Technology Activity

Cost

0.5

1

1.5

2

2.4

2.7

GRAPHING CALCULATOR

12 3

1111

Making Data Displays

GOAL Use a graphing calculator to create data displays.

Example 1 The table shows the cost, in dollars, of a phone call, **Minutes** based on the length, in minutes, of the call. Make 5 a scatter plot or a line graph on your calculator. 10 Solution 15 20 1 Enter the data into two lists. 2 Choose maximums and 25 minimums for the window. 30 VINDOW Xmin=010 X m a x = 401.5 15 20 $\Delta X =$.4255319148. 2 Xscl=5 2.4 25 Ymin=0 30 Ymax=3 $L_{2}(5)$ Y = 1 = 53 Press **GRAPH** to show the Choose a display from the PLOT menu and set the Xlist and Ylist. display you have chosen. 3 0ff └── <u><u></u><u></u><u></u> <u>f</u> <u>f</u></u> lot1 0 n ype: $\mathcal{L}_{\mathcal{A}}$ <u>_____</u> 0 2 XList:L1 List:L2 1 Mark: 🗖 0 10 20 30 40 0 Choose _____ for a scatter plot or \nvdash for a line graph. Your turn now Make a scatter plot and a line graph of the data. 1. Year 1997 1998 1999 2000 2001 39.8 26.1 Rainfall (in.) 21.4 34.5 44.9

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Example 2

The table shows the number of people out of 200 surveyed who prefer each type of music. You can use a graphing calculator to make a circle graph of the data.

	-
Рор	75
Rock	62
Country	43
Classical	20

Solution

1

Press **LIST**. Then use the TEXT menu to name a list and its categories. Use quotation marks for the first item, so the calculator recognizes that the list is *categorical* (contains words).



number display

Your turn now

You can display the data as numbers or as percents.

Make a circle graph of the survey data.

2.	Did You Get Enough Sleep?	
	Need more	541
	Need less	167
	Just right	282
	Don't know	21

3.	The last movie I saw I watched	
	in a theater.	410
	on a television.	483
	on a computer.	21

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