Jian		Thursday, 10 August 2017, 3:41 AM										
	State	Finished										
		Thursday, 10 August 2017, 4:19 AM										
Time	taken	37 mins 59 secs										
	Grade	54.00 out of 68.00 (79 %)										
Question 1 Correct Mark 8.00 out of 3.00	1. 2. 3. 4. Your The Supp	posing you have just opened Excel and the Analysis Toolpak has been enabled. What are the series of steps that you need to do in order to perform elation in your data? Note that verbs such as Go/Click has been explicitly removed and are implied. Data Analysis Data Analysis Correlation Tanswer is correct. Correct answer is: posing you have just opened Excel and the Analysis Toolpak has been enabled. What are the series of steps that you need to do in order to perform the performental smoothing and to performelation in your data? Note that verbs such as Go/Click has been explicitly removed and are implied.	alysis									
Question 2	2. 3. 4.	[Data] tab [Analysis] group [Data Analysis] [Correlation] posing you have just opened Excel and the Analysis Toolpak has been enabled. What are the series of steps that you need to do in order to perform										
Partially correct Mark 4.00 out of 8.00	1. 2. 3. 4.	elation in your data? Note that verbs such as Go/Click has been explicitly removed and are implied.										
	Data Analysis											
		Data Analysis										
		Correlation										
		answer is partially correct.										
	The Sup	have correctly selected 2. correct answer is: posing you have just opened Excel and the Analysis Toolpak has been enabled. What are the series of steps that you need to do in order to perform elation in your data? Note that verbs such as Go/Click has been explicitly removed and are implied.	nalys									
	2. 3.	[Data] tab [Analysis] group [Data Analysis] [Regression]										

Question 3 Correct	Supposing you have just opened Excel however, Analysis Toolpak was not enabled. What are the sequence of steps that you need to do in order to enable it. The verbs go/click are implied in the steps.
Mark 8.00 out of .00	1
	2. Account Options Go Trust Center File Add-ins 3. 4. 5. Analysis Toolpak 6. OK
	Your answer is correct. The correct answer is: Supposing you have just opened Excel however, Analysis Toolpak was not enabled. What are the sequence of steps that you need to do in order to enablit. The verbs go/click are implied in the steps.
	1. [File] 2. [Options] 3. [Add-ins] 4. [Go] 5. Analysis Toolpak 6. OK
	у
Question 4 Correct Mark 4.00 out of 4.00	In the general formula of the line: y = mx + b, which of these variables are independent, dependent, slope and intercept? Drag and drop the variables to their corresponding type Independent: Dependent: Slope: Intercept:
	Your answer is correct. The correct answer is: In the general formula of the line: y = mx + b, which of these variables are independent, dependent, slope and intercept? Drag and drop the variables to their corresponding type Independent: [x]
	Dependent: [y] Slope: [m] Intercept: [b]

Question 5
Correct

Mark 3.00 out of 3.00

Which of the following linear regression model should you adopt based on the summary output for regression of Excel?

Select one:

	, · ·		_		_		_	***	-
1	SUMMARY OUTPUT								
2									
3	Regression St	Regression Statistics							
4	Multiple R	0.781644427							
5	R Square	0.61096801							
6	Adjusted R Square	0.608686298							
7	Standard Error	10.45024962							
8	Observations	1030							
9									
10	ANOVA								
11		df	SS	MS	F	Significance F			
2	Regression	6	175453.5338	29242.26	267.7673008	9.3284E-206	i		
3	Residual	1023	111719.4946	109.2077					
4	Total	1029	287173.0285						
5									
6		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
7	Intercept	36.95530188	17.82991024	2.072658	0.038454123	1.967925409	71.94267834	1.967925409	71.94267834
8	Cement	0.109944887	0.004020951	27.34301	5.2033E-124	0.102054634	0.117835141	0.102054634	0.117835141
9	Blast Furnace Slag	0.092282466	0.004582069	20.13991	3.02922E-76	0.083291138	0.101273794	0.083291138	0.101273794
20	Fly Ash	0.079506045	0.006790227	11.70889	8.31472E-30	0.06618168	0.092830411	0.06618168	0.092830411
21	Water	-0.278176779	0.190813409	-1.45785	0.145189597	-0.652607189	0.09625363	-0.652607189	0.09625363
22	Water^2	6.37985E-05	0.000522582	0.122083	0.902857025	-0.000961656	0.001089253	-0.000961656	0.001089253
23	Age	0.113827819	0.005639783	20.18301	1.62401E-76	0.102760953	0.124894684	0.102760953	0.124894684
24									
	Α	В	С	D	Е	F	G H	T	
-	A	D		U	L	1	0 11	1	

	А	В	С	D	Е	F	G	Н	I
1	SUMMARY OUTPUT								
2									
3	Regression St	atistics							
4	Multiple R	0.781640801							
5	R Square	0.610962342							
6	Adjusted R Square	0.609062745							
7	Standard Error	10.4452218							
8	Observations	1030							
9									
10	ANOVA								
11		df	SS	MS	F	gnificance	F		
12	Regression	5	175451.9062	35090.38	321.6272	5E-207			
13	Residual	1024	111721.1223	109.1027					
14	Total	1029	287173.0285						
15									
16		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	ower 95.0%	lpper 95.0%
17	Intercept	34.82578843	3.691909573	9.433001	2.58E-20	27.58122	42.07036	27.58122	42.07036
18	Cement	0.110045387	0.003933888	27.9737	2.2E-128	0.102326	0.117765	0.102326	0.117765
19	Blast Furnace Slag	0.09235939	0.004536356	20.35982	1.22E-77	0.083458	0.101261	0.083458	0.101261
20	Fly Ash	0.079615802	0.00672721	11.83489	2.22E-30	0.066415	0.092816	0.066415	0.092816
21	Water	-0.254971412	0.016726779	-15.2433	1.94E-47	-0.28779	-0.22215	-0.28779	-0.22215
22	Age	0.114015766	0.005422987	21.02453	7.32E-82	0.103374	0.124657	0.103374	0.124657
23									

Your answer is correct.

b.

4	Α	В	C	D	E	F	G	Н	I
1	SUMMARY OUTPUT								
2									
3	Regression St	atistics							
4	Multiple R	0.781640801							
5	R Square	0.610962342							
6	Adjusted R Square	0.609062745							
7	Standard Error	10.4452218							
8	Observations	1030							
9									
10	ANOVA								
11		df	SS	MS	F	gnificance	F		
12	Regression	5	175451.9062	35090.38	321.6272	5E-207			
13	Residual	1024	111721.1223	109.1027					
14	Total	1029	287173.0285						
15									
16		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	ower 95.0%	lpper 95.0%
17	Intercept	34.82578843	3.691909573	9.433001	2.58E-20	27.58122	42.07036	27.58122	42.07036
18	Cement	0.110045387	0.003933888	27.9737	2.2E-128	0.102326	0.117765	0.102326	0.117765
19	Blast Furnace Slag	0.09235939	0.004536356	20.35982	1.22E-77	0.083458	0.101261	0.083458	0.101261
20	Fly Ash	0.079615802	0.00672721	11.83489	2.22E-30	0.066415	0.092816	0.066415	0.092816
21	Water	-0.254971412	0.016726779	-15.2433	1.94E-47	-0.28779	-0.22215	-0.28779	-0.22215
22	Age	0.114015766	0.005422987	21.02453	7.32E-82	0.103374	0.124657	0.103374	0.124657

Question 6 Correct

Mark 4.00 out of 4.00

	Α	В	С	D	E	F	G	Н	I
1	SUMMARY OUTPUT								
2									
3	Regression St	atistics							
4	Multiple R	0.781640801							
5	R Square	0.610962342							
6	Adjusted R Square	0.609062745							
7	Standard Error	10.4452218							
8	Observations	1030							
9									
10	ANOVA								
11		df	SS	MS	F	gnificance	F		
12	Regression	5	175451.9062	35090.38	321.6272	5E-207			
13	Residual	1024	111721.1223	109.1027					
14	Total	1029	287173.0285						
15									
16		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	ower 95.0%	pper 95.0%
17	Intercept	34.82578843	3.691909573	9.433001	2.58E-20	27.58122	42.07036	27.58122	42.07036
18	Cement	0.110045387	0.003933888	27.9737	2.2E-128	0.102326	0.117765	0.102326	0.117765
19	Blast Furnace Slag	0.09235939	0.004536356	20.35982	1.22E-77	0.083458	0.101261	0.083458	0.101261
20	Fly Ash	0.079615802	0.00672721	11.83489	2.22E-30	0.066415	0.092816	0.066415	0.092816
21	Water	-0.254971412	0.016726779	-15.2433	1.94E-47	-0.28779	-0.22215	-0.28779	-0.22215
22	Age	0.114015766	0.005422987	21.02453	7.32E-82	0.103374	0.124657	0.103374	0.124657

			~	_	-	•	-		•
1	SUMMARY OUTPUT								
2									
3	Regression St	atistics							
4	Multiple R	0.781644427							
5	R Square	0.61096801							
6	Adjusted R Square	0.608686298							
7	Standard Error	10.45024962							
8	Observations	1030							
9									
10	ANOVA								
11		df	SS	MS	F	Significance F			
12	Regression	6	175453.5338	29242.26	267.7673008	9.3284E-206			
13	Residual	1023	111719.4946	109.2077					
14	Total	1029	287173.0285						
15									
16		Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
17	Intercept	36.95530188	17.82991024	2.072658	0.038454123	1.967925409	71.94267834	1.967925409	71.94267834
18	Cement	0.109944887	0.004020951	27.34301	5.2033E-124	0.102054634	0.117835141	0.102054634	0.117835141
19	Blast Furnace Slag	0.092282466	0.004582069	20.13991	3.02922E-76	0.083291138	0.101273794	0.083291138	0.101273794
20	Fly Ash	0.079506045	0.006790227	11.70889	8.31472E-30	0.06618168	0.092830411	0.06618168	0.092830411
21	Water	-0.278176779	0.190813409	-1.45785	0.145189597	-0.652607189	0.09625363	-0.652607189	0.09625363
22	Water^2	6.37985E-05	0.000522582	0.122083	0.902857025	-0.000961656	0.001089253	-0.000961656	0.001089253
23	Age	0.113827819	0.005639783	20.18301	1.62401E-76	0.102760953	0.124894684	0.102760953	0.124894684

When facing a situation on deciding which model to choose, which factors should be considered? Check all that apply.

Select one or more:

- Values of the Coefficient
- Values of the P-value
- Presence of Higher Degree (Curvilinearity)
- ✓ Value of the Adjusted R Squared ✓

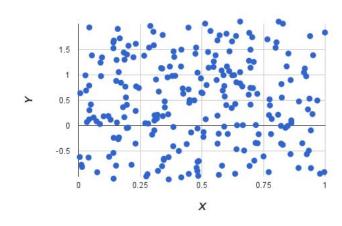
Your answer is correct.

The correct answer is: Value of the Adjusted R Squared, Values of the P-value

Question 7

Correct

Mark 2.00 out of 2.00



Which of the following describes the data having the scatter plot pictured above? Check all that applies.

Select one or more:

Negative

No linear relationship X

Positive

Non-linear X

Linear

No relationship

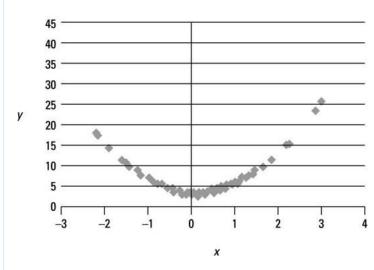
Your answer is correct.

The correct answer is: No relationship

Question 8

Partially correct

Mark 1.00 out of 2.00



Select one or more:

No linear relationship

Negative

No relationship

Linear

Positive X

Non-linear relationship

Your answer is partially correct.

You have correctly selected 1.

The correct answer is: No linear relationship, Non-linear relationship

Which of the following describes the data having the scatter plot pictured above? Check all that applies. Select one or more: ✓ Linear ✓ Weak No linear relationship ✓ Negative ✓ Positive Non-linear No relationship

Your answer is correct.

Question 9
Correct
Mark 2.00 out of 2.00

The correct answer is: Linear, Negative

Question 10 Below is the summary output for the regression from Excel for Miles per Gallon based on the factors: Cylinders, Displacement, Horsepower, Weight, Acceleration. Which of the factors (including the Intercept) are significant based on the summary output? Check all that applies. Correct Hint: When an alpha is not define, use the traditional alpha. Mark 6.00 out of 6.00 SUMMARY OUTPUT 2 3 Regression Statistics 4 Multiple R 0.841244693 5 R Square 0.707692633 Adjusted R Square 0.703906268 Standard Error 4.247055449 Observations 392 10 ANOVA 11 MS Significance F df 12 Regression 16856.5262 3371.305 186.9056 9.8205E-101 5 13 Residual 386 6962.467273 18.03748 391 23818.99347 14 Total 15 Coefficients Standard Error P-value Lower 95% Upper 95% Lower 95.0% Upper 95.0% 16 t Stat 17.33131 3.48E-50 41.0159114 17 Intercept 46.26430785 2.669406286 41.0159114 51.5127043 51.5127043 18 Cylinders -0.397928359 0.410544385 -0.96927 0.333017 -1.205111478 0.40925476 -1.205111478 0.40925476 19 Displacement -8.31301E-05 0.009071782 -0.00916 0.992693 -0.017919421 0.017753161 -0.017919421 0.017753161 20 Horsepower -0.04525708 0.016661879 -2.7162 0.0069 -0.07801648 -0.01249768 -0.07801648 -0.01249768 21 Weight -0.005186917 0.000816646 -6.35149 6F-10 -0.006792548 -0.003581286 -0.006792548 -0.003581286 22 Acceleration -0.029104714 0.125761231 -0.23143 0.817105 -0.276367486 0.218158058 -0.276367486 0.218158058 Select one or more: Data ✓ Intercept ✓ Analysis Cylinders Data Analysis Horsepower Data Analysis Displacement Weight Damping Factor Acceleration Data Analysis Data Analysis **Exponential Smoothin** Your answer is correct. Interval The correct answer is: Intercept, Horsepower, Weight Question 11 Which of the following measures the linear association between to variables and depends on the units of measure of the variables? Correct Select one: Mark 1.00 out of a. Associativity 1.00 b. Covariance o. Precedence d. Correlation Your answer is correct. The correct answer is: Covariance Question 12 Which of the following measures the linear association between to variables and does not depend on the units of measure of the variables? Correct Select one: Mark 1.00 out of a. Precedence 1.00 b. Covariance

Your answer is correct.

c. Correlation d. Associativity

The correct answer is: Correlation

	c. Mean Squared Error											
	d. Mean of Errors											
	Your answer is correct.											
	The correct answer is: Mean Absolute Deviation											
stion 14	Below is the summary output for the regression using E	ycel It tries to	estimate the F	RP: Rela	ative Perf	ormance of a	CPU based	on the factor	s: MYCT:			
	machine cycle time in nanoseconds, MMIN: minimum m											
rect	-	=	-			-	Kilobytes, C	ACIT. Cacife	inemory in			
0.00 out of	kilobytes. What is the regression equation for this data?	Use the sym	IDOIS. ERF, IVI	C I, IVIIVII	IN, IVIIVIAA	A, CACH.						
	A	В	С	D	E	F	G	Н	1			
	1 SUMMARY OUTPUT											
	2											
	3 Regression Statistics											
	4 Multiple R	0.9420										
	5 R Square	0.8873										
	6 Adjusted R Square	0.8851										
	7 Standard Error	52.4497										
	8 Observations	209										
	9											
	10 ANOVA											
	11	df	SS	MS	F	Significance F						
	12 Regression	4	4420351.116	1105088	401.7075	1.73866E-95						
	13 Residual	204	561199.104	2750.976								
	14 Total	208	4981550.22									
	15											
	16	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%			
	17 Intercept	-61.2174	6.9675	-8.7861			-47.4798		-47.4798			
	18 MYCT: machine cycle time in nanoseconds (integer)	0.0620	0.0153	4.0577			0.0922		0.092			
	19 MMIN: minimum main memory in kilobytes (integer)	0.0109	0.0015	7.3484			0.0138		0.013			
	20 MMAX: maximum main memory in kilobytes (integer)	0.0083	0.0005	16.6508	7E-40		0.0093		0.009			
	21 CACH: cache memory in kilobytes (integer)	0.7583	0.1102	6.8840	7.03E-11	0.5411	0.9755	0.5411	0.975			
	Answer: 0.0620MYCT + 0.0109MMIN + 0.0083MMAX	+ 0.7583CAC	H - 61.2174					×				
	The correct answer is: ERP = -61,2174 + 0,0620 MYCT	+ 0 0109 MM	IN + 0 0083 M	MAX + 0	7583 CA	СН						
	11.0 SS/150K G1/6/10 S1/21 17 S1/5/25 MT S1	0.01001			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
ion 15	Which measure of forecast accuracy where the error is	relative to the	actual data?									
t												
.00 out of	Select one:											

Which measure of forecast accuracy is used when you get the average of all the absolute value of the error?

Question 13

Mark 1.00 out of

Select one:

a. Mean Absolute Deviation

b. Mean Absolute Percent Error

Correct

1.00

1.00

b. MAPE o. MSE d. RMSE

Your answer is correct. The correct answer is: MAPE

Question 16 Correct	The alpha for both in regression and forecasting is something that the data analyst will set prior to generating the model. Which of the following is another term used for alpha in exponential forecasting?								
Mark 1.00 out of 1.00	Select one:								
	c. Laplace smoothing (different from Laplacian smoothing) d. Laplace value								
	Your answer is correct. The correct answer is: Smoothing value								
Question 17 Partially correct	Supposing you have just opened Excel and the Analysis Toolpak has been enabled. What are the series of steps that you need to do in order to perform Exponential Smoothing in your data? Note that verbs such as Go/Click/Type has been explicitly removed and are implied.								
Mark 6.00 out of 10.00	1.								
	Your answer is partially correct. You have correctly selected 3. The correct answer is: Supposing you have just opened Excel and the Analysis Toolpak has been enabled. What are the series of steps that you need to do in order to perform Exponential Smoothing in your data? Note that verbs such as Go/Click/Type has been explicitly removed and are implied.								
	 [Data] tab [Analysis] group [Data Analysis] [Exponential Smoothing] Input data in Input Range field. [Moving Average] field OK 								
Question 18	In the moving average technique in forecasting, what term is used to describe when the analyst choose an average of one data?								
Correct Mark 1.00 out of 1.00	Select one: a. 1-period moving average b. Naive ✓								
	c. Average-by-One technique d. There is no such thing as average of one.								

Question 16

Your answer is correct. The correct answer is: Naive