

DEPARTMENT OF ECONOMETRICS, STATISTICS AND APPLIED ECONOMY

Business Administration and Management Degree

Statistics II. Computing Practice 2. Parametric and NonParametric Hypothesis Testing

Correction Date: 2018-05-24 22:00:37

Final Mark: 10 [10 available points]



Student's Information

Niub: 99999999

Alpha: 0.08

Class Group: 1

Workers Group: 1

Conditioning Gender: 0

Conditioning Qualification: 1

Group for comparison: 2

Mean for H1 in Point 08: 2277

Statement	S[*]	C[*]	M[*]
01.- [0.5 points]. Number of observations of Group G1	427	427	0.5
02.- [0.5 points]. Coefficient of Variation of Wage of Group G1	0.108	0.108	0.5
03.- [0.5 points]. Interquartile Range of Wage of Group G1/Gender=0	158.68	157.212	0.5
04.- [0.5 points]. Conditioned Median of Wage of G1/Qualified=1	2357	2356.965	0.5
05.- [0.5 points]. Pearson's coefficient of correlation between Age and Wage of Group G1	-0.213	-0.213	0.5
06.- [0.5 points]. Shapiro-Wilk's normality test in case of the Wage of G1	0.867	0.867	0.5
07.- [0.5 points]. Chi-Square Statistic to test independence between GENDER_G1 and QUALIFIED_G1	0.342	0.342	0.5
08.- [0.5 points]. If you do not reject the two-sided $H_0: \text{Mean}[\text{WAGE_G1}] = 2277$ enter 0. Otherwise enter 1	0	0	0.5
09.1.- [1 point]. Test statistic for two-sided test $H_0: \text{Mean}[\text{Wages}/\text{QUALIFIED}=0] - \text{Mean}[\text{Wages}/\text{QUALIFIED}=1] = 0$ in G1 (Unknown and Unequal vars)	-0.365	-0.365	1
09.2.- [1 point]. Do you reject the null hypothesis with $\alpha=0.08$? If do not reject enter 0, otherwise enter 1	0	0	1
10.1- [1 point]. Test statistic for two-sided test $H_0: \text{var}[\text{Wages}/\text{QUALIFIED}=0] / \text{var}[\text{Wages}/\text{QUALIFIED}=1] = 1$ in G1	0.883	0.883	1
10.2- [1 point]. Do you reject the null hypothesis with $\alpha=0.08$? If do not reject enter 0, otherwise enter 1	0	0	1
11.2- [1 point]. Test statistic for two-sided test $H_0: \text{Proportion}[\text{QUALIFIED_G1}] - \text{Proportion}[\text{QUALIFIED_G2}] = 0$	-2.475	-2.475	1
11.2- [1 point]. Do you reject the null hypothesis with $\alpha=0.08$? If do not reject enter 0, otherwise enter 1	1	1	1

[*] S indicates Student's Results, C Computed Results and M the Mark. A tolerance of +/- 5% has been applied.

State of the Practice: Final Mark [X] Checking []

Revision of the practice: Use teacher's visiting hours. Emails dealing with the practice won't be answered. Thank you.

R-Script by Jordi López-Tamayo, - march 2018 -