

ACTIVITY 6.7

Using Technology

Graphing Calculator Activity for use with Lesson 6.7

Box-and-Whisker Plots

You can draw a box-and-whisker plot using a graphing calculator or computer. Technology is especially useful for large groups of data or multiple sets of data.

EXAMPLE

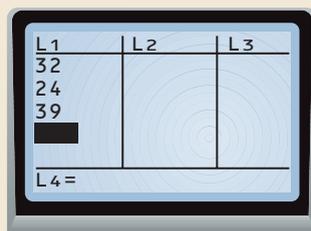
Draw a box-and-whisker plot of the following data.

32, 24, 39, 55, 67, 35, 23, 61, 11, 44, 43, 30, 29

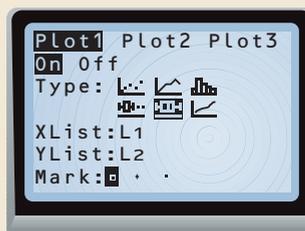
SOLUTION

Calculators vary but follow the same general instructions for graphing box-and-whisker plots. Be sure to set reasonable WINDOW settings.

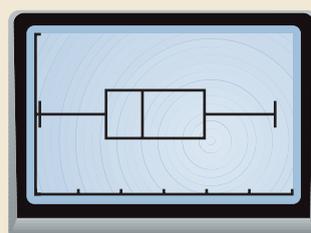
- 1 Clear all lists and enter the given data.



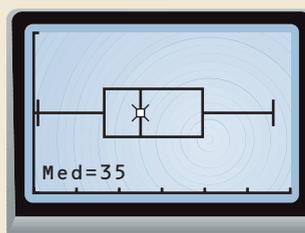
- 2 Choose to sketch a box-and-whisker plot.



- 3 Use **ZOOM** to set a statistics viewing window. Press **GRAPH** to sketch the box-and-whisker plot.



- 4 Use **TRACE** and the direction arrows to find quartile values.



EXERCISES

Use a graphing calculator or computer to draw a box-and-whisker plot of the data. List the first, second, and third quartiles.

1. Ages of students' brothers: 19, 12, 14, 9, 14, 4, 17, 13, 19, 11, 6, 19
2. Cost of CDs (in dollars): 11, 10, 12, 14, 17, 16, 14, 6, 8, 14, 20
3. Temperatures in February (in degrees Fahrenheit): 20.1, 43.4, 34.9, 23.9, 33.5, 24.1, 22.5, 42.4, 25.7
4. Miles traveled on weekends: 78.4, 76.3, 107.5, 78.5, 93.2, 90.3, 77.8, 37.1, 97.1, 75.5, 58.8, 65.6, 3.2

STUDENT HELP



See keystrokes for several models of calculators at www.mcdougallittell.com