



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

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QUESTION 1

Refer to the exhibit:



Which statement is true, based on the plots above?

A. Approximately twice as many customers with the top ten percent of predicted probabilities are expected to have a positive versus negative event.

B. Approximately ten percent of a randomly selected subset of twenty percent of the customers are expected to have a positive event.

C. Approximately twenty percent of the customers with a predicted score of 3 have a positive predicted class.

D. Approximately ten percent of those customers with the top twenty percent of predicted probabilities are expected to have a positive event.

Correct Answer: A

QUESTION 2

PROC GLMSELECT was used for building a model predicting the natural log of a baseball player\\'s salary from certain performance and longevity statistics. The model used backward elimination using SBC as its selection criterion. The sequence of steps is summarized in the graphic shown below:





- At Step 9 number of at bats (nAtBat) was removed from the model. Why was it removed?
- A. Removing nAtBat had the largest effect on the parameter estimate of nHits.
- B. The p-Value for nAtBat was largest.
- C. Removing nAtBat yielded the largest improvement to SBC.
- D. The p-Value for nAtBat was smallest.

Correct Answer: B

QUESTION 3

The total modeling data has been split into training, validation, and test data. What is the best data to use for model assessment?

- A. Training data
- B. Total data
- C. Test data



D. Validation data

Correct Answer: D

QUESTION 4

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 5

Refer to the exhibit: Based upon the comparative ROC plot for two competing models, which is the champion model and why?





- A. Candidate 1, because the area outside the curve is greater
- B. Candidate 2, because the area under the curve is greater
- C. Candidate 1, because it is closer to the diagonal reference curve
- D. Candidate 2, because it shows less over fit than Candidate 1
- Correct Answer: B

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