

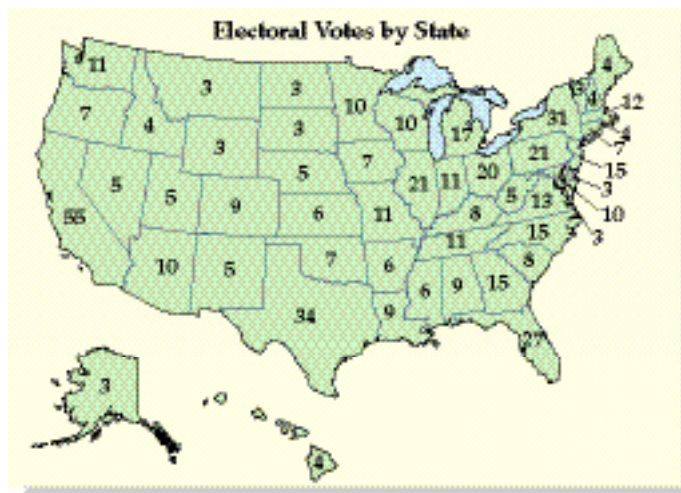
Graphing Calculator Lab

Stem-and-Leaf Plots and Line Plots

You can use the sorting capability of a graphing calculator to help you construct stem-and-leaf plots and line plots of data.

ACTIVITY

GOVERNMENT The map at the right shows the number of electoral votes for each state. Create a stem and leaf plot and a line plot of the data.



Step 1 First enter the data into list L1.

KEYSTROKES: `LIST` `11` `ENTER`
`7` `ENTER` `55` `ENTER` ... `27` `ENTER`

Step 2 Sort the data to order the list from least to greatest.

KEYSTROKES: `2nd` `[STAT]` `1` `2nd` `[STAT]` `1` `ENTER`

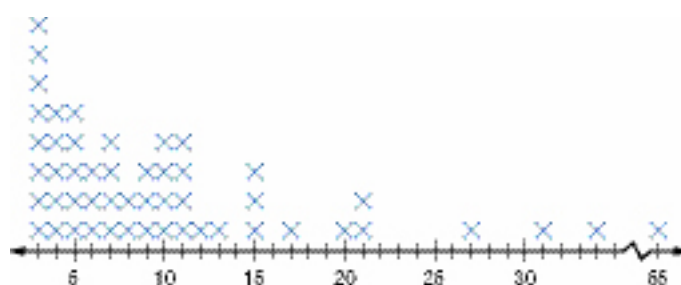
Step 3 View the list on the calculator to create the plots. Use the arrow keys to scroll through the data.

KEYSTROKES: `LIST`

Stem-and-Leaf Plot

Stem	Leaf
0	333333334444455555
•	666777788999
1	00001111235557
2	0117
3	14
5	5 0 3=3

Line Plot



ANALYZE THE RESULTS

- The table below shows the number of jobs in the National Parks in Texas. Make a stem-and-leaf plot and a line plot of the data.

2	567	239	124	267	38	222
659	88	692	1	1	811	3704

- When is it helpful to use the calculator to create stem-and-leaf plots or line plots?