Kin 175; Spring 2011
Orientation Worksheet for Predictive Analytics Software (PASW)

Objective: Learn the topics Central Tendency and Variability and use information obtained from orientation, course supplement, lecture slides, and PASW videos to complete this worksheet.

Read course supplement up through page 10

Watch the two PASW videos on central tendency and variability

Watch, if needed, the lecture video: Measurement Scales, Central Tendency, Variability

Analysis: Part 1 - Central Tendency & Variability

Using hoola data file

Check for errors - make corrections as needed
- Save updated data file to your desktop and/or memory stick

Obtain appropriate measure of Central Tendency and Variability, for hoola 1 and hoola 2 (continuous data)
- Check shape (histogram)
- Use statistics button under frequencies menu to select appropriate measures of central tendency (mean or median) and variability (standard deviation)

Compare average of hoola scores of men and women
- Create new variable: average hoola score
  - Use Graphs to check shape
  - Use compare means for central tendency

Compare average of hoola scores from each semester
- Use Graphs to check shape
- Use compare means for central Tendency

Clean up your output file. Make sure there are headings for each analysis. Save your output file to your desktop and/or memory stick.

Upload your output file to D2L dropbox titled orientation files.

Analysis: Part 2 - Creating New Data File; Central Tendency & Variability

Create a data file for these handstand balance scores.
Make sure you create
Variable Labels
Value labels for the variable 'Group'

Save this data file to your desktop and/or memory stick.

Seconds	Group (1 = male; 2 = female)
8	1
6	1
6	1
6	1
4	1
3	1
3	1
2	1
15	2
11	2
4	2
4	2
2	2
1	2

Look at shape overall for handstand times and for each group
Obtain all measures of CT and variability

Analysis: Part 3 - Error Checking; Percentages; Central Tendency; Variability

Use Cereals File - Remember to read the description of the file so you understand the contents.

Check for errors - correct using missing values

Construct frequency distribution tables to summarize data for each categorical & ordinal variables then interpret - write comment in output file

obtain clustered bar chart for shelf clustered by type of cereal then interpret - write comment in output file

Compare sugar content for cereals on shelf 2 and 3.
Note: you will need to use Select if shelf >1
check shapes with graphs - histogram
obtain appropriate measures of Central Tendency and Variability with compare means and interpret

Analysis: Part 4 - Creating New Variable; Central Tendency

Continue using Cereals File (use your cleaned up complete version of the file)

Summarize the ratings information. You have two scores which you must average.

Create new variable (average of rating 1 and 2)
Check shape of average rating scores
use statistics button under frequencies menu to obtain mean, median, mode, standard deviation, minimum, and maximum values
interpret

Based on the average rating variable, which shelf contains the cereals that on average have higher ratings? - write comment in output file