

## A00-240<sup>Q&As</sup>

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:

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

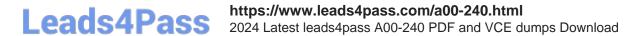
The Intercept estimate is interpreted as:

- 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:

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