A00-240^Q&As

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

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QUESTION 1

FILL BLANK

A linear model has the following characteristics:

1.

A dependent variable (y)

2.

One continuous variable (x1)

3.

One categorical (?1 with 3 levels) predictor variable and an interaction term (?1 by x1)

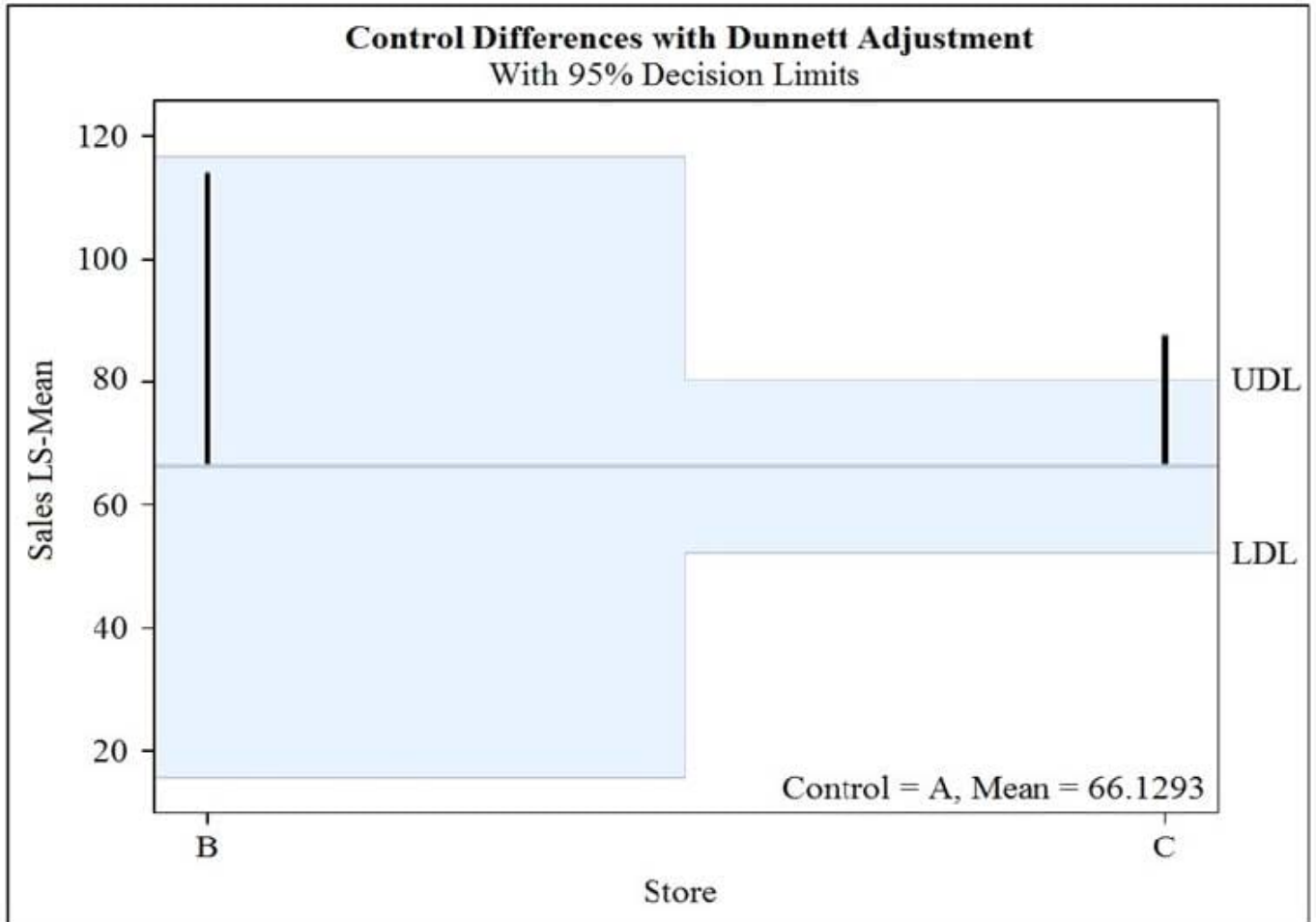How many parameters, including the intercept, will be estimated for this model?

Enter your numeric answer in the space below.

Correct Answer: 7

Section: (none)

QUESTION 2

Refer to the exhibit.

Control Differences with Dunnett Adjustment
With 95% Decision Limits

Control = A, Mean = 66.1293

Which conclusion is justified concerning Sales, comparing stores A, B, and C?

A. Store B is significantly different from store A.

B. Store C is significantly different from Store A.

C. Store B is significantly different from store C.

D. There is no significant difference between stores.

Correct Answer: A

QUESTION 3

The following LOGISTIC procedure output analyzes the relationship between a binary response and an ordinal predictor variable, wrist_size Using reference cell coding, the analyst selects Large (L) as the reference level.

Analysis of Maximum Likelihood Estimates

Parameter		DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept		1	-1.0415	0.4749	4.8101	0.0283
wrist_size	M	1	1.1234	0.4989	5.0697	0.0243
wrist_size	S	1	1.6078	0.5478	8.6133	0.0033

What is the estimated logit for a person with large wrist size?

Click the calculator button to display a calculator if needed.

A. 0.0819

B. 0.5663

C. -3.7727

D. -1.0415

Correct Answer: D

QUESTION 4

The selection criterion used in the forward selection method in the REG procedure is:

A. Adjusted R-Square

B. SLE

C. Mallows\\' Cp

D. AIC

Correct Answer: B

QUESTION 5

This question will ask you to provide a missing option.

Complete the following syntax to test the homogeneity of variance assumption in the GLM procedure:

means Region / =levene ;

A. test

B. adjust
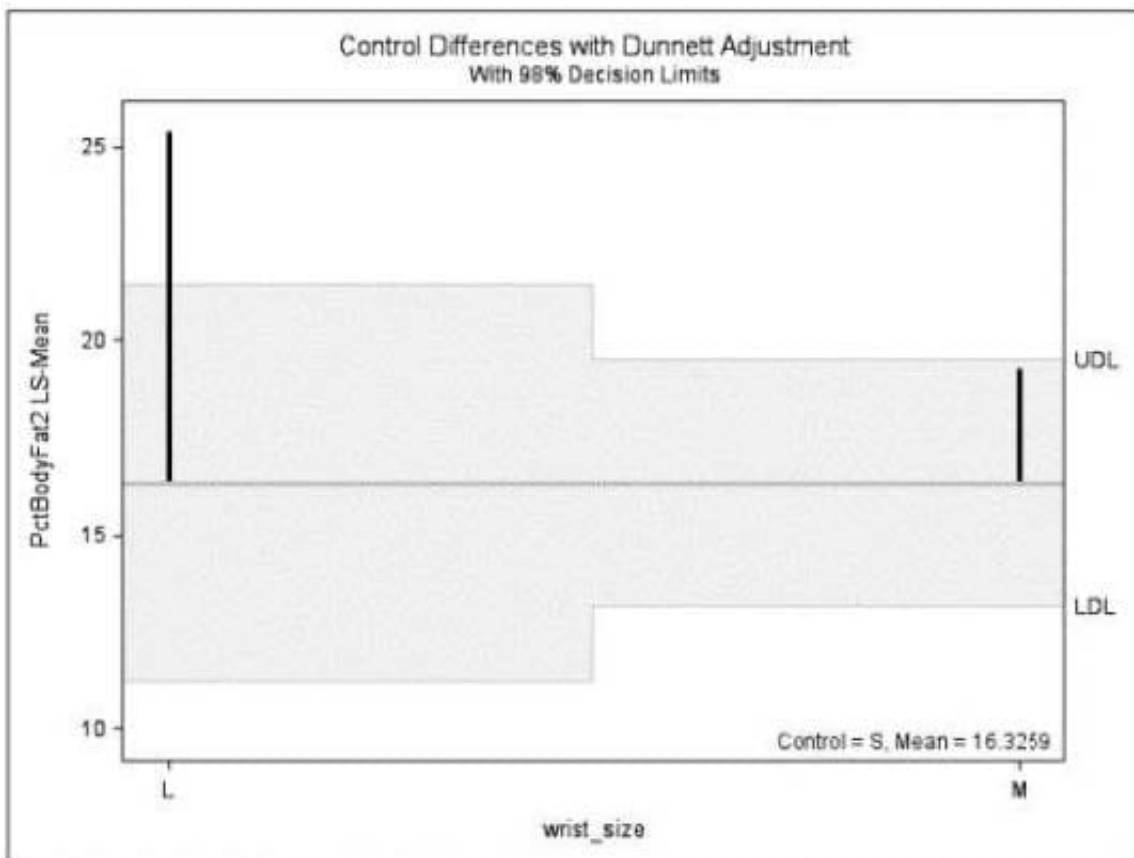
C. var

D. hovtest

Correct Answer: D

QUESTION 6

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?
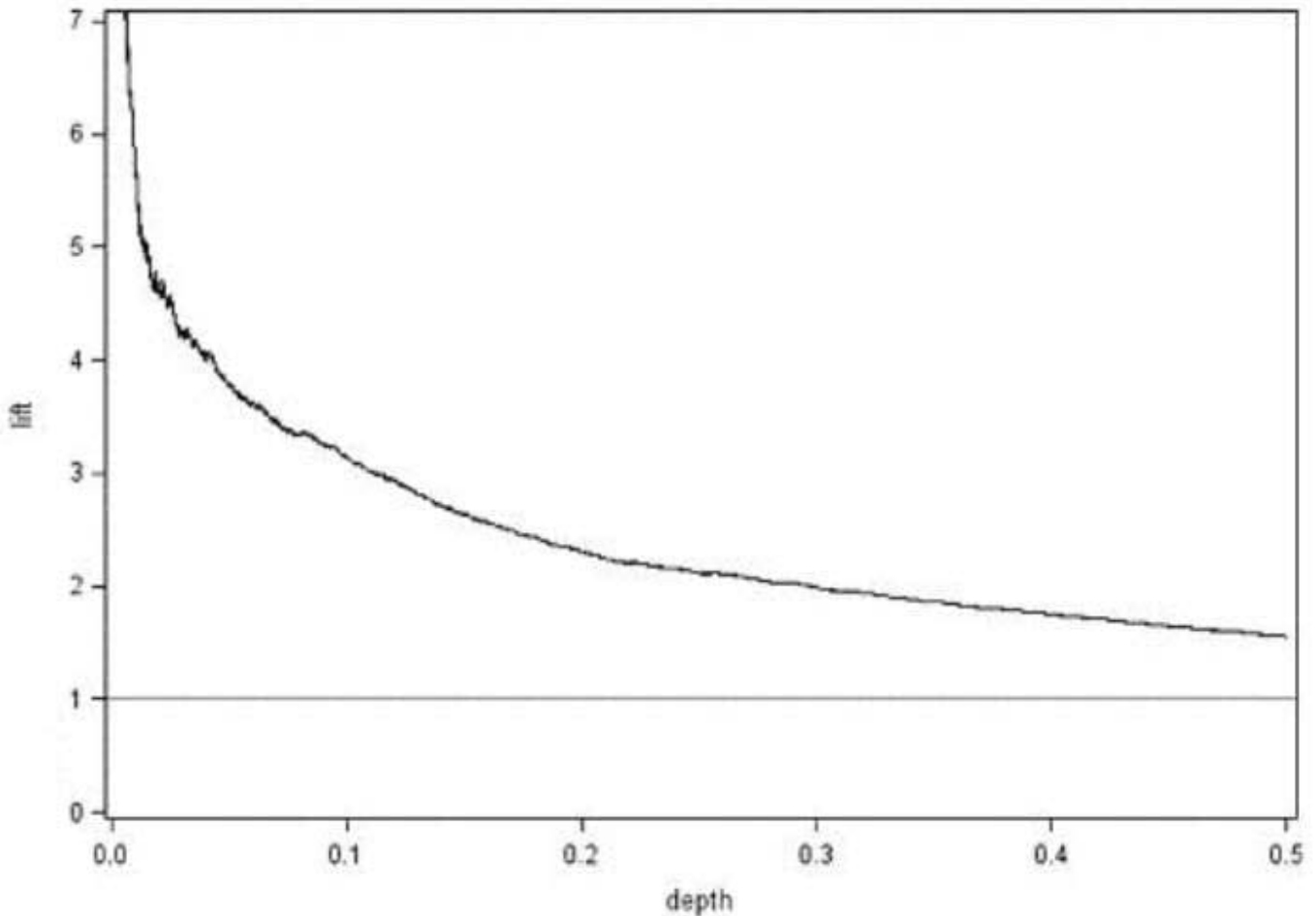
A. Medium wrist size is significantly different than small wrist size.

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 7

Refer to the lift chart:

At a depth of 0.1, Lift = 3.14. What does this mean?

A. Selecting the top 10% of the population scored by the model should result in 3.14 times more events than a random draw of 10%.

B. Selecting the observations with a response probability of at least 10% should result in 3.14 times more events than a random draw of 10%.

C. Selecting the top 10% of the population scored by the model should result in 3.14 times greater accuracy than a random draw of 10%.

D. Selecting the observations with a response probability of at least 10% should result in 3.14 times greater accuracy than a random draw of 10%.

Correct Answer: A

QUESTION 8

There are missing values in the input variables for a regression application.

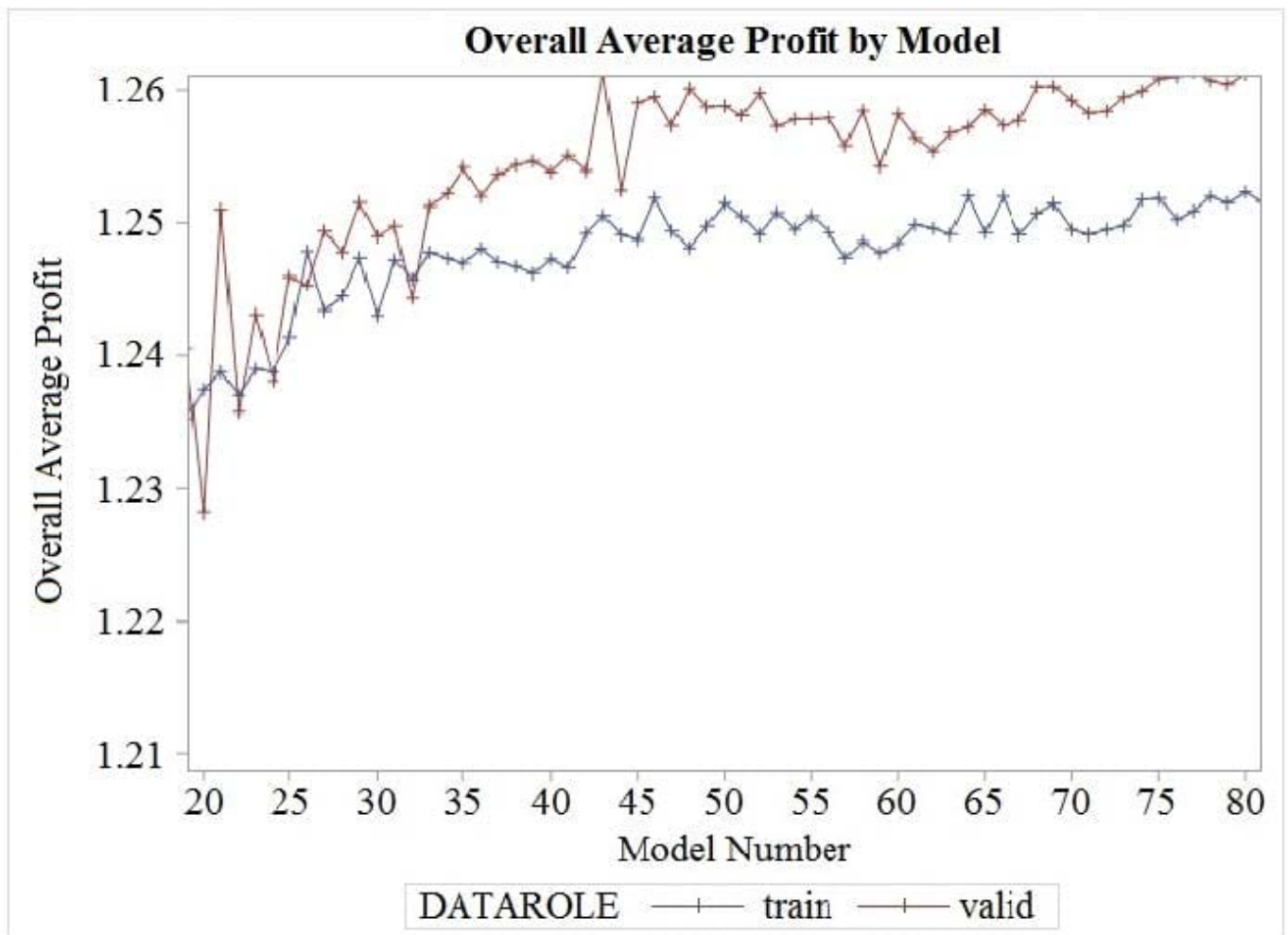Which SAS procedure provides a viable solution?

A. GLM

B. VARCLUS

C. STDI2E

D. CLUSTER

Correct Answer: C

QUESTION 9

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

QUESTION 10

An analyst knows that the categorical predictor, zip_code, is an important predictor of a binary target. However, zip_code has too many levels to be a feasible predictor in a model. The analyst uses PROC CLUSTER to implement Greenacre\\'s method to reduce the number of categorical levels.

What is the correct application of Greenacre\\'s method in this situation?

A. Clustering the levels using the target proportion for each zip_code as input.

B. Clustering the levels using the zip_code values as input.

C. Clustering the levels using the number of cases in each zip_code as input.

D. Clustering the levels using dummy coded zip_code levels as inputs.

Correct Answer: A

Reference: https://support.sas.com/resources/papers/proceedings/proceedings/sugi31/079-31.pdf

QUESTION 11

Which SAS program will correctly use backward elimination selection criterion within the REG procedure?

```
C  A.  proc reg data=SASUSER.MLR;
          model y = x1-x10 /selection=backward sls=aic;
       run;


C  B.  proc reg data=SASUSER.MLR;
          model y = x1-x10 /selection=backward sls=0.15;
       run;


C  C.  proc reg data=SASUSER.MLR;
          model y = x1-x10 /selection=backward sle=cp;
       run;


C  D.  proc reg data=SASUSER.MLR;
          model y = x1-x10 /selection=backward sle=all;
       run;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 12

Identify the correct SAS program for fitting a multiple linear regression model with dependent variable (y) and four predictor variables (x1-x4).

```
A.  proc reg data=SASUSER.MLR;
        var y x1 x2 x3 x4;
        model y = x1-x4;
    run;
```

```
B.  proc reg data=SASUSER.MLR;
        model y = x1-x4;
    run;
```

```
C.  proc reg data=SASUSER.MLR;
        model y = x1;
        model y = x2;
        model y = x3;
        model y = x4;
    run;
```

```
D.  proc reg data=SASUSER.MLR;
        model y = x1 x2 x3 x4 /solution;
    run;
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 13

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 14

The selection criterion used in the forward selection method in the GLMSELECT procedure is:

A. RSQ

B. MSE

C. R-squared

D. AIC

Correct Answer: D

QUESTION 15

A non-contributing predictor variable (Pr > |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