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# SAS Institute

A00-274

*SAS Certified Visual Modeling Using SAS Visual Statistics 8.4*

## Questions & Answers PDF

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## Question: 1

You would like to compare multiple models that you've built in SAS Visual Statistics. Which parameters must be the same for all models being compared?

(choose 3)

Response:

- A. Data Source
- B. Assessment Bins
- C. Model Type
- D. Event Level
- E. Response Variable
- F. Link Function

**Answer: A,D,E**

## Question: 2

Your company has a dataset that represents global sales. You are a part of a team of analysts that each have responsibility for a certain region of the world. You decide to create a data source filter to suppress every region but yours.

What effect will this have on any new explorations that your teammates create?

Response:

- A. It will delete all observations that do not match your region.
- B. It will have no effect on any observations in the dataset.
- C. It will suppress all observations that do not match your region.
- D. It will suppress all observations that do not match their corresponding region.

**Answer: B**

## Question: 3

Refer to the exhibit:



Which is the modeling approach that should be used when fitting the Target Gift Amount variable?  
Response:

- A. Linear regression model with Interaction effects.
- B. Generalized linear model with a Poisson distribution and Identity link.
- C. Generalized linear model with a Normal distribution and Log Link.
- D. Logistic regression model.

**Answer: C**

## Question: 4

Refer to the exhibit from a linear regression model in SAS Visual Statistics.

Dimensions	Overall ANOVA	Fit Statistics	Parameter Estimates	Type III Test	Assessment	Assessment Statistics
Parameter			Estimate	Standard Error	t Value	Pr >  t
Intercept			102.9345	12.40326	8.298987	<0.00001
Age			-0.22697	0.099837	-2.27343	0.03224
MaxPulse			0.303217	0.136495	2.221449	0.03601
RestPulse			-0.02153	0.066054	-0.326	0.74725
RunPulse			-0.36963	0.119853	-3.08401	0.00508
RunTime			-2.62865	0.384562	-6.83544	<0.00001
Weight			-0.07418	0.054593	-1.35873	0.18687

Based on the table above and assuming a significance level of 0.05, what can be concluded about the linear regression model?

Response:

- A. The Intercept is an important predictor of the response.
- B. RestPulse is a significant predictor of the response.
- C. For one one-unit increase in RunTime, there is an expected increase in the response of 2.6287.
- D. For a .03696 unit decrease in RunPulse, there is an expected one-unit increase in the response.

**Answer: C**

### Question: 5

In the below nonparametric logistic regression results display, where would you click to get a plot of significant continuous effects?



Solution:



Determine whether the given solution is correct?

Response:

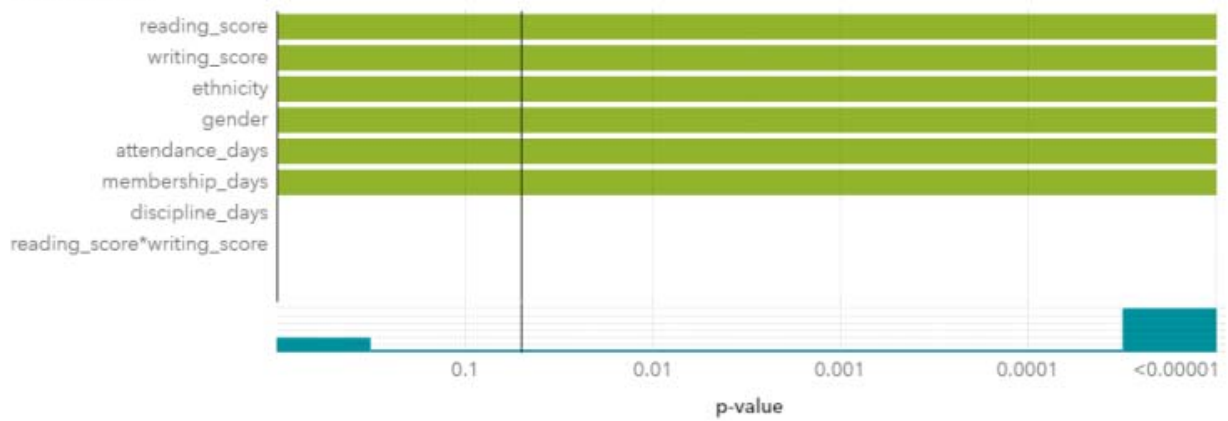
- A. Correct
- B. Incorrect

**Answer: A**

## Question: 6

Refer to the exhibit:

### Fit Summary



Fit Statistics	
Description	Value
Number of Model Effects	9
Number of Classification Effects	2
Number of Columns in X	14
Rank of Cross-product Matrix	10
Number of Observations Read	40,087
Number of Observations Used	8,826

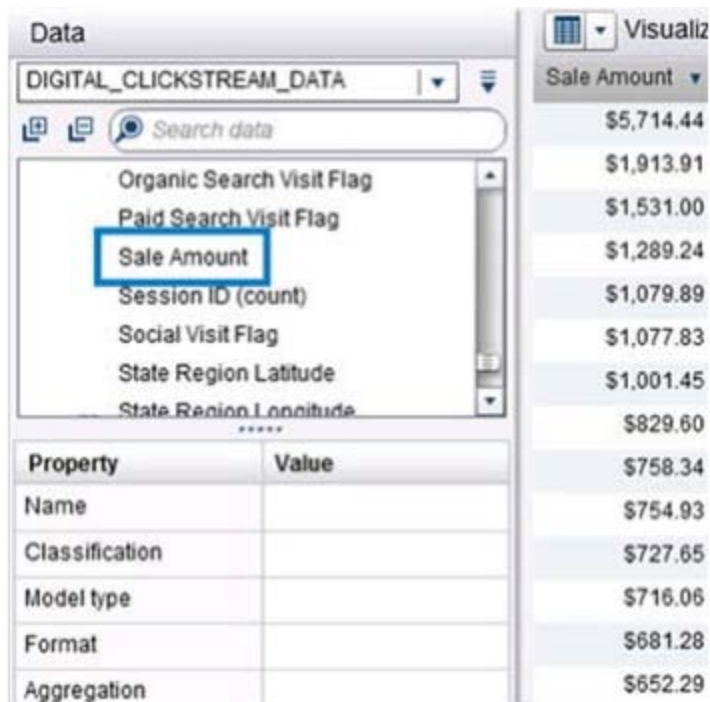
Which option was not specified in creating the linear regression model using SAS Visual Statistics?  
Response:

- A. interaction term
- B. group-by variable
- C. variable selection
- D. continuous effects

**Answer: B**

### Question: 7

Refer to the exhibit:



Prior to performing a decision tree analysis, you need to assess the default Values of Classification and Model Type Properties for Sale Amount. The variable represents product purchase amounts from an organization's e-commerce website.

How do you want the decision tree algorithm to treat this variable?

Response:

- A. Classification = Measure & Model Type = Continuous
- B. Classification = Category & Model Type = Discrete
- C. Classification = Measure & Model Type = Discrete
- D. Classification = Category & Model Type = Continuous

**Answer: A**

## Question: 8

Which equation does NOT represent a linear model?

Note:  $b_i$  are parameters and  $X_i$  are variables.

Response:

- A.  $y = b_0 + b_1X_1 + b_2X_2$
- B.  $y = b_0 + b_1X_1 + b_2X_2 + b_3(X_1X_2)$
- C.  $y = b_0 + b_1X_1 + (b_2/b_1)X_2$
- D.  $y = b_0 + b_1X_1 + b_2X_1^3$

**Answer: C**







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