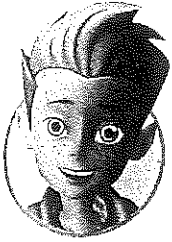




Homework 15-7

Making Stem-and-Leaf Plots

Another Look!



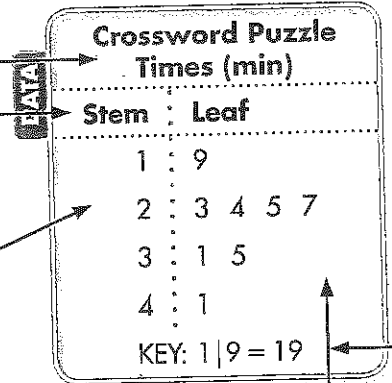
The list shows the number of minutes it took each person to complete a crossword puzzle.

Crossword Puzzle Times (min)

35, 23, 27, 31, 25, 24, 19, 41

To represent the data in a stem-and-leaf plot:

1. Write a title. _____
2. Draw two columns. Label one column **Stem** and one column **Leaf**.
3. Write the numbers in order from least to greatest:
19, 23, 24, 25, 27, 31, 35, 41
4. Write the tens digits from the data in order from least to greatest in the stem column.
5. Next to each stem, write the ones digit from each data value from least to greatest.
6. Include a key for the data values. _____



1. Order the data from least to greatest.

Number of Pages Read

49, 57, 48, 54, 53, 72, 68,
62, 64, 51, 62, 71, 78

2. Complete the stem-and-leaf plot for the data in 1.

Pages Read	
Stem	Leaf

3. Order the data from least to greatest.

Hours Worked in 10 Days

28, 30, 35, 40, 28, 32, 41, 34, 38, 33

4. Complete the stem-and-leaf plot for the data in 3.

Hours Worked	
Stem	Leaf

KEY: 2|8 = 28



Remember that the number of leaves should be the same as the number of data values.

For 5 and 6, use the stem-and-leaf plots that show the prices in dollars of items in two stores.

5. Analyze Information What is the difference between the lowest price in Store 1 and the lowest price in Store 2? the highest prices?

Store 1	
Stem	Leaf
1	0 1 2 4
2	1 3 6 7 8
3	0 1 2 2 2 4 8
4	0 1 2 5

KEY: 1|0 = 10

Store 2	
Stem	Leaf
2	0 1 8 9 9
3	1 3 7 8
4	0 1 2 3 4 6 7 9
5	5 7 8

KEY: 2|0 = 20

5. Extend Your Thinking Overall, which store has more expensive items? Explain.

7. Which number is NOT represented in the stem-and-leaf plot?

Number of Pages Read	
Stem	Leaf
0	7 8 8 9 9
1	0 0 0 1 2 2 4 7 8
2	5

KEY: 1|0 = 10

- A 8
- B 11
- C 12
- D 13

8. Explain Why is it helpful to write the data from a table in numerical order before making a stem-and-leaf plot?

Make sure your explanation is clear and simple.



9. Represent The list shows the mass of several textbooks. Complete the stem-and-leaf plot of the data.

Mass of Textbooks (kg)
2.4, 4.2, 3.5, 1.9, 4.5, 2.1, 2.2, 3.1

Mass of Textbooks (kg)	
Stem	Leaf

KEY: 1|9 = 1.9

10. Explain What steps did you use to make the stem-and-leaf plot in Problem 9?

11. Extend Your Thinking The weights of different televisions range between 10.2 pounds and 15.3 pounds. Write a key that could be used in a stem-and-leaf plot of this data. What stems might be in the plot?