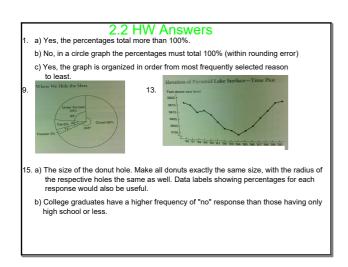
2.3 Stem and Leaf Plots with work



2.3 Stem-and-Leaf Plots

Essential Question:

When should I use a stem-and-leaf plot versus other style of graphs?

Focus Points:

- Construct a stem-and-leaf display from raw data.
- Use a stem-and-leaf plot to visualize data distribution.
- Compare a stem-and-leaf plot to a histogram.

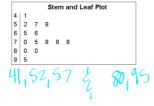
Sep 25-10:02 AM

A stem-and-leaf display is a method of explanatory data analysis that is used to rank-order and arrange data into groups.

Sep 25-9:04 AM



List the 3 lowest and 2 highest numbers from this data set.



Sep 25-10:22 AM

How to Make a Stem-and-Leaf Display

- Divide the digits of each data value into two parts. The leftmost part is called the stem and the rightmost part is called the leaf.
- Align all the stems in a vertical column from smallest to largest. Draw a vertical line to the right of all the stems.
- Place all the leaves with the same stem in the same row as the stem, and arrange the leaves in increasing order from left to right.
- Use a label to indicate the magnitude of the numbers in the display.
 We include decimal position in the label rather than with the stem or leaves.

Sep 25-10:27 AM

EXAMPLE 1: Basketball What does it take to win at sports? If y

What does it take to win at sports? If you're talking about basketball, one sportswriter gave the answer. He listed the winning scores of the conference championship games over the last 35 years. The scores for those games follow below.

 132
 148
 124
 109
 104
 101
 125
 83
 99
 131
 98
 125

 97
 106
 112
 92
 120
 103
 111
 117
 135
 143
 112
 142

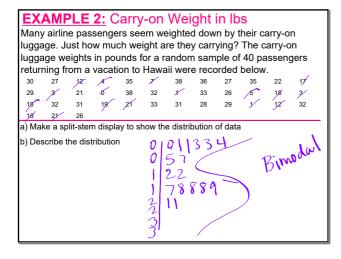
 146
 106
 117
 149
 140
 105
 128
 142
 126
 105
 102

a) Create a stem-and-leaf plot b) Describe the distribution

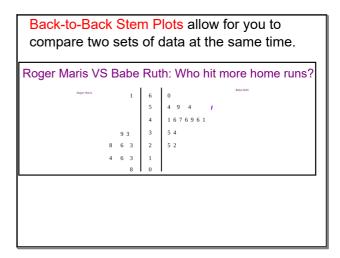
8 3
9 2 7 8 9
10 12 22 2 6 77 8 9
12 0 455 8 8
13 12 5
14 3

Sep 25-10:31 AM Sep 25-10:34 AM

2.3 Stem and Leaf Plots with work

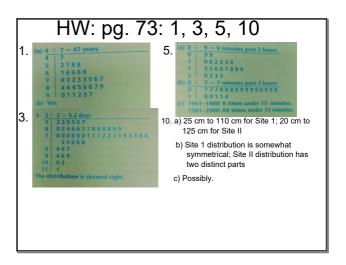


Sep 25-10:43 AM Sep 25-10:51 AM



WHAT DO STEM-AND-LEAF DISPLAYS TELL US?

- shows us all the data in order from smallest to largest
- helps us spot extreme data values (outliers) or clusters (gaps) of data values
- displays the shape of the data distribution



Sep 25-10:56 AM Sep 25-10:53 AM