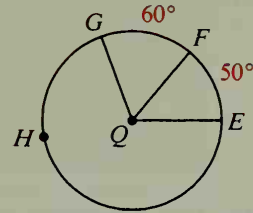


In Exercises 2–7 find the measure of the arc.

- |                    |                    |                    |
|--------------------|--------------------|--------------------|
| 2. $\widehat{AB}$  | 3. $\widehat{AC}$  | 4. $\widehat{ABD}$ |
| 5. $\widehat{BAD}$ | 6. $\widehat{CDA}$ | 7. $\widehat{CDB}$ |

In Exercises 8–13 find the measure of the angle or the arc named.

- |                    |                     |                     |
|--------------------|---------------------|---------------------|
| 8. $\angle GQF$    | 9. $\angle EQF$     | 10. $\angle GQE$    |
| 11. $\widehat{GE}$ | 12. $\widehat{GHE}$ | 13. $\widehat{EHF}$ |



## Written Exercises

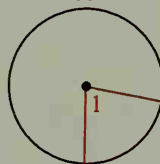
Find the measure of central  $\angle 1$ .

A

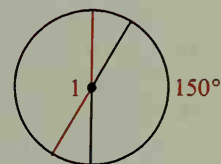
1.  $85^\circ$



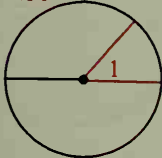
2.  $280^\circ$



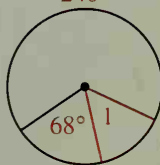
- 3.



4.  $130^\circ$



5.  $240^\circ$



6.  $35^\circ$



7. At 11 o'clock the hands of a clock form an angle of  $\underline{\quad? \quad}^\circ$ .
8. The hands of a clock form a  $120^\circ$  angle at  $\underline{\quad? \quad}$  o'clock and at  $\underline{\quad? \quad}$  o'clock.
9. a. Draw a circle. Place points  $A$ ,  $B$ , and  $C$  on it in such positions that  $m\widehat{AB} + m\widehat{BC}$  does not equal  $m\widehat{AC}$ .
- b. Does your example in part (a) contradict Postulate 16?