



A00-240^{Q&As}

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

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QUESTION 1

FILL BLANK

Refer to the REG procedure output:

Analysis of Variance

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

Calculate the coefficient of determination, R-Square.

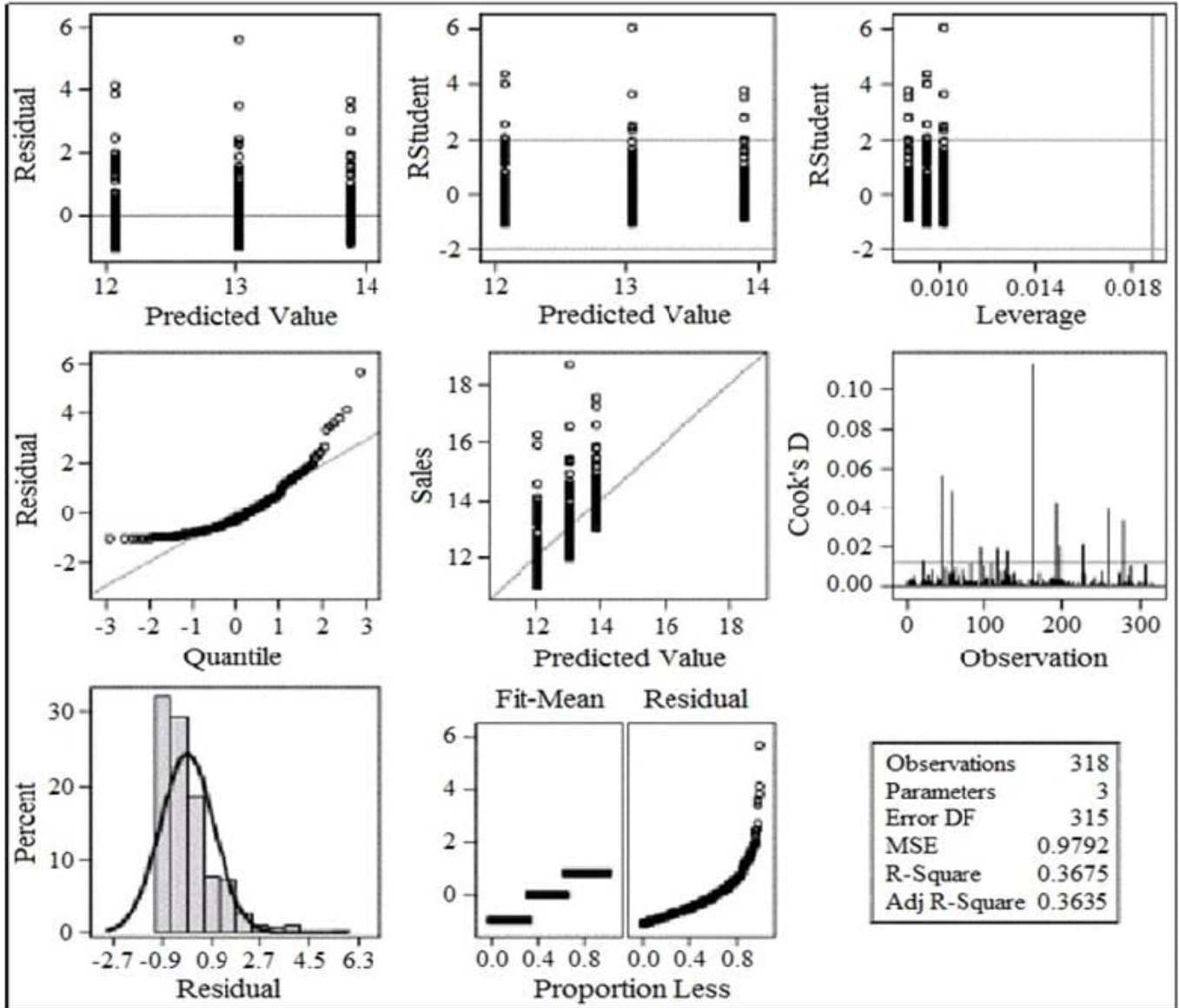
Enter your numeric answer in the space below. Round to 4 decimal places (example: n.nnnn).

Correct Answer: 0.5671

Section: (none)

QUESTION 2

Refer to the exhibit.



These graphs were created using the GLM procedure with the plots(only)=diagnostics option.

Which plot do you use to identify influential observations?

- A. Cook's D by Observation
- B. Residual by Quantile
- C. Residual by Predicted
- D. Fit - Mean and Residual Plot

Correct Answer: A

Reference: <https://books.google.com.pk/books?id=fx77Pzerty8Candpg=PA279andlpg=PA279anddq=sas+statistical+analysis+plot+do+you+use+to+identify+influential+observationsandsource=blandsig=ACfU3U0jbAa6lTWvSeSJ6y5bwp4osAyigAandhl=enandsa=Xandved=2ahUKEwje34nyqajnAhXDThUIHUfUCj0Q6AEwEXoECAoQAQ#v=onepageandq=sas%20statistical%20analysis%20plot%20do%20you%20use%20to%20identify%20influential%20observationsandf=false>



QUESTION 3

The standard form of a linear regression model is:

$$Y = \beta_0 + \beta_1 X + \varepsilon$$

Which statement best summarizes the assumptions placed on the errors?

- A. The errors are correlated, normally distributed with constant mean and zero variance.
- B. The errors are correlated, normally distributed with zero mean and constant variance.
- C. The errors are independent, normally distributed with constant mean and zero variance.
- D. The errors are independent, normally distributed with zero mean and constant variance.

Correct Answer: D

QUESTION 4

The total modeling data has been split into training, validation, and test data. What is the best data to use for model assessment?

- A. Training data
- B. Total data
- C. Test data
- D. Validation data

Correct Answer: D

QUESTION 5

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>



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