## 2-4 Stem-and-Leaf Plots

## MAIN IDEA

- Display and analyze data using a stem-andleaf plot.


## Write It

When is a stem-and-leaf plot an especially useful way to display data?
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## BUILD YOUR VOGABULARY (pages 27-28)

In a stem-and-leaf plot, the data is ordered from
 and is organized by place value.

The stems of the plot are the $\square$ written to the left of the vertical line.
 to the $\square$ of the vertical line.

The key explains the stems and $\square$

## EXAMPLE Construct a Stem-and-Leaf Plot

(1) WEATHER Make a stem-and-leaf plot for the data in the table.

Step 1
Order the data from $\square$ to $\square$

Step 2 Draw a vertical line and write the tens digits from least to greatest to the left of the line. These digits


Step 3 $\square$ digits in order to the $\square$ of the line with the corresponding stem. The units digits form the $\square$

## FOLDABLES

## ORGANIZE IT

Under Lesson 2-4 in your journal, explain how to construct a stem-and-leaf plot. Include an example using your own data. Label the parts of the plot.


Step 4 Include a $\square$ that explains the stems and leaves.

## Average July Highs

| Stem | Leaf |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | 6 | 7 | 9 |  |  |  |  |  |  |  |  |  |
| 7 | 0 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 |
| 8 | 1 | 8 | 9 |  | 718 | 78 |  |  |  |  |  |  |

## Check Your Progress

DRIVING Make a stem-and-leaf plot for the data in the table.

| Speeds of Cars Driving on the Highway |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (miles per hour) |  |  |  |  |  |  |  |  |
| 65 | 72 | 69 | 58 | 81 | 66 | 61 | 74 | 78 |
| 70 | 66 | 59 | 74 | 78 | 71 | 68 | 65 | 66 |

## EXAMPLE Analyze Plots

2 FOOTBALL The following stem-and-leaf plot shows the total points scored in 39 recent Super Bowls. Write a few sentences analyzing the data.

| Total points |  |  |  |  |  |  |  |  |  |
| :---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Stem | Leaf |  |  |  |  |  |  |  |  |
| 2 | 1 | 2 | 3 | 7 | 9 |  |  |  |  |
| 3 | 0 | 1 | 3 | 7 | 7 | 7 | 8 | 9 | 9 |
| 4 | 1 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 7 |
| 5 | 0 | 2 | 3 | 4 | 5 | 6 | 6 | 9 |  |
| 6 | 1 | 5 | 6 | 9 |  |  |  |  |  |
| 7 | 5 |  |  |  |  |  | $513=53$ |  |  |

Homework Assignment
Page(s):
Exercises:

