



A00-240^{Q&As}

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

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QUESTION 1

One common approach for predicting rare events in the LOGISTIC procedure is to build a model that disproportionately over-re presents those cases with an event occurring (e.g. a 50-50 event/non-event split). What problem does this present?

- A. All parameter estimates are biased.
- B. Only the intercept estimate is biased.
- C. Only the non-intercept parameter estimates are biased.
- D. Sensitivity estimates are biased.

Correct Answer: B

QUESTION 2

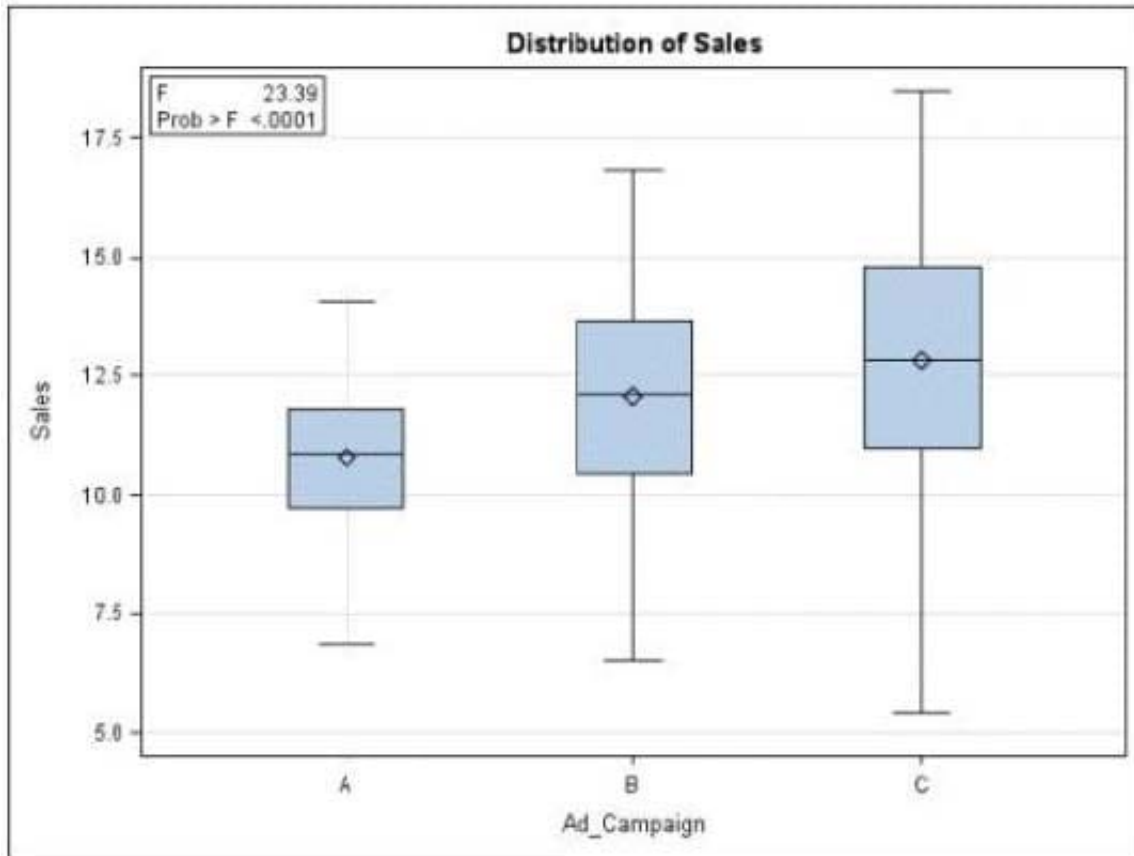
The total modeling data has been split into training, validation, and test data. What is the best data to use for model assessment?

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

Correct Answer: D

QUESTION 3

Refer to the exhibit:



The box plot was used to analyze daily sales data following three different ad campaigns. The business analyst concludes that one of the assumptions of ANOVA was violated.

Which assumption has been violated and why?

- A. Normality, because $Prob > F$
- B. Normality, because the interquartile ranges are different in different ad campaigns.
- C. Constant variance, because $Prob > F$
- D. Constant variance, because the interquartile ranges are different in different ad campaigns.

Correct Answer: D

QUESTION 4

This question will ask you to provide a missing option.

A business analyst is investigating the differences in sales figures across 8 sales regions. The analyst is interested in viewing the regression equation parameter estimates for each of the design variables.

Which option completes the program to produce the regression equation parameter estimates?



```
proc glm data=sales_spring;
  class region;
  model finalsales = region / <insert option here> ;
run;
quit;
```

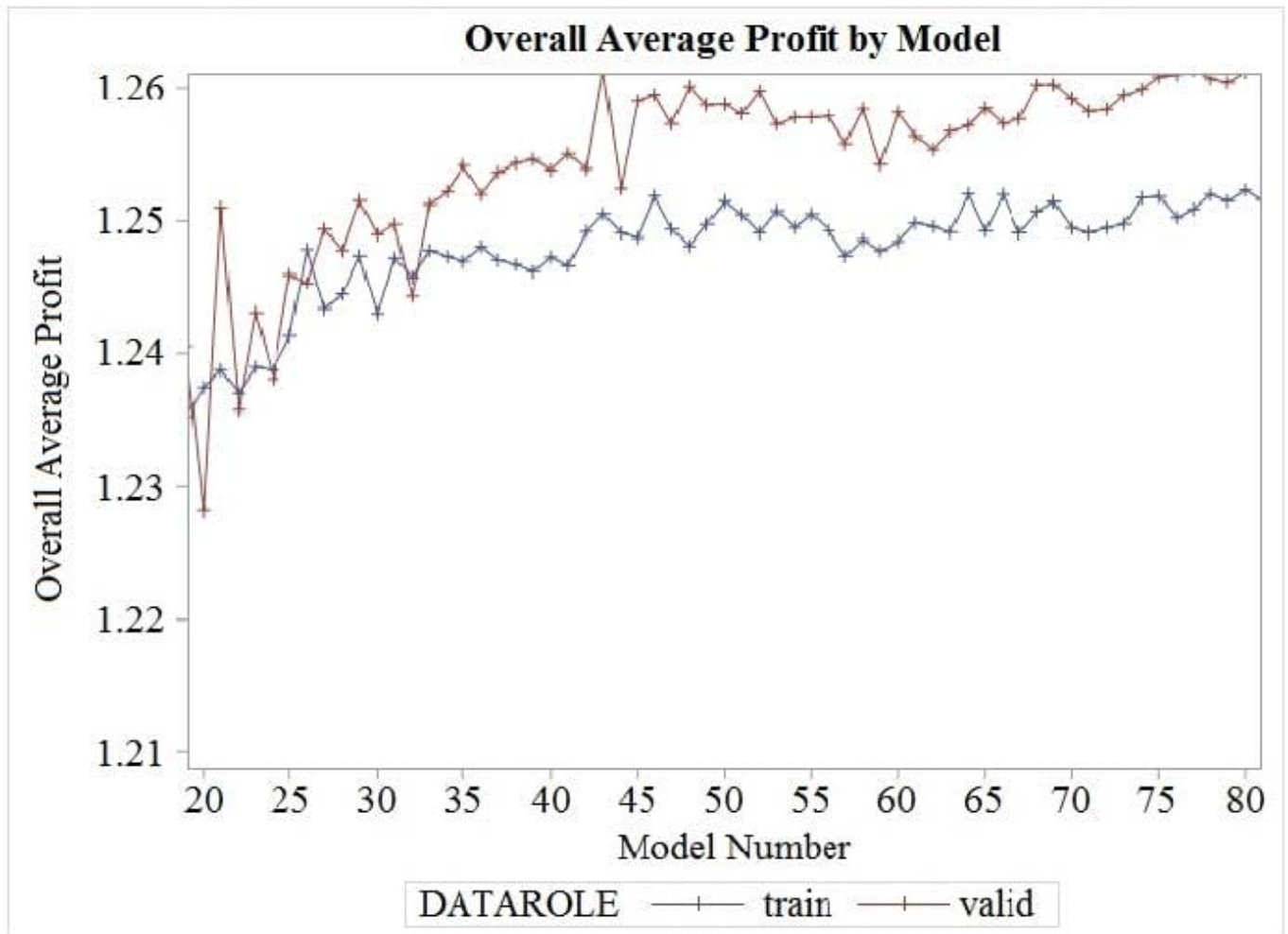
- A. Solve
- B. Estimate
- C. Solution
- D. Est

Correct Answer: C

Reference: https://documentation.sas.com/?docsetId=statuganddocsetTarget=statug_ods_examples06.htm&docsetVersion=14.3&locale=en

QUESTION 5

The PROC LOGISTIC options SELECTION=SCORE and BEST=2 are used in a MODEL statement to generate a series of predictive models. The models are assigned numbers in order from 1 to 99 reflecting the fact that there are 50 candidate input variables. Results from the collection of derived models are used to generate the following plot of overall average profit by model number. Results are restricted to models with at least 9 inputs and at most 40 inputs.



The maximum value for the training data occurs for model number 46, and the maximum value for the validation data occurs for model number 43. If you base model selection solely on overall average profit, what is the correct choice?

- A. Select model 46
- B. Select model 43
- C. Select model 45
- D. Select model 21

Correct Answer: B

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