

EXTRA PRACTICE **1-3****STEM-AND-LEAF PLOTS****EXERCISES**

This stem-and-leaf plot shows the number of minutes students exercised one school day.

1	2 5 9
2	0 4 5 8
3	1 3 6 7 9
4	2 5 5 8
5	3 5 8
6	0

3|1 represents 31 minutes

1. How many students are represented in this stem-and-leaf plot? _____
2. How many students exercised more than 40 minutes? _____
3. How many students exercised fewer than 30 minutes? _____
4. How many students exercised 55 minutes? _____
5. Find the mean of this data. _____
6. Find the median of this data. _____
7. Find the mode of this data. _____
8. Find the range of this data. _____

For Exercises 9–16, use the data at the right that represents the number of hours Nina worked each week since she started her new job.

46 32 16 24 40 45 40 36
 29 24 25 38 40 42 50 40
 35 45 46 36 35 28 25 38

9. Create a stem-and-leaf plot of the data.
10. How many weeks are represented? _____
11. What is the greatest number of hours? _____
12. What is the least number of hours? _____
13. Identify any outliers. _____
14. Identify the clusters. _____
15. Identify the gaps. _____

RETEACHING 1-3

STEM-AND-LEAF PLOTS

A stem-and-leaf plot can help you organize data so it can be easily analyzed.

Example

Make a stem-and-leaf plot for the high temperatures listed in the chart. Then write a description of the data.

MONDAY'S TEMPERATURES					
	High	Low		High	Low
Anchorage	70	54	Miami Beach	88	73
Boston	79	73	New York	89	73
Chicago	99	74	Richmond	97	77
Denver	84	60	St Ste Marie	75	56
Honolulu	87	75	Seattle	82	59
Houston	89	74	Washington	97	79
Los Angeles	76	63			

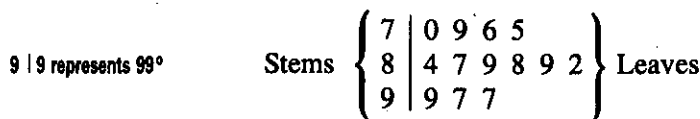
Solution

Step 1: Form the stem.

The high temperatures range from 70 to 99. Use the digits in the tens place, 7, 8, and 9, as the stems. Write them in a column. Draw a vertical line to the right.

Step 2: Form the leaves.

Show the first high temperature, 70° for Anchorage, by writing a "leaf," 0, next to the "stem," 7. To show 79° for Boston, write 9 next to the 0. Enter the rest of the leaves in the same way.



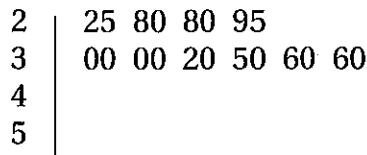
Step 3: The 70 is an outlier (extremely high or low value). Clusters (groups of values close to one another) appear in the high 80s and high 90s. There is a large gap (space between values) between 89 and 97.

EXERCISES

1. On a separate sheet of paper, make a stem-and-leaf plot for the low temperatures.
2. Write a description of the data noting any outliers, clusters, or gaps.

3. Complete the stem-and-leaf plot for advertised monthly rents for one-bedroom apartments. Use the numbers in the hundreds as the stem.

Rents for 1-Bedroom Apartments			
\$400	\$400	\$425	\$225
\$295	\$360	\$300	\$280
\$435	\$360	\$350	\$400
\$350	\$280	\$550	\$375
\$400	\$415	\$325	\$395
\$320	\$300	\$380	\$470



4. On a separate sheet of paper, describe the data to a person who is looking for a one-bedroom apartment.