



SAS Certified Statistical Business Analyst Using SAS 9: Regression and Modeling Credential

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QUESTION 1

Given the following GLM procedure output:

Source	DF	Type III SS	Mean Square	F Value	Pr > F
School	3	17905.24929	5968.41643	4.14	0.0073
Gender	1	1578.63006	1578.63006	1.09	0.2971
School*Gender	3	17205.36689	5735.12230	3.97	0.0091

Which statement is correct at an alpha level of 0.05?

A. School*Gender should be removed because it is non-significant.

B. Gender should be removed because it is non-significant.

C. School should be removed because it is significant.

D. Gender should not be removed due to its involvement in the significant interaction.

Correct Answer: D

QUESTION 2

Refer to the exhibit.





Given alpha=0.02, which conclusion is justified regarding percentage of body fat, comparing small (S), medium (M), and large (L) wrist sizes?

- A. Medium wrist size is significantly different than small wrist size.
- B. Large wrist size is significantly different than medium wrist size.
- C. Large wrist size is significantly different than small wrist size.
- D. There is no significant difference due to wrist size.

Correct Answer: C

QUESTION 3

Which SAS program will best identify influential observations in a multiple regression application?



A. proc reg data = SASUSER.RETAIL; model Purchase = Gender Age Income / lackfit; run; В. proc reg data = SASUSER.RETAIL; model Purchase = Gender Age Income / vif; run; C. proc reg data = SASUSER.RETAIL plots(only) = (RSTUDENTBYPREDICTED); model Purchase = Gender Age Income; run; D. proc reg data = SASUSER.RETAIL plots(only)=(COOKSD); model Purchase = Gender Age Income; run; A. Option A B. Option B C. Option C D. Option D

Correct Answer: C

QUESTION 4

When working with smaller data sets (N |t| = 0.658) is removed from an existing multiple linear regression model. What will be the result?

- A. An increase in R-Square
- B. A decrease in R-Square
- C. A decrease in Mean Square Error
- D. No change in R-Square

Correct Answer: B

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