

Alg 1 0.13

Represent sets of data using different visual displays

- frequency table
- bar graph
 - horizontal
 - vertical
- cumulative frequency
- histogram
- line graph
- stem-and-leaf plot
- circle graph (pie chart)
- box-and-whisker plot (boxplot)

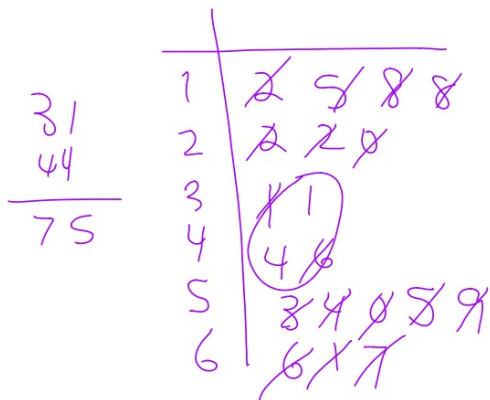
60-69	1
70-79	111
80-89	111
90-99	1

Stem & Leaf plot *med 37.5*

12 15 22 31 18 44 53 66 54 22 31 61 50 46 67
55 18 20 59

12 15 18 18

Always need key



$$1 | 2 = 12$$

ice

IN-CLASS ACTIVITIES

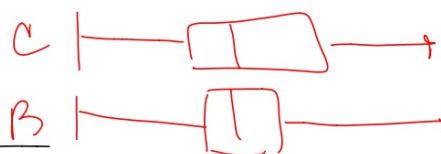
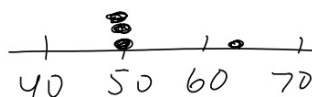
Activity 5-1: City Temperatures

The following table reports the average monthly temperatures for San Francisco, California, and for Raleigh, North Carolina. Dotplots of these twelve temperatures for each city appear below.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Raleigh	39	42	50	59	67	74	78	77	71	60	51	43
San Francisco	49	52	53	56	58	62	63	64	65	61	55	49

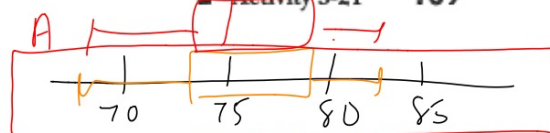
Double boxplot

Topic 5: Measures of Spread



Activity 5-21 109

Activity 5-21: Limitations of Boxplots



Consider the hypothetical exam scores presented below for three classes of students.

Dotplots of the distributions are also presented.

class A:	50	50	50	63	70	70	70	71	71	72	72	79	91	91	92
class B:	50	54	59	63	65	68	69	71	73	74	76	79	83	88	92
class C:	50	61	62	63	63	64	66	71	77	77	77	79	80	80	92

