

A00-240^{Q&As}

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

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QUESTION 1

The Model SS in a multiple linear regression model is equal to:

- A. the total SS- MSE
- B. the sum of Type I SS of all model terms
- C. the sum of Type II SS of all model terms
- D. the sum of SSE and MSE

Correct Answer: B

Reference: <http://core.ecu.edu/psyc/wuenschk/SAS/SS1234.pdf>

QUESTION 2

Refer to the REG procedure output:

<i>Parameter Estimates</i>						
<i>Variable</i>	<i>DF</i>	<i>Parameter Estimate</i>	<i>Standard Error</i>	<i>t Value</i>	<i>Pr > t </i>	<i>Standardized Estimate</i>
<i>Intercept</i>	1	618.44051	40.03665	15.45	<.0001	0
<i>overhead</i>	1	4.99845	0.00157	3181.24	<.0001	0.99993
<i>scrap</i>	1	2.02667	0.71501	3.95	<.0001	0.00124
<i>training</i>	1	-50.95436	2.82069	-18.06	<.0001	-0.00568

The Intercept estimate is interpreted as:

- A. The predicted value of the response when all the predictors are at their current values.
- B. The predicted value of the response when all predictors are at their means.
- C. The predicted value of the response when all predictors = 0.
- D. The predicted value of the response when all predictors are at their minimum values.

Correct Answer: C

QUESTION 3

Customers were surveyed to assess their intent to purchase a product. An analyst divided the customers into groups

defined by the company's pre-assigned market segments and tested for difference in the customers' average intent to purchase. The following is the output from the GLM procedure:

<i>Source</i>	<i>DF</i>	<i>Sum of Squares</i>	<i>Mean Square</i>	<i>F Value</i>	<i>Pr > F</i>
<i>Model</i>	7	15716.87902	2245.26843	64.98	<.0001
<i>Error</i>	146	5044.56579	34.55182		
<i>Corrected Total</i>	153	20761.44481			

What percentage of customers' intent to purchase is explained by market segment? Click the calculator button to display a calculator if needed.

A.