Statistical Reasoning Making Graphical Displays

Name:

Stem-and-Leaf Plots

A stem-and-leaf plot uses the digits of data values to organize a data set. Each digi on

tem-and-leaf plot shows how data		Key: $2 \mid 0 = 20$
gits on the left) and a <mark>leaf</mark> (digit or digits the right).	4 5	1 4 8 2 8 9
ta value is broken into a stem (digit or	2	1 4 0

are distributed.

The key explains what the stems and leaves represent.

1. Make a stem-and-leaf plot of the hair lengths.



Regular Stem and Leaf Plot

Regular Sterri and Leaf Plot				
<u>Stem</u>	Leaf			
٥	111224557			
I	2 037 0238 047			
2	037			
3	0238			
4	047			

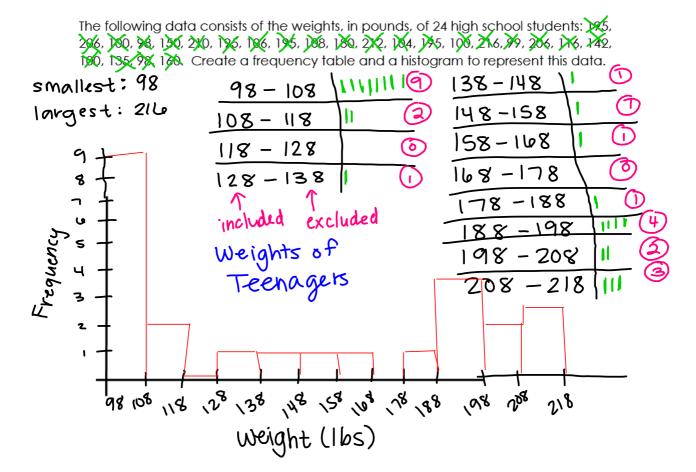
Key:
$$4|7 = 47$$

Split Stem and Leaf Plot

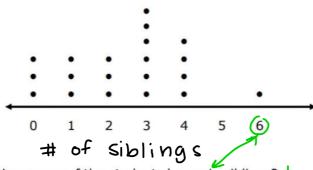
	stem	<i>leaf</i>
- 5	Ç O	111224
0-0	0	557
5-9	,	2
	1	
	2	0 3
_	2	7
	3	023
	3	8
	4	0 4
	4	7
	Key:	4 7 = 47

Parts of a Histogram





 The students in one social studies class were asked how many brothers and sisters (siblings) they each have. The dot plot here shows the results.



- a. How many of the students have six siblings?
- b. How many of the students have no siblings? 3
- c. How many of the students have three or more siblings?

Nathan asked his classmates to estimate the number of hours they spend doing homework each week. The following data shows the results of his survey.

Y, Y, X, Z, T, X, Z, B, X, A, T, K, Z, K, 5, V/X, X, X46

