Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

grade 90%

Retake the assignment in 7h 57m

ANOVA and Regression

LATEST SUBMISSION GRADE

90%

1.	You can examine Levene's test for homogeneity to more formally test which of the	
	following assumptions?	

1 / 1 point



2. Given the following output, is there sufficient evidence to reject the assumption of equal variances?

1 / 1 point

Levene's Test for Homogeneity of Weight Variance								
ANOVA	ANOVA of Squared Deviations from Group Means							
Source DF		Sum of Squares	Mean Squares	F Value	Pr > F			
Brand	1	9.237E-7	9.237E-7	1.12	0.2942			
Error	78	0.000065	8.283R-7					



3.

1 / 1 point

Given the following SAS output, is there sufficient evidence to reject the hypothesis of equal means?

Source	DF	Sum of Squares	Mean Squares	F Value	Pr > F
Brand	1	0.03033816	0.03033816	51.02	<.001
Error	79	0.04638442	0.00059467		
Corrected Total	80	0.07672257			



4. Dunnett's method compares all possible pairs of means.

1/1 point

- ✓ Correct
- 5. Which of the following phrases describes the model sums of squares, or SSM, in one-way 0/1 point ANOVA?
 - Incorrect
- 6. Based on the following correlation matrix, what type of relationship do **Performance** and **RunTime** have?

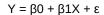
1/1 point

Pearson Correlation Coefficients, N = 31 Prob > r under H0: Rho=0					
Performance RunTime Age					
Performance	1.00000	-0.82049	-0.71257		
Fellollilance		<.0001	<.0001		
Error	-0.82049	1.00000	0.19523		
	<.0001		0.2926		
Corrected Total	-0.71257	0.19523	1.00000		
Corrected Total	<.0001	0.2926			

✓ Correct

7. In the simple linear regression model, what does $\beta1$ represent?

1/1 point





8. Which of the following statements describes a positive linear relationship between two variables?

1/1 point

- 1. The more I eat, the less I want to exercise.
- 2. The more salty snacks I eat, the more water I want to drink.
- 3. No matter how much I exercise, I still weigh the same.



9. What output does the following program produce?

1/1 point

```
proc corr data=stat1.bodyfat2 nosimple
plots(only)=scatter(nvar=all);
var Age Weight Height;
run;
```



10.

1 / 1 point

Given the following PROC REG output and assuming a significance level of 0.05, which of the following statements is true?

Analysis of Variance						
Source DF Sum of Mean F Value Pr > I						
Model	1	119.72668	119.72668	2.00	0.1585	
Error	250	14959	59.83716			
Corrected Total	251	15079				

Root MSE	7.73545	R-Square	0.0079
Dependent Mean	18.93849	Adj R-Sq	0.0040
Coeff Var	40.84511		

Parameter Estimates								
Variable DF Parameter Standard t Value Estimate Error								
Intercept	1	32.16542	9.36350	3.44	0.0007			
Height	1	-0.18856	0.13330	-1.41	0.1585			

✓ Correct