Coursework

Back to assignment list

Regression Project

Homework - Test 5

Test 5

Exam in Test 5

Your final grade is

89.55/100, B+ (89.55%)

For more workflow details, see your Full history

For the full assignment information, read the instructions

You submitted this attempt **on time** on **Tuesday, April 25 at 10:01 AM**
You spent **38 minutes** taking the attempt

Expand all responses

Section 1

54.55/60

1) MatchingQuestion (60pts)

Use ANOVA to determine if there are differences in driver errors based on the driver's type of car phone used. Match the questions with the analysis results.

Hand-Held	Speakerphone	Hands-Free
8	5	2
6	4	1

You selected:

- Degrees of Freedom Between Groups ➜ 2
- Name the independent variable ➜ Type of Car Phone Used

Answer key:

- Degrees of Freedom Between Groups ➜ 2
- Name the independent variable ➜ Type of Car Phone Used

F-Critical Value	➜	9.55	F-Critical Value	➜	9.55
Reject of Fail to Reject Ho?	➜	Fail to Reject	Reject of Fail to Reject Ho?	➜	Reject
Name the dependent variable	➜	Driver Errors	Name the dependent variable	➜	Driver Errors
What is the level of measurement for errors?	➜	Interval/Ratio	What is the level of measurement for errors?	➜	Interval/Ratio
Is errors continuous or discrete?	➜	Continuous	Is errors continuous or discrete?	➜	Continuous
Amount of error involved	➜	3	Amount of error involved	➜	3
F-Value	➜	15.17	F-Value	➜	15.17
Sum of Squares Between Groups	➜	30.33	Sum of Squares Between Groups	➜	30.33
Write the null hypothesis	➜	There is no statistically significant difference in driver errors by type of car phone used	Write the null hypothesis	➜	There is no statistically significant difference in driver errors by type of car phone used

35/40

2) MatchingQuestion-2 (40pts)

Matching the following terms about ANOVA.

You selected:			Answer key:		
Variables free to vary	➜	Degrees of freedom	Variables free to vary	➜	Degrees of freedom
Test for differences in 3 groups	➜	ANOVA	Test for differences in 3 groups	➜	ANOVA
Statistical Assumptions	➜	Homogeneity of Variance	Statistical Assumptions	➜	Dependent variable must be interval/ratio
Two Independent Variables	➜	2-Way ANOVA	Two Independent Variables	➜	2-Way ANOVA
Difference found when comparing 3 groups with a t-test	➜	Type I Error	Difference found when comparing 3 groups with a t-test	➜	Type I Error
Random Variance	➜	MSwg	Random Variance	➜	MSwg

Treatment Variance	➜ MSbg 2-Level	Treatment Variance	➜ MSbg 2-Level
Gender	➜ Independent variable	Gender	➜ Independent variable

Add a comment