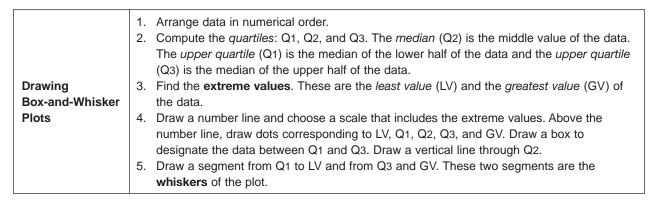
13-5

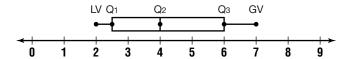
Box-and-Whisker Plots (Pages 737–742)



Example

Draw a box-and-whisker plot for this data: 2, 2, 3, 4, 4, 5, 6, 6, 7.

The median, or Q₂, is 4. The LV is 2 and GV is 7. Q₁ is $(2 + 3) \div 2$ or 2.5. Q₃ is $(6 + 6) \div 2$ or 6.



Practice

1. Recreation The table shows the number of state parks in selected states.

State Parks in Midwest States													
State	No.	State	No.	State	No.	State	No.	State	No.	State	No.	State	No.
IA	53	IL	62	IN	23	KS	24	MI	68	MN	66	МО	47
ND	11	NE	8	ОН	73	OK	47	SD	11	WI	51		

- **a.** Make a box-and-whisker plot of the data.
- **b.** Which half of the data is more widely dispersed?
- **2. Entertainment** The running time in minutes of early and recent Academy Award Best Picture winners are listed in the table at the right.

_	1928–1947	139, 104, 103, 130, 112, 110, 105, 132, 179, 117, 127, 222, 130, 118, 139, 102, 126, 100, 170, 118
	1980–1999	121, 122, 197, 162, 178, 142, 195, 131, 118, 181, 99, 128, 140, 113, 161, 158, 132, 188, 123, 124

- a. Make a box-and-whisker plot of the data for each group of years.
- **b.** Did the lengths vary more in early or recent years?
- **3. Standardized Test Practice** About how much of the data does the box contain in a box-and-whisker plot?
 - **A** one quarter
- **B** one half
- **C** all of the data
- **D** none of these