

Project: Are These Pulse Rates Correct?

Name: _____

Data: [Pulse2625_15Sec.sav](#)

http://gchang.people.yzu.edu/stat/Pulse2625_15Sec.sav

(Use SPSS for calculations.)

Part I: Fast Pulse Rate Measurements:

Measure your pulse rate per 15 seconds and record it on the right: _____

Record the pulse rate per 15 seconds for the whole class: (Enter them into SPSS)

(If not able to get pulse rate data, use the Pulse2625_15Sec.sav data above.)

Find the **mean** of 15-second pulse rates for the class: _____

Find the **sample standard deviation** of 15-second pulse rates for the class: _____

Find the **sample variance** of 15-second pulse rates for the class: _____

Are pulse rates normally distributed? _____ p-value from normality test: _____

Part II: Regular Pulse Rate Measurements:

Measure your pulse rate per minute and record it on the right: _____

Record the pulse rate per minute for the whole class: (Enter them into SPSS)

(If not able to get pulse rate data, use the Pulse2625_15Sec.sav data above.)

Find the **mean** of one-minute pulse rates for the class: _____

Find the **sample standard deviation** of one-minute pulse rates for the class: _____

Find the **sample variance** of one-minute pulse rates for the class: _____

Are pulse rates normally distributed? _____ p-value from normality test: _____

Part III: Fast Pulse Rate Measurements:

Use SPSS Compute option to compute the pulse rate per minute for the whole class using 15-second pulse rate in Part I times 4. (In SPSS click on **Transform** and select **Compute** option. First specify the name of the variable for storing the result of the computation in the **Target variable** box. Then, in the **Numeric Expression** box, type in the computation formula for performing the actual computation. And, then click OK to actually perform the task.)

(If not able to get pulse rate data, use the Pulse2625_15Sec.sav data above.)

Find the **mean** of fast one-minute pulse rates for the class: _____

Find the **sample standard deviation** of fast one-minute pulse rates for the class: _____

Find the **sample variance** of fast one-minute pulse rates for the class: _____

Are pulse rates normally distributed? _____ p-value from normality test: _____

Part IV: Compare the results from Part II and Part III on sample means, sample standard deviations and sample variances comment on your findings.