CH1 LAB - DESCRIPTIVE STATISTICS

The Ultimate Test of Life Satisfaction has a mean of 15.0 and standard deviation of 2.0 for all students at UW. Eight former 4100 students obtained the following scores: 20, 17, 19, 15, 19, 18, 14, and 21. Complete calculation questions using only the formula sheet and your calculator.

1. Enter the data in SPSS with *sat* as the variable name. Use DESCRIPTIVE to obtain the sum of the scores. Compare to the value obtained with your calculator and calculate the mean.

2. Use the FREQUENCY command to create a frequency distribution. Compare the mean shown to your calculation in 1.

3. Use COMPUTE and DESCRIPTIVE to calculate the sum of squared deviations about the mean. Repeat to calculate sum of squared deviations about two values, one higher and one lower than the mean. Compare the values.

4. Use *sdev2* to calculate s^2 and s. Compare to FREQUENCY value and DESCRIPTIVE output.

5. Imagine that many thousands of samples were selected from the population of UW students. What would be expected for the mean and standard deviation (standard error) of all the sample means?