LSSMBB Q&As

Lean Six Sigma Master Black Belt

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QUESTION 1

Which of the following statements is NOT true regarding the Simple Regression formula?

A. Y = the response variable

B. X = the input variable

C. 1 is the intercept

D. 0 and 1 are the model coefficients to be estimated in the data

Correct Answer: C

QUESTION 2

"A calculated time frame that matches customer demand" is a definition of what Lean Principles term?

A. Value Stream

B. Kaizen event

C. Takt time

D. Kanban

Correct Answer: C

QUESTION 3

In a regression analysis, model assumptions are validated using which of the following?

A. The ANOVA table

B. A plot of X versus predicted/fitted Y

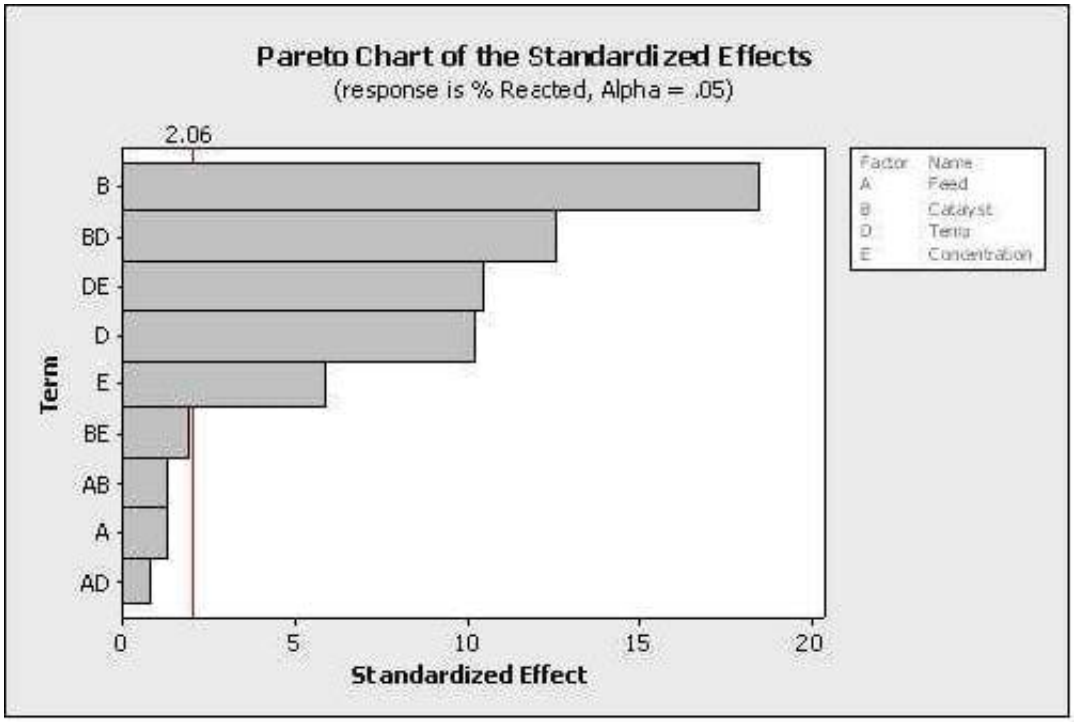
C. Chi-square statistic

D. Residual diagnostics

Correct Answer: D

QUESTION 4

Which statement(s) are correct about the Pareto Chart shown here for the DOE analysis? (Note: There are 2 correct answers).



A. It is unknown from this graph how many factors were in the Experimental Design

B. The factors to keep in the mathematical model are E, D, DE, BD and B with an alpha risk equal to 2.06

C. The effects to keep in the mathematical model are E, D, DE, BD and B with an alpha risk equal to 0.05

D. The factors to keep in the mathematical model with a 5% alpha risk are BE, AB, A and AD

Correct Answer: AC

QUESTION 5

Which statement(s) are incorrect for the Regression Analysis shown here? (Note: There are 2 correct answers).

Regression Analysis: Turbine Output versus Air-Fuel Ratio, % steam, ...

The Regression Equation is

TurbineOutput = 16.5 + 3.21 Air-Fuel Ratio + 0.386 % methane
+ 0.0166 SteamExitTemp

Predictor	Coef	SE Coef	T	P
Constant	16.488	2.918	5.65	0.000
Air-Fuel Ratio	3.2148	0.2377	13.52	0.000
% methane	0.38637	0.07278	5.31	0.000
SteamExitTemp	0.016576	0.004273	3.88	0.004

S = 0.508616 R-Sq = 98.6% R-Sq(adj) = 98.2%

Analysis of Variance

Source	DF	SS	MS	F	P
Regression	3	170.003	56.668	219.06	0.000
Residual Error	9	2.328	0.259		
Total	12	172.331			

Source	DF	Seq SS
Air-Fuel Ratio	1	159.048
% methane	1	7.062
SteamExitTemp	1	3.892

A. The air-fuel ratio explains most of the TurbineOutput variation

B. The Regression explains over 98% of the process variation

C. This Multiple Linear Regression has three statistically significant independent variables

D. If the air-fuel ratio increases by 1, the TurbineOutput more than triples

E. The SteamExitTemp explains the most variation of the TurbineOutput

Correct Answer: DE