A00-240Q&As

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

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QUESTION 1

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Refer to the REG procedure output:

Analysis of Variance

Source	DF	Sun of Squares	Mean Square	F Value	Pr > F
Model	3	33033	11011	115.63	<.0001
Error	496	47231	95.22454		
Corrected Total	499	80265			

Calculate the coefficient of determination, R-Square.

Enter your numeric answer in the space below. Round to 4 decimal places (example: n.nnnn).

Correct Answer: 0.5671

Section: (none)

QUESTION 2

Refer to the REG procedure output:

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	31848	15924	13.42	<.0001
Error	97	115082	1186.40833		
Corrected Total	99	146930			

Root MSE	34.44428	R-Square	0.2168
Dependent Mean	606.38715	Adj R-Sq	0.2006
Coeff Var	5.68025		

An analyst has selected this model as a champion because it shows better model fit than a competing model with more predictors. Which statistic justifies this rationale?

A. R-Square

B. Coeff Var

C. Adj R-Sq

D. Error DF

Correct Answer: C

QUESTION 3

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 4

Refer to the following odds ratio table:

Odds Ratio Estimates and Profile-Likelihood Confidence Intervals

Effect	Unit	Estimate	95% Confidence Limits	
salary	1.0000	1.142	1.083	1.220

What is a correct interpretation of the estimate?

A. The odds of the event are 1.142 greater for each one dollar increase in salary.

B. The odds of the event are 1.142 greater for each one thousand dollar increase in salary.

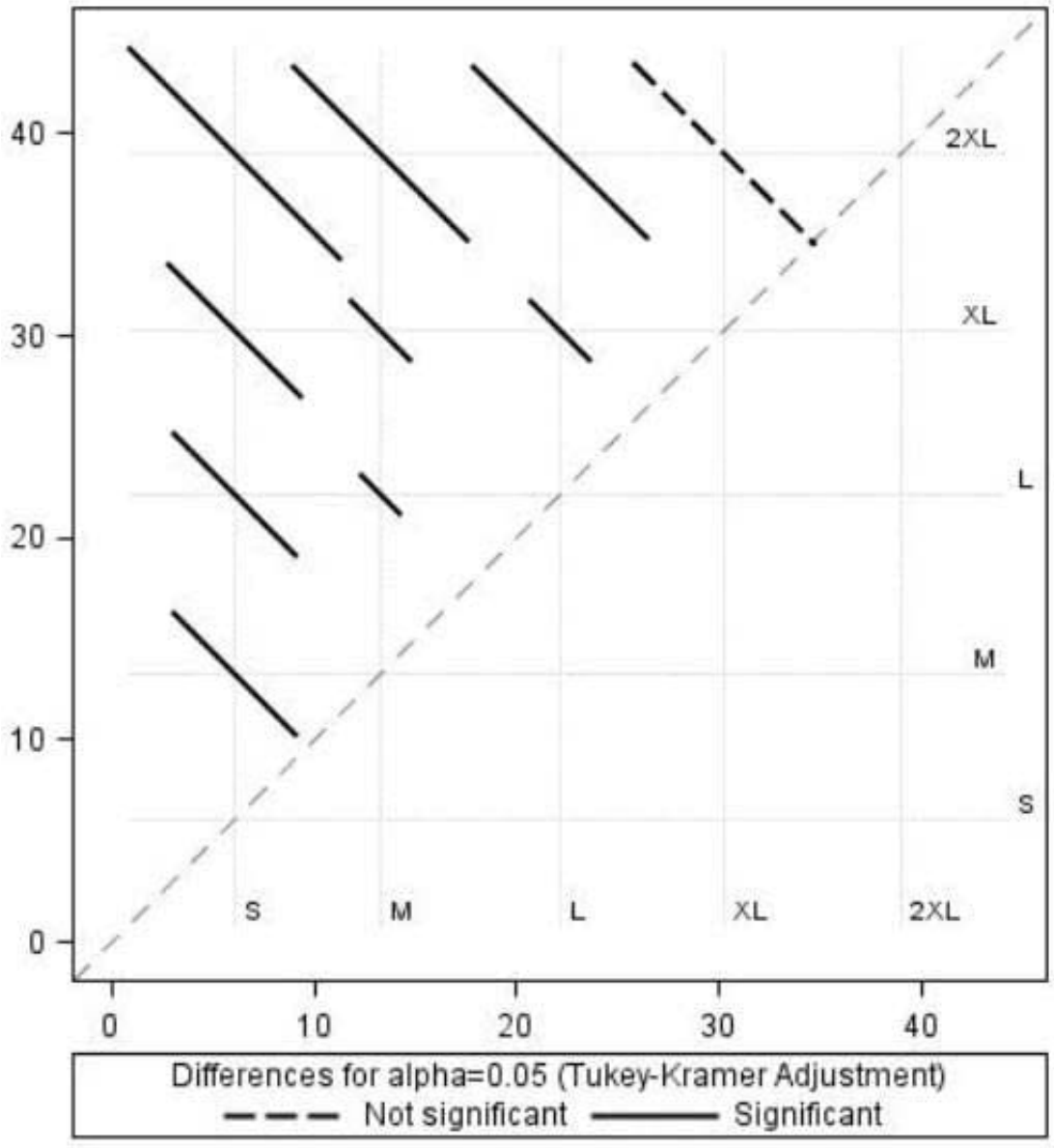
C. The probability of the event is 1.142 greater for each one dollar increase in salary.

D. The probability of the event is 1.142 greater for each one thousand dollar increase in salary.

Correct Answer: B

QUESTION 5

Refer to the exhibit.



Based on the control plot, which conclusion is justified regarding the means of the response?

A. All groups are significantly different from each other.

B. 2XL is significantly different from all other groups.

C. Only XL and 2XL are not significantly different from each other.

D. No groups are significantly different from each other.

Correct Answer: C