Technology *Tip*
TI-83 and TI-84
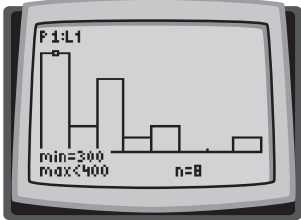
Displaying a Histogram

To display a histogram of data in a list, you need to specify the viewing window for the graph by selecting values for Xmin, Xmax, Xscl, Ymin, Ymax, and Yscl.

* Xmin is the number where you would like the horizontal axis to begin.

* Xmax is the number where you would like the horizontal axis to end.

* Choosing Xscl = 100 sets the width of each bar of the histogram to 100.

* Choosing Ymin = −2 leaves room at the bottom of the screen for the text.

* Choosing Ymax = 10 leaves room for a bar 10 units high.

* Selecting Yscl = 1 produces tick marks on the vertical axis that are 1 unit apart.

The following instructions display a histogram of total calories for Problem 8 on page 82.

Calculator Commands	Expected Display
To enter data: WINDOW ▼ 3 0 0 ENTER	WINDOW Xmin=300 Xmax=20 Xscl=2 Ymin=0 Ymax=50 Yscl=5 Xres=1
▼ 1 1 0 0 ENTER ▼ 1 0 0 ENTER ▼ (−) 2 ENTER ▼ 10 ENTER ▼ 1 ENTER	WINDOW Xmin=300 Xmax=1100 Xscl=100 Ymin=-2 Ymax=10 Yscl=1 Xres=1
To choose a histogram: 2nd Y= 1 (If the plot is OFF, press ENTER to select ON. Be sure other plots are OFF.)	Plot1 Plot2 Plot3 On Off Type: ⌐ ⌐ ⊪ ⊞ ⊠ ⊿ Xlist:L₁ Freq:1

Calculator Commands	Expected Display
Arrow to the histogram next to Type: ENTER	 Plot1 Plot2 Plot3 On Off Type: Xlist:L₁ Freq:1
GRAPH TRACE	P 1:L1 min=300 max<400 n=8

Note: If no vertical axis appears on your graph, press 2nd ZOOM to get the FORMAT menu.
Then select AxesOn.