Started on Starte Wednesday, November 4, 2020, 5:19 PM Completed on Wednesday, November 4, 2020, 5:19 PM Time taken 1 hour 12 mins Grade 20.0 out of 27.0 (74%) Question 1 This first question must be answered for you to get credit for this exam. Complete Not graded This first question must be answered for you to get credit for this exam. Complete Not graded Lcertify that I an taking this exam independently and that I have not received nor given unauthorized help on this exam, which would be a violation of the Academic Integrity Policy and subject to the penalties described on the sylabus. By clicking "true," I affirm that I am an honest student who completed this exam with integrity. Select one: True True Ralse Starte Click this link Information Use the following Excel file "Baseball 2007 Data" for these problems, which reports information on the 30 Major League Baseball Data File (click this link) Question 2 For the size of the baseball stadium, assume that we know that the mean size is 45000 and the population standard deviation to be 5800. What is the probability that the stadium size is between 41750 and 49000? 0 usetton 3 For the size of the baseball stadium, assume that we know that the mean size is 45000 and the population or a. 50.00% duit 100% I 100% 0 usetton 3 rore For the size of the baseball stadium, assume that we know that the mean size is 45000 and the population standard de		
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or 1.0 a. 50.20% b. 97.05% c. 95.00% c. 95.00% d. 100% d. 100% Correct Standard deviation to be 5800. What is the probability that the stadium size is within 715 of the mean? 1.0 points out of 1.0 a. 65.50% b. 50.00% c. 23.38% d. 43.45%	1.0 points out	Select one:
 b. 97.05% c. 95.00% d. 100% Question 3 Correct I.0 points out of 1.0 Select one: a. 65.50% b. 50.00% c. 23.38% d. 43.45% 	of 1.0	◯ a. 50.20%
Question 3 Correct 1.0 points out of 1.0 Question 3 Correct 0 points out of 1.0 Question 3 Correct 0 points out of 1.0 Question 3 Correct 0 a. 65.50% 0 b. 50.00% Correct 0 a. 65.50% 0 d. 43.45%		○ b. 97.05%
Question 3 Correct 1.0 points out of 1.0 Select one: a. 65.50% b. c. 23.38% d. 4.		c. 95.00%
Question 3 Correct 1.0 points out of 1.0 Select one: a. 65.50% b. c. 23.38% d. d. 43.45%		⊙ d. 100%
Question 3 Correct 1.0 points out of 1.0 Select one: a. 65.50% b. c. 23.38% d. d. 43.45%		• d. 10070
1.0 points out of 1.0 Select one: a. 65.50% b. 50.00% c. 23.38% d. 43.45%	Question 3 Correct	For the <u>size</u> of the baseball stadium, assume that we know that the mean size is 45000 and the population standard deviation to be 5800. What is the probability that the stadium size is within 715 of the mean?
of 1.0 a. 65.50% ● b. 50.00% ✓ ○ c. 23.38% ○ d. 43.45%	1.0 points out	Select one:
 ● b. 50.00% ● c. 23.38% ● d. 43.45% 	of 1.0	a 65.50%
 b. 50.00% c. 23.38% d. 43.45% 		a. 50,00%
 c. 23.38% d. 43.45% 		
od. 43.45%		○ C. 23.38%
		◯ d. 43.45%

Correct	standard deviation to be 5800. What is the probability that the stadium size is greater than 43975?	
0 points out	Select one:	
† 1.0	a. 83.28%	~
	b. 17.25%	
	○ c. 40.45%	
	od. 23.38%	
Information	Estimation and Confidence Intervals (Chapter 9) Select the closest answer	
nformation	Continue using the same Excel baseball data set.	
Question 5	Develop a 95 percent confidence interval for the mean number of stolen bases (<u>SB Column</u>) per tean assuming that you do not know the population standard deviation	n
of 1.0	Select one:	
	○ a. 84.62, 109.91	
	○ b. 82.95, 111.59	
	○ c. 86.76, 107.77	
	● d. 85.15, 109.39	3
Question 6	Develop a 95 percent confidence interval for the mean number of errors committed (Errors Column)	per
Correct	team assuming that you do not know the population standard deviation.	
1.0 points out	Select one:	
of 1.0	○ a. 95.22, 103.98	
	○ b. 94.38, 104.82	
	○ c. 95.08, 104.12	
	 d. 94.15, 105.05 	•
Question 7	Develop a 95 percent confidence interval for the mean number of home runs (HR Column) per team	
Correct	assuming that you do not know the population standard deviation.	
1.0 points out	Colort and	
of 1.0		
	• a. 155.9, 170.50	•
	od 154,38,176,09	

Exam2 (Weeks 6 to 10): Attempt review

Question O Correct	Develop a 95 percent confidence interval for the mean number of stolen bases (SB column) per team assuming that you know the population standard deviation to be 40.0.	
1.0 points out	Select one:	
of 1.0	$\bigcirc a 84.62 \ 109.91$	
	a. 64.62, 10001	
	\bigcirc c 85.25 109.28	
	\sim d 86.76 107.77	
Question 9 Correct	Develop a 95 percent confidence interval for the mean number of home runs (<u>HR Column</u>) per team assuming that you know the population standard deviation to be 30 .	
1.0 points out	Select one:	
of 1.0	\bigcirc a 150 200	
	 a. 150, 200 b. 154, 5, 176, 0 	
	0 a. 156.22, 1/4.24	
Question 10 Correct	Develop a 95 percent confidence interval for the mean number of errors committed (<u>Errors Column</u>) per team assuming that you know the population standard deviation to be 15.0.	
1.0 points out	Select one:	
of 1.0	$\sim a - 95.10, 104.10$	
	0 h 94.15 105.05	
	0 a. 95.22, 103.98	
Information	One Sample Test of Hypothesis (Chapter 10) Select the closest answer.	
Information	Continue using the same Excel baseball data set.	
Question 11		
	Use the baseball Excel File.	
	The baseball commissioner believes that the average attendance is less than 2,300,000 per team. You	
of 1.0	decide to conduct a test of hypothesis to determine whether the mean attendance (<u>Attendance Column</u>) was more than 2,300,000 per team. Use the 5% level of significance. Note: We do not know the populations standard deviation.)
	Select one:	
	$a_{\rm r} = 700\%$ Do not reject the null. The mean attendance is less than 2.3 million	
	$a_{\rm r}$ p = .700%. Do not reject the null. The mean attendance is less than 2.3 million.	*
	• p. $p = 39.30\%$. Do not reject the null. The mean attendance is less than 2.3 million.	•
	\bigcirc c. p = ./00%. Reject the null. The mean attendance is more than 2.3 million.	
	O d. $p = 99.30\%$. Reject the null. The mean attendance is more than 2.3 million.	

Question 12	Use the baseball Excel File.	
Correct 1.0 points out of 1.0	Conduct a test of hypothesis to determine whether the mean salary (<u>Salary column</u>) of the teams different than \$75.0 million. Use the 5% level of significance. Note: We do not know the populatio standard deviation.	was Ins
	Select one:	
	• a. $p = 19.2\%$. Do not reject the null. The mean salary could be \$75 million.	~
	\bigcirc b. p = 18.16%. Do not reject the null. The mean salary could be \$75 million.	
	\bigcirc c. p = 19.2%. Reject the null. The mean salary is different than \$75 million.	
	\bigcirc d. p = 18.16%. Reject the null. The mean salary is different than \$75 million.	
Information	Two Sample Test of Hypothesis (Chapters 11 & 12) Select the closest answer.	
Information	Continue using the Excel file "Baseball 2007 Data" for these problems.	
Question 13	At the .10 significance level, is there a difference in the variation in team salary (<u>Salary Column</u>) at American and National Jackies teams (Jackies Column)? (i.e., are their variance equal)	mong the
Correct	American and National league teams (<u>League Column</u>)? (i.e., are their variances equal?)	
1.0 points out	Select one:	
01 1.0	\bigcirc a. p = .059. Do not reject the null. The variances are equal.	
	 b. There is not enough data to decide this. 	
	\odot c. p = .059. Reject the null, The variances are not equal.	~
	\bigcirc d. p = .094. Do not reject the null. The variances are equal.	
Question 14 Incorrect 0.0 points out of 1.0	Divide the data into two groups, attendance less than 2.5 million and attendance greater than 2.5 At the .05 significance level, is there a difference in the means in team salary (Salary Column) am these two groups? (i.e., are their means equal?) Note: Use a 10% level of significance to test that t variances are equal.	million. nong the the
	Select one:	
	\bigcirc a. p = .000. Do not reject the null. The means are equal.	
	\bigcirc b. p = .000. Reject the null. The means are not equal.	
	• c. $p = .112$. Do not reject the null. The means are equal.	×
	\bigcirc d. p = .112. Reject the null, The means are not equal.	
Question 15	Divide the data into two groups, attendance less than 2.5 million and attendance greater than 2.5	million.
Incorrect		
0.0 points out of 1.0	At the .10 significance level, is there a difference in the variation in team salary (<u>Salary Column</u>) at these two groups? (i.e., are their variances equal?)	mong the
	Select one:	
	a. p = .100. Do not reject the null. The variances are equal.	×

Page 4 of 8

×

- \bigcirc b. p = .112. Do not reject the null. The variances are equal.
- \bigcirc c. p = .100. Reject the null. The variances are not equal.
- \bigcirc d. p = .112. Reject the null, The variance are not equal.

Question 16 Incorrect

0.0 points out of 1.0

At the .10 significance level, is there a difference in the means in team salary (<u>Salary Column</u>) among the American and National league teams? (i.e., are their means equal?) Note: Use a 5% level of significance to test that the variances are equal.

Select one:

- a. p = .149. Do not reject the null. The means are equal.
- \bigcirc b. p = .149. Reject the null, The means are not equal.
- \bigcirc c. p = .136. Reject the null, The means are not equal.
- \bigcirc d. p = .136. Do not reject the null. The means are equal.

Information

Regression and Correlation (Chapter 13)

Information

Below is a table of individual's salaries and some characteristics. For these questions on Regression and Correlation, use the "**Bettendorf Salary**" data and the "**Experience**" data. We will explore whether salaries are dependent upon experience.

Here is a link the to dataset Excel file that you can use for these problems, if you prefer.

Individual	Bettendorf Salary	Experience (X1)	Education (X2)	Sex (X3)
1	53600	5.5	4.0	F
2	52500	9.0	4.0	М
3	58900	4.0	5.0	F
4	59000	8.0	4.0	М
5	57500	9.5	5.0	М
6	55500	3.0	4.0	F
7	56000	7.0	3.0	F
8	52700	1.5	4.5	F
9	65000	8.5	5.0	М
10	60000	7.5	6.0	F
11	56000	9.5	2.0	М
12	54900	6.0	2.0	F
13	55000	2.5	4.0	М
14	60500	1.5	4.5	М

Question	17
Correct	

1.0 points out

of 1.0

What is the "coefficient of determination"?

Select one: a. 1.093

- b. .036
- c. .128
- od. .305

 \checkmark

Question 18	What is the "slope" of the linear relationship?	
Correct		
1.0 points out	Select one:	
of 1.0	• a. 225.0	•
	0 b. 425	
	C. 498.0	
	0 a305	
Question 19	What is the "Intercept" of the linear relationship?	
Correct		
1.0 points out	Select one:	
of 1.0	○ a. 50890.2	
	○ b. 424	
	⊙ c. 55613.5	~
	○ d. 1.109	
Question 20		
	What is the "correlation coefficient"	
Correct	Select one:	
of 1.0	◯ a949	
	• b190	~
	○ c357	
	⊂ d305	
Question 21	What can you conclude about the relationship?	
Correct		
1.0 points out	Select one:	
of 1.0	a. There is a weak negative relationship between the data.	•
	b. There is a weak positive relationship between the data.	•
	 c. There is a strong negative relationship between the data. 	
	 d. There is a strong positive relationship between the data. 	
Question 22	At the 10% level of significance, would you claim that the data is correlated?	
Incorrect		
0.0 points out	Select one:	
of 1.0	\bigcirc a. Yes, the data is correlated.	
	\bigcirc b. There is insufficient data to answer this question.	
	\bigcirc c. I would claim that there is a strong negative relationship between the data.	
	 d. I would claim that there is a weak negative relationship between the data. 	×
	\bigcirc e. No, the data is not correlated.	
Question 23	If a person had six (6) years experience, what would you predict the salary to be?	
Correct	a person had ex (e, years experience, what would you product the build y to be:	
10	Select one:	

ι.υ μοπτε ουτ	
of 1.0	○ a. 48,200
	○ b. 51,323
	○ c. 9,181
	• d. 56,952 • ✓
	○ e. 53,878
Information	Multiple Regression (Chapter 14)
Information	For these questions on Multiple Regression, use the Bettendorf salary data and the " Experience , " " Education ," and " Sex " data. We will explore whether salaries are dependent on these three variables. For Sex, use a zero (0) for females (F) and a one (1) for males.
Question 24	What is the coefficient of determination between the three predictors taken as a group and annual salary.
10 points out	
of 1.0	Select one:
	○ a771
	● b323 ✓
	○ c522
	○ d772
Question 25	At the 5% level of significance, is there a relationship in the population between the three predictors taken
Correct	as a group and the annual salary for teachers?
1.0 points out	Select one:
of 1.0	\bigcirc a. 50/50 chance that there is.
	• b. No
	C Cannot be determined from the data
	O d. Yes
Question 26	Let X1 = experience, X2 = Education, and X3 = Sex, what is the multiple regression equation?
	Select one:
of 1.0	• a. Y=48951.9 + 195.3(X1) + 1480.6(X2) + 1595.1(X3) • • •
	b. Y=41462.6 + 337.3(X1) + 2169.3(X2) + 3097.0(X3)
	• c. $Y = 42410.2 + 403.5(X1) + 1856.4(X2) + 2964.4(X3)$
	d. Y= 2809 + 228.5(X1) + 560.6(X2) + 1287.4(X3)
Question 27	Which predictor(s), if any, would you remove because it does not contribute to the regression models,
Incorrect	using the 90% confidence level, $\alpha = .10$?
0.0 points out	Select one:
of 1.0	

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	O C. Experie	ence							
	🔿 d. None								
ation			Ор	timization	ı - Transp	ortation M	del		
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