Name _____ Date _____

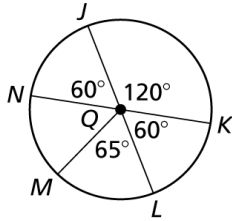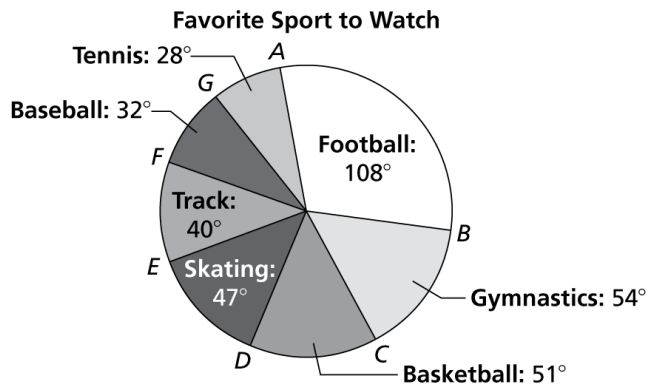**In Exercises 1–4, identify the given arc as a *major arc*, *minor arc*, or *semicircle*. Then find the measure of the arc.**

1. $\overset{\frown}{NM}$

2. $\overset{\frown}{JLM}$

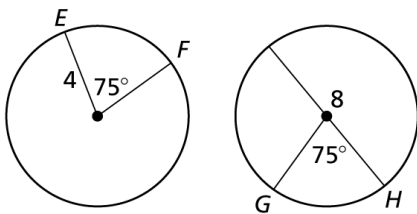3. $\overset{\frown}{NEK}$

4. $\overset{\frown}{LMN}$

5. A recent survey asked high school girls to name the sport they like to watch the most. The results are shown in the circle graph. Find each indicated measure.
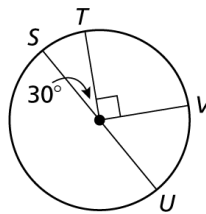
   a. $m\overset{\frown}{FG}$

   b. $m\overset{\frown}{EGB}$

   c. $m\overset{\frown}{DB}$

   d. $m\overset{\frown}{ACE}$

Favorite Sport to Watch

Tennis: 28°
Baseball: 32°
Football: 108°
Track: 40°
Skating: 47°
Gymnastics: 54°
Basketball: 51°

In Exercises 6 and 7, tell whether the given arcs are congruent. Explain why or why not.
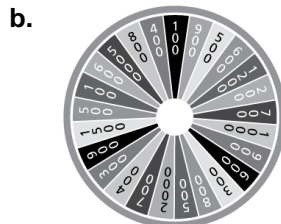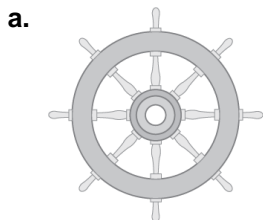
6. $\overset{\frown}{EF}$ and $\overset{\frown}{GH}$

7. $\overset{\frown}{STV}$ and $\overset{\frown}{UVT}$

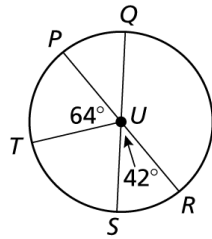8. Each wheel shown is divided into congruent sections. Find the measure of each arc.

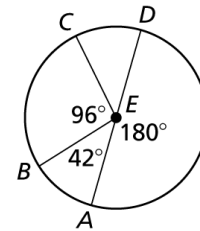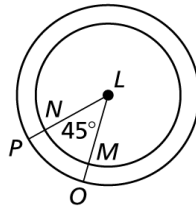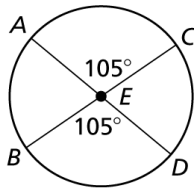   a.

   b.

Name_____ Date _____

10.2 Practice B

In Exercises 1–4, identify the given arc as a *major arc*, *minor arc*, or *semicircle*.
Then find the measure of the arc of ⊙ *U* if $\overline{SQ}$ and $\overline{PR}$ are diameters.

1. $\overset{\frown}{QRS}$

2. $\overset{\frown}{TS}$

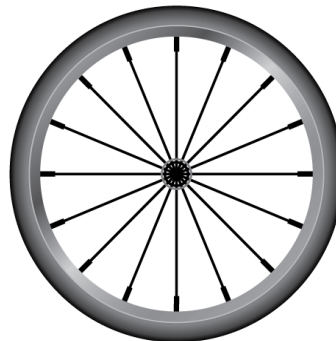3. $\overset{\frown}{TPS}$

4. $\overset{\frown}{PQ}$

In Exercises 5–7, tell whether the given arcs are congruent. Explain why or why not.

5. $\overset{\frown}{AC}$ and $\overset{\frown}{BD}$

6. $\overset{\frown}{NM}$ and $\overset{\frown}{OP}$

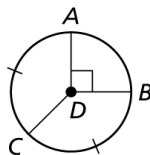7. $\overset{\frown}{AB}$ and $\overset{\frown}{CD}$

8. The spokes on a bicycle wheel divide the wheel into congruent sections. What is the measure of each arc in this circle?
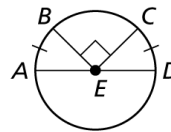
9. Find the measure of each arc.

   a. $\overset{\frown}{AC}$

   b. $\overset{\frown}{DAB}$

10. A water sprinkler covers the area shown in the figure. It moves through the covered area at a rate of about 5° per second.

    a. What is the measure of the arc covered by the sprinkler?

    b. When the sprinkler starts at the far left position, how long will it take for the sprinkler to reach the far right position?