

Enter the following data sets into your calculator to use on Test 1:

L_1 :

19	31	52	34	84	18	52	37	24	29
33	46	19	32	41	49	26	32	46	44
28	35	49	34	45	63	56	35	21	66
59	39	61	50	37	29	30	51	54	41

L_2 :

96	69	82	91	99	76	82
94	83	96	74	124	85	106
111	91	113	87	79	102	84
84	78	109	80	113	101	123
81	69	89	100	99	104	126

L_3 :

75	74	69	66	73	85	67	69	67	71	75	68	65	63
70	65	68	72	73	65	72	63	73	68	69	75	69	75

*Chapter 1 & 2***Know the meaning of**

▷ population, sample, statistic, descriptive statistics, inferential statistics, categorical data, numerical data, continuous data, and discrete data

- *Homework Chapter 1- all fill-in, T/F, multiple choice questions*
- *Class worksheet Chapter 1 in notes*
- *Chapter 2 Example 2.2 on pg. 35*

*Chapter 2***Stem-and-leaf display**

▷ construct, identify outliers, describe the shape

Frequency distribution table

▷ construct with class limits, class frequency, class boundaries, class marks, and relative percentages

▷ determine the number and percent for given question on the data (*like pg.80 #115 d-g*)

Histogram

▷ construct with class boundaries and frequency for each class clearly labeled

▷ *x*-axis labeled with variable and class boundaries, *y*-axis is frequency, and title the histogram

▷ know the how to set the window parameters

- *Homework Chapter 2 - pg. 71-80 # 7, 18, 21, 22, 39a, 115, 116*
- *Examples from Handout/Notes*

*Chapter 3***Mean, median, mode**

▷ calculate each

▷ determine which one(s) might be the best measure of central tendency for a data set

Range, standard deviation

▷ calculate each

▷ determine which data group is more consistent or varied

Z-score

▷ calculate

▷ explain what the z-score means of a data value

▷ data value with a z-score smaller than -3 or larger than 3 is potential outlier

▷ use to determine, for example, which grade on an exam shows better achievement relative to the class (*like Example 3.25 pg.117*)

Empirical Rule

▷ know the Empirical Rule: 68% of data 1 standard deviation from the mean, 95% 2 standard deviations from mean, 99 to 100% 3 standard deviations from mean

▷ determine the percent of data which falls between two given values (**use z-score for this**)

- *Homework Chapter 3 - pg. 137-142 # 20, 21, 22, 46, 50, 64a, b, c, e, f, 88, 109*
- *Examples from Handout/Notes*