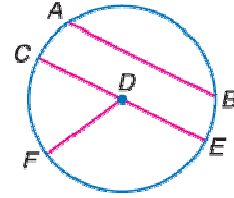


## Lesson 5-8

## Example 1

Use letters to name the parts of circle  $D$ .

- a. three radii      b. a diameter      c. two chords



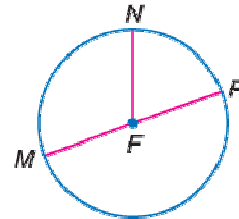
## Solution

- a.  $\overline{DC}$  or  $\overline{CD}$   
 $\overline{DE}$  or  $\overline{ED}$   
 $\overline{DF}$  or  $\overline{FD}$
- b.  $\overline{CE}$  or  $\overline{EC}$
- c.  $\overline{AB}$  or  $\overline{BA}$   
 $\overline{AC}$  or  $\overline{CA}$

## Example 2

Identify the following parts of circle  $F$ .

- a. a minor arc      b. a major arc      c. a semicircle



## Solution

- a.  $\overline{MN}$  or  $\overline{NM}$   
 $\overline{NP}$  or  $\overline{PN}$
- b.  $\overline{MPN}$  or  $\overline{NPM}$   
 $\overline{NMP}$  or  $\overline{PMN}$
- c.  $\overline{MNP}$  or  $\overline{PNM}$

**Example 3**

**MARKET RESEARCH** The results of a survey on favorite types of movies are shown. Find the measure of the arc representing each type of movie.

**Solution**

The arc representing comedies is a semicircle, so it measures  $180^\circ$ .

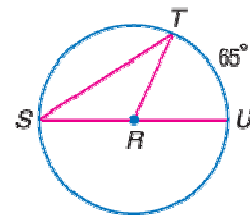
The arc representing dramas measures  $80^\circ$ .

The arc representing action movies measures  $180^\circ - 80^\circ = 100^\circ$ .

**Example 4**

Identify the following for circle R.

- |                       |                    |
|-----------------------|--------------------|
| a. an inscribed angle | b. a central angle |
| c. $m\angle TRU$      | d. $m\angle TSU$   |

**Solution**

- |                 |                                 |
|-----------------|---------------------------------|
| a. $\angle TSU$ | b. $\angle TRU$ or $\angle SRT$ |
| c. $65^\circ$   | d. $32.5^\circ$                 |