

## 2. TECHNOLOGY CORNER

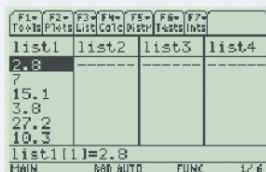
# HISTOGRAMS ON THE CALCULATOR

TI-Nspire instructions in Appendix B; HP Prime instructions on the book's Web site.

### TI-89

1. Enter the data for the percent of state residents born outside the United States in your Statistics/List Editor.

- Press **APPS** and select Stats/List Editor.
- Type the values into list1.



F1	F2	F3	F4	F5	F6	F7
Top	Pr	Li	Co	Di	Te	Ma
list1	list2	list3	list4			
2.8						
7						
15.1						
3.8						
27.2						
19.3						
list1[1]=2.8						
MAIN	RAD	AUTO	FUNC	1/8		

2. Set up a histogram in the Statistics Plots menu.

- Press **F2** and choose Plot Setup...
- With Plot1 highlighted, press **F1** to define.

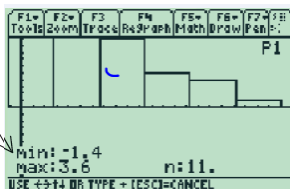
Set Hist.  
Bucket  
Width to 5.

- Adjust the settings as shown.

3. Use ZoomStat (ZoomData on the TI-89) to let the calculator choose classes and make a histogram.

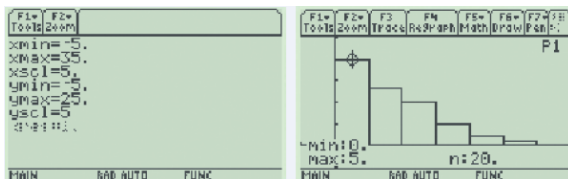
- Press **TRACE** and **◀ ▶** to examine the classes.
- Press **F5** (ZoomData).
- Press **F3** (Trace) and **◀ ▶** to examine the classes.

Note the calculator's  
unusual choice of  
classes.



4. Adjust the classes to match those in Figure 1.16, and then graph the histogram.

- Press **◀ F2** (WINDOW) and enter the values shown below.
- Press **◀ F3** (GRAPH).
- Press **F3** (Trace) and **◀ ▶** to examine the classes.



5. See if you can match the histogram in Figure 1.17.

**AP® EXAM TIP** If you're asked to make a graph on a free-response question, be sure to label and scale your axes. Unless your calculator shows labels and scaling, don't just transfer a calculator screen shot to your paper.