Homework Problem Set 3

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# Calculate the standard deviation using either formula discussed in class.

set.seed(090821)  
  
test\_scores = c(81, 78, 91, 88, 95, 97, 99, 79, 73, 74)  
  
N = 10

test\_scores

## [1] 81 78 91 88 95 97 99 79 73 74

**Answer**

81 + 78 + 91 + 88 + 95 + 97 + 99 + 79 + 73 + 74 = 855

855^2 = 731025

81^2 + 78^2 + 91^2 + 88^2 + 95^2 + 97^2 + 99^2 + 79^2 + 73^2 + 74^2 = 73951

731025/10 = 73102.5

73951 – 73102.5 = 848.5

10 – 1 = 9

848.5/9 = 94.28

= 9.71

Sd = 9.71

# SPSS Practice

1. Gather descriptive statistics using the descriptives tab in SPSS for the following variables. (Get a screenshot of this table and put it on this word document.)

* ffq\_sausage
* ffq\_pizza\_portion
* dass\_stress\_q1
* dass\_depress\_q7

**Picture Answer**

1. Get the z-transformed variables from problem 1. (Screenshot the variables in either the Data View or the Variable View.)

**Picture Answer**

1. Get the descriptive statistics and the histograms for the z-transformed variables from problem 2. Use the frequencies tab for the descriptive statistics (Screenshot the table and one variable histogram and put it on this word document.)

**Picture Answer**

1. Also, get either the bar graph of each variable from the previous problem using the frequencies tab. I do not need the descriptive statistics for this section. (Get a screenshot of one of the variables and put it on this word document.)

**Picture Answer**

1. Reverse score the ffq\_sausage variable. To show that you did it correctly, get the frequencies of both the original variable and the new variable you created. (Get a screenshot the frequency tables and put it on this word document.)

**Picture Answer**

1. Dummy code the ccc\_class\_standing variable. Rename the variables in the Variable View to the names that correspond to the numbers. For example, 1 = Freshmen, 2 = Sophomore, 3 = Junior, 4 = Senior, 5 = Senior\_plus. (Get a screenshot of the variables in the data or variable view and put it on this word document.)

**Picture Answer**

1. Create a composite score of the variables that start with cpaq. There should be 4 questions. Then get the descriptive statistics and histogram for the new variable you created. (Screenshot the table and the histogram and put it on this word document.)

**Picture Answer**