Coursework







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Homework Test 4

Test 4

Exam in Test 4

Your final grade is

90.91/100, B+ (90.91%)

For more workflow details, see your <u>Full history</u> **→**

For the full assignment information, read the instructions ▼

You submitted this attempt on time on Tuesday, April 11 at 2:26 PM You spent **35 minutes** taking the attempt

Collapse all responses ^

Section 1

24/24

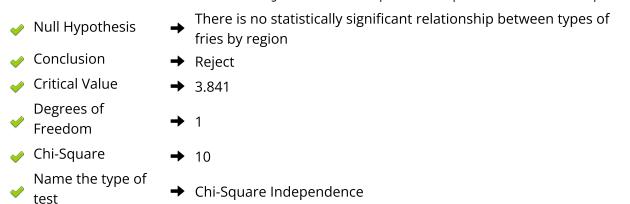
1) MatchingQuestion (24pts) ^

Match the answers for the appropriate analysis for the scenario below.

A major food manufacturer is concerned that the sales for its skinny French fries have been decreasing. As a part of a feasibility study, the company conducts research into the types of fries sold across the country to determine if the type of fries sold is independent of the area of the country. The results of the study are shown in the table below. Are fries and region of the country significant? HOV (p=.404), α =.05.

Type of Fries	Northeast	South
skinny fries	70	50
steak fries	20	40

You selected:



30.91/34

2) MatchingQuestion [1] (34pts) ^

Match the answers for the appropriate analysis for the scenario below.

Below you will the number of study minutes per student along with their mock ACT score. Use the data to answer the following questions for this research study.

Student	Study Minutes	Mock ACT Score
Demar	4	16
Derwin	14	17
Eden	25	15
London	32	19

	You selected:			Answer key:		
~	Prediction at 20 minutes	→	16.86	Prediction at 20 minutes	→	16.86
~	Slope of the regression line	→	0.063	Slope of the regression line	→	0.063
~	Calculate residual at 25 minutes	→	-2.2	Calculate residual at 25 minutes	→	-2.2
•	Type of Graph Appropriate for Data	→	Scatter Plot	Type of Graph Appropriate for Data	→	Scatter Plot
~	What type of data is Mock ACT Score	→	Quantitative	What type of data is Mock ACT Score	→	Quantitative
•	r	→	0.46	r	→	0.46
•	Level of Measurement for Study Minutes	→	Interval/Ratio	Level of Measurement for Study Minutes	→	Interval/Ratio
•	interpret r	→	Positive and moderate relationship	interpret r	→	Positive and moderate relationship

Interpret the residual at 25 minutes	→ Overestimated	Interpret the residual at 25 minutes	→	Overestimated
* xbar	→ 17.2	xbar	→	18.75
Name two variables for this research	Study Minutes; Mock ACT Score	Name two variables for this research	→	Study Minutes; Mock ACT Score

18/24

3) MatchingQuestion [2] (24pts) ^

Matching the following correlation and regression terms.

You selected:		Answer key:	
X and Y vary indirectly	→ Negative slope	X and Y vary indirectly	→ Negative slope
Positive Residual	→ Overestimated	Positive Residual	→ Underestimated
Linear Equation	→ Slope and intercept	Linear Equation	→ Slope and intercept
Negative residual	→ Underestimated	Negative residual	→ Overestimated
Correlation Coefficient	→ Strength and Direction	Correlation Coefficient	→ Strength and Direction
Outlier	Greater than two standard deviations	Outlier	Greater than two standard deviations
X and Y vary directly	→ Positive slope	X and Y vary directly	→ Positive slope
 Homoscedasticity 	→ Equidistant from line	Homoscedasticity	→ Equidistant from line

18/18

4) MatchingQuestion [3] (18pts) ^

Match the answers for the appropriate analysis for the scenario below.

Ciara, an ornithologist, has 2 bird feeders at separate locations. She wonders if birds are equally likely to visit each of the feeders. She recorded data for a sample of 350 visits.

Feeder	#1	#2
Observed Visits	165	185

You selected:

Chi-Square

1.14

- ✓ Name the type of test
 ✓ Chi-Square Goodness of Fit
 ✓ What is the critical value at 5% error?
 → 3.84
- ✓ Degrees of Freedom✓ What are the expected values for each feeder?→ 175
- ✓ Conclusion
 → Fail to Reject

Add a comment