

COURSEWORK ACTIVITIES

Assessment 1: Applied Statistics - 20 %

Due Date: November 7, 2020 @ 11:55pm ECT/10:55 JA.

Graded Assignment Descriptions and Instructions

This is an individual Assignment. This assignment has Two (2) Parts.

You Must Answer Both Parts

SPSS Exercise – Part I: For this assignment, enter the given data into SPSS. In your responses, be sure to show the screen shot (using the Snipping Tool for Microsoft Windows and the Grab tool for Macintosh) from the SPSS output window.

- 1. Use the SPSS tools to explore the influence of years of teaching on average income, as presented in the following table:**

Years of Teaching (X)	Average Income (Y)
11.4	\$29,560
11.0	\$31,450
9.8	\$31,850
11.1	\$32,450
9.6	\$32,360
10.2	\$27,830
12.1	\$36,640
10.5	\$31,240
10.7	\$29,090
9.6	\$25,780
10.9	\$36,590
9.3	\$31,420
11.1	\$35,720
11.9	\$29,760
12.2	\$39,100
9.8	\$32,500

REQUIRED:

- Produce a scatterplot for average income and years of teaching.
- Compute the correlation coefficient, r , between years of teaching and average income.
- Explain the results of the correlation obtained between years of teaching and average income.
- Conduct a T-test to explore whether the difference in salary between those with 10 years of teaching or less and those with greater than 10 years of teaching is significant. Explain your answer, including your hypothesis.

SPSS Exercise – Part II: For this assignment, enter the given data into SPSS. In your responses, be sure to show the screen shot (using the Snipping Tool for Microsoft Windows and the Grab tool for Macintosh) from the SPSS output window.

- A researcher is examining the relationship between race and level of education on the average test score for their various high school Maths classes. The researcher hypothesizes that higher educated minority teachers have a higher average class scores. To test this hypothesis, she reviews a sample of the current district data, as shown in the table below:

Participant	Race	Level of Education	Test Score
1	White	Bachelor's Degree	74
2	Black	Bachelor's Degree	80
3	Hispanic	Bachelor's Degree	69
4	Other	Master's Degree	69
5	White	Master's Degree	94
6	Black	Master's Degree	86
7	Hispanic	Master's Degree	69
8	Other	Specialist Degree	84
9	White	Specialist Degree	92
10	Black	Specialist Degree	68
11	Hispanic	Specialist Degree	89
12	Other	Specialist Degree	67
13	White	Doctoral Degree	92
14	Black	Doctoral Degree	94
15	Hispanic	Doctoral Degree	77
16	Other	Bachelor's Degree	80

Race Categories: White = 1; Black = 2; Hispanic = 3; Other = 4

Level of Education Categories: Bachelor's Degree = 1; Master's Degree = 2;
Specialist Degree = 3; Doctoral Degree = 4

REQUIRED:

- Perform a linear regression analysis to examine the effect of the independent variables (race and education) on the dependent variable (test score). **Explain the steps you used and show the screen shots obtained.**
- On the screenshot for the regression output, indicate each item as described below:
 - Circle the R Square
 - Box the Adjusted R Square
 - Double underline the three (3) B values; and,
 - Underline any significant t-values
- Explain the meaning of each item in the four bullets listed above.
- Explain what the regression results mean.

The format for presenting the Applied Statistics Exercises is as follows:

- Cover Page (include Course title/code, Title/Topic of questions answered, Course Coordinator, Group Facilitator, Student Name and ID)
- Table of Contents (include appendices, etc. if any)
- Content – This is where you will present the responses to the questions in the assignment

- References

Other considerations:

- Line spacing = 2
- Font = Times Roman (12 points)
- Page numbering
- The written document MUST not be more than 10 pages and MUST be submitted as a Microsoft Word file to the Designated Assignment Drop box. References, cover page and table of contents are not included in the page limit. However, appendices are included in the page limit.
- The file name for the Assignment should take the format as follows:
EDRS8008 – Student ID – AS1
 - Example: EDRS8008 – 1234567- AS1

Penalties

- There is a 10% deduction per day or part thereof for late submission of assignments
- There is a penalty of one (1) mark for each page or part thereof above the page limit stipulations

Rubrics and Guidelines

Assignment #1: Applied Statistics. Total Rubric out of 40 Points (Part 1 = 20 and Part 2 = 20)

SPSS Exercise Part 1 – Total out of 20

Criteria	4-5	3 Points	0-2 Points
a. /5	Correctly produced both the layout and scatterplot for years of teaching and average income, showing all steps in SPSS.	Produced the scatterplot, and showing partial layout in SPSS.	Produced only the scatterplot, without showing the layout in SPSS.
b. /5	Correctly detailed the steps for calculating the correlation, and showed the output from SPSS	Produced the output from SPSS, showing partial steps for calculating the correlation.	Produced only the output from SPSS, without showing the steps
c. /5	Provided the correct response for the correlation, noting both the correlation direction and significance.	Provided a correct response for the correlation, but was either missing the direction, or significance.	Provide incorrect response
d. /5	Correctly detailed the steps for calculating a t-test, showed the output from SPSS, and produced the correct response and explanation.	Produced only the correct response and output from SPSS, and showing partial steps for calculating the t-test.	Produced only the correct response and output from SPSS without showing steps
Total Score – SPSS Exercise Part 1: /20			

SPSS Exercise Part 2 – Total out of 20

Criteria	4-5	3 Points	0-2 Points
a. /5	Correctly detailed the steps for calculating the regression, and showed the SPSS layout and the outputs.	Produced the output from SPSS, and showing partial steps for calculating the regression	Produced only the output from SPSS, without showing the steps for calculating the
b. /5	Provided a screenshot for the identified output, and correctly detailed each bulleted item.	Provided a screenshot for the identified output, and correctly detailed some of the bulleted item.	Provided a screenshot for the identified output, and only correctly detailed one of the bulleted item.
c. /5	Provided a detailed response to each item.	Provided only partial responses to some, or all items.	Provided limited responses to some, of the items.
d. /5	Correctly explain the results for the regression	Correctly explain most of the results of the regression.	Correctly explain some of the results of the regression.
Total Score – SPSS Exercise Part 2: /20			
TOTAL (Part 1 + Part 2) (/20 + /20)/2* 20			

Score Breakdown (your assigned mark out of the total score)

Assignment # 1: Applied Statistics

The maximum points you will be awarded for this assessment item total 40 points.

NB: Your final grade of 20% will be prorated based on the total number of points you are awarded. For example, if you are awarded 30/40 points, your final grade for this assessment item will be 15% calculated as follows (30/40 x 20).

Assessment 2: Evaluating Educational Research – 20%

Due Date: November 21, 2020 @ 11:55pm ECT/10:55 JA.

Graded Assignment Descriptions and Instructions

This is an Individual Assignment

Instructions

Part A:

- Identify an educational research area of interest to you for which a quantitative study could be done
- Select 8-10 **peer reviewed recent (within last 7 years) quantitative** research articles related to your area of interest
- Outline your research question(s) and Hypothesis (es) ensuring that they can be answered by quantitative methods
- **Analyse and summarise** the research articles which you have chosen:
 - i. Showing clearly how they relate to your research questions and how they informed the development of your question
 - ii. Discuss issues of reliability and validity
 - iii. Comment on the appropriateness of the methodology

Part B: Based on Learning Activity 6.5 – Survey Design Exercise

- Develop a 10-item survey instrument that is linked to the research area in education of interest to you in Part A
- Write a brief introduction describing the purpose of the questionnaire, its intended use and the target population. Link this to your research questions and hypotheses in Part A
- Describe your target population, sampling frame and method of how you would collect the data, and how you would attempt to ensure a high response rate
- Pilot the questionnaire with a few persons – describe what you learned from the pilot and any revisions you would make, including the amount of time to administer the questionnaire
- Students are required to upload their assignments to the designated ***Turn-It-In*** Assignment drop box on the course page. This will allow for checking of the originality of content. The Similarity Index should be 15% and under. **Students must ensure that their assignments comply with this stipulation as any assignment submitted with a similarity index greater than 15% will incur a penalty (see table below) may not be graded and will be referred to the Academic Division.**

High Similarity Index Penalty guide

- 16% - 25% (minus 2 points from total score)
- 26% - 34% (minus 5 points from total score)
- 35% & Over (assignment unacceptable)

- Please see the University's guidelines on plagiarism at:
http://sta.uwi.edu/resources/documents/postgrad/guidelines_staff_students_plagiarism.pdf

For referencing and writing assistance, students can refer to the following sites and the documents posted on the Course Page regarding **Citing of Sources of data/information and Writing**:

Purdue Online Writing Lab:

<https://owl.english.purdue.edu/owl/resource/560/01/>

- The written document **MUST** then be submitted as a Microsoft Word file to the designated **Assignment Drop box**.

The format for presenting the **Evaluating Educational Research** is as follows:

- Cover Page (include Course title/code, Title/Topic of questions answered, Course Coordinator, Group Facilitator, Student Name and ID)
- Table of Contents (include appendices, etc. if any)
- **Evaluating Educational Research**
- References
- Your final submission should not exceed 10 pages, using 12 point Times New Roman, double spaced and **APA 7th ed.** style for **referencing, citations and writing**. References cover page and table of contents, are not included in the page limit. However, appendices are included in the page limit.
- Page numbering
- The written document **MUST** be submitted as a Microsoft Word file to the designated **Assignment Drop Box** after you have check your similarity index.
- The file name for the Assignment should take the format as follows: EDRS8008 - Student ID – EER2
Example: EDRS8008 - 1234567 – EER2

Penalties

- There is a 10% deduction per day or part thereof for late submission of assignments

Rubrics and Guidelines

Assignment #2 - Evaluating Educational Research out of 85

Rubric Criteria	Excellent	Good	Satisfactory	Poor
Selection of Articles /10	Information is gathered from 8-10 peer reviewed recent research-based sources 9-10 marks	Information is gathered from 6-7 peer reviewed recent research-based sources 7-8marks	Information is gathered from 4-5 peer recent reviewed research-based sources 5-6 marks	Information is gathered from 1-3 peer reviewed recent research -based sources 0-4 marks
Critical Analysis of Research /20	Paper shows critical analysis of the research articles including the appropriateness of the methodology to answer the research question 18-20 marks	Paper shows a good analysis of the research articles including the appropriateness of the methodology to answer the research question 15-17marks	Paper shows some analysis of the research articles including the appropriateness of the methodology to answer the research question 10-14 marks	Paper shows little or no critical analysis of the research articles 0-9 marks
Issues of validity and reliability /10	Analysis of research articles includes thorough description of issues of both reliability and validity 9-10 marks	Analysis of research articles includes a good description of issues of both reliability and validity 7-8marks	Analysis of research articles includes some description of issues of reliability or validity 5-6 marks	Analysis of research articles includes very limited or no description of issues of reliability and validity 0-4 marks
Research Question/Hypothesis /10	Research question(s) and Hypotheses are stated so that they are clearly answerable/testable using quantitative methods. 9-10 marks	Research question(s) and hypotheses are stated so that they are answerable /testable using quantitative methods. 7- 8marks	Research question(s) and hypotheses are stated so that they may be answerable /testable using quantitative methods. 5-6 marks	Research question(s) and hypotheses are not stated clearly enough to determine if they are answerable /testable using quantitative methods. 0-4 marks

Research Question /10	Selected research articles show a strong linkage to the development of the research question 9-10 marks	Selected research articles show good linkage with the development of the research question 7-8marks	Selected research articles show some linkages to the development of research question 5-6 marks	Selected research articles shows little or no relationship with the development of research question 0-4 marks
10-item survey instrument / 10	10-item survey instrument is fully linked to the research area 9-10 marks	10-item survey instrument is mostly linked to the research area 7-8marks	10-item survey instrument is partially linked to the research area 5-6 marks	10-item survey instrument need further work and is only partially linked to the research area 0-4 marks
Brief introduction /5	Introduction provides a complete description of the purpose of the questionnaire, its intended use and the target population; Link to research questions and hypotheses established 5 marks	Introduction provides a good description of the purpose of the questionnaire, its intended use and the target population; Link to research questions and hypotheses established 4 marks	Introduction provides a description of the purpose of the questionnaire, its intended use and the target population; Link to research questions and hypotheses partially established 3 marks	Introduction provides limited of the purpose of the questionnaire, its intended use and the target population; Limited link to research questions and hypotheses established 0-2 marks
Description of target population and sampling /5	Excellent description of target population, sampling frame and method for data collection; Detailed explanation of how to ensure a high response rate	Good description of target population, sampling frame and method for data collection; Good explanation of how to ensure a high response rate	Some description of target population, sampling frame and method for data collection; Some explanation of how to ensure a high response rate	Limited description of target population, sampling frame and method for data collection; and limited explanation of how to ensure a high response rate

Description of results of pilot /5	Excellent description of lesson learned from pilot; any revisions made, and estimation of amount of time to administer the questionnaire 5 marks	Good description of lesson learned from pilot; any revisions made, and estimation of amount of time to administer the questionnaire 4 marks	Some description of lesson learned from pilot; any revisions made, and estimation of amount of time to administer the questionnaire 3 marks	Limited description of lesson learned from pilot; any revisions made, and estimation of amount of time to administer the questionnaire 2 marks
References and citations /5	Almost all (over 95%) of the sources are referenced and cited correctly using APA 7 format. 9-10 marks	Most (over 80%) of the sources are referenced and cited correctly using APA 7 format. 7-8 marks	Some of the sources are referenced and cited correctly using APA 7 format. 5-6 marks	Less than half of the sources are referenced and cited correctly using APA 7 format. 0-4 marks
Length /5	Adheres to 10 page criteria. 5 marks	Exceeds or does not meet 10 page criteria by ½ page or less. 4 marks	Exceeds or does not meet 10 page criteria by ½ to 1 page. 3 marks	Exceeds or does not meet 10 page criteria by more than 1 page. 0-2 marks
Writing style including grammar /5	Well organized, demonstrates logical sequencing and structure and no grammatical errors 9-10 marks	Well organized, but demonstrates illogical sequencing or structure with a few grammatical errors 7-8 marks	Weakly organized with no logical sequencing or structure with several grammatical error. 5-6 marks	No organization, sequencing, or structure with many grammatical errors 0-4 marks
Total = /100 *20				

Score Breakdown (your assigned mark out of the total score)

Assignment 2: Evaluating Educational Research

The maximum points you will be awarded for this assessment item total 85 points.

NB: Your final grade of 20% will be prorated based on the total number of points you are awarded. For example, if you are awarded 80/100 points, your final grade for this assessment item will be 16% calculated as follows ($80/100 \times 20$).

Assessment 3: Individual Project - Using Quantitative Analysis in Research - 40 % Due Date: December 11, 2020 @ 11:55pm ECT/10:55 JA.

Graded Assignment Descriptions and Instructions

This is an Individual Assignment. This assignment has Four (4) Parts.

You Must Answer All 4 Parts

You are required to develop 4 aspects of a quantitative research paper (methodology, data collection, results and discussion) for the research problem based on your research area of interest identified in Assignment 2 and using your survey instrument developed in Assignment 2

Part 1: Research Methodology

In this section, you will outline a proposed research methodology for your research question and hypotheses established in Assignment 2, including the research design and sampling procedure. Be sure to include responses to the following questions for your hypothetical research project:

- a) Is each step of your research procedure outlined here?
- b) For your data collection instrument what type of reliability/validity has been established.
- c) How would you maintain the confidentiality of your participants.
- d) What statistical tests are used and what is the rationale for the usage?

Part 2: Data Generation

In this section you can use the survey instrument developed in Assignment 2 to collect your own data. Alternatively, you may search any online or other databases for relevant data or generate your own data using an online random number generator to create a fictionalized dataset which is large enough to support your analysis.

**Part 3:
Results**

In the results section, you will synthesize and share the results of your statistical analysis. In your analysis be sure to include responses to the following questions for your hypothetical research project:

- a) Is there a screen capture from the SPSS results included in this segment?
- b) Are the results (charts, graphs and text) reported in current **APA 7th ed** format with all relevant values and relevant alpha levels?
- c) Did you reject or fail to reject the null hypothesis, and how did you come to this conclusion?

- d) Did you discuss whether or not the findings were statistically significant based on the statistical output from SPSS?

Part 4:

Discussion

In this section, discuss the implications of your research results on the field of education, recommendations for further research, and strengths and limitations. Be sure to include responses to the following questions for your research project:

- Did you discuss the implications of the findings on the field of education?
- Did you adequately discuss how the findings will be relevant and contribute to the education environment?
- Did you identify both the strengths and limitations of the study?
- Did you identify significant recommendations for future research?

Additional Instructions

- Students are required to upload their assignments to the designated *Turn-It-In* Assignment drop box on the course page. This will allow for checking of the originality of content. The Similarity Index should be 15% and under. **Students must ensure that their assignments comply with this stipulation as any assignment submitted with a similarity index greater than 15% will incur a penalty (see table below) and may not be graded and will be referred to the Academic Division.**

High Similarity Index Penalty guide

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 - 35% & Over (assignment unacceptable)
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- Please see the University's guidelines on plagiarism at:
http://sta.uwi.edu/resources/documents/postgrad/guidelines_staff_students_plagiarism.pdf
 - The written document **MUST** then be submitted as a Microsoft Word file to the designated **Assignment Drop box**.

For referencing and writing assistance, students can refer to the following sites and the documents posted on the Course Page regarding **Citing of Sources of data/information and Writing**:

Purdue Online Writing Lab:

The format for presenting the **Research Project** is as follows:

- Cover Page (include Course title/code, Title/Topic of questions answered, Course Coordinator, Group Facilitator, Student Name and ID)
- Table of Contents (include appendices, etc. if any)
- **Research Project: Using Quantitative Analysis in Research**
- References
- Your final submission should not exceed 15 pages, using 12 point Times New Roman, double spaced and APA 7th style for **referencing, citations and writing**. References, cover page and table of contents are not included in the page limit. However, Appendices are counted in the page limit.
- Page numbering
- The written document **MUST** be submitted as a Microsoft Word file to the designated Assignment Drop Box after you have check your similarity index.
- The file name for the Assignment should take the format as follows: EDRS8008 - Student ID – RP3
- Example: EDRS8008 - 234567 – RP3

Penalties

- There is a 10% deduction per day or part thereof for late submission of assignments
- There is a penalty of one (1) mark for each page or part thereof above the page limit stipulations

Rubrics and Guidelines

Assignment 3- Research Project out of 100

Criteria	Excellent (9-10)	Good (7-8)	Satisfactory (5-6)	Poor (0-4)
Research Methodology /10	The student accurately outlined each step of the research methodology so that it is reproducible 9-10 marks	The student has provided an adequate outline of the steps of the research methodology 7-8 marks	The student provided a fairly limited description of the steps of the research methodology. 5-6 marks	The student failed to fully describe the steps of the research methodology 0-4 marks

Data Collection Procedures used to collect data are outlined. /10	The student provided a full description of the data collection procedures, including how reliability and validity issues were addressed. 9-10 marks	The student has provided an adequate description of the data collection procedures And how reliability and validity issues were addressed. 7-8 marks	The student provided a fairly limited description of the data collection procedures and how reliability and validity issues were addressed. 5-6 marks	The student failed to fully describe the data collection procedures and little or no description of how reliability and validity issues were addressed. 0-4 marks
Sampling /10	The student provides a detailed description of the sampling procedure and a strong rationale for their choices. 9-10 marks	The student provides a description of the sampling procedure and some rationale for their choices. 7-8 marks	The student provides a some description of the sampling procedure and little rationale for their choices. 5-6 marks	The student provides minimal description of the sampling procedure and a poor or no rationale for their choices. 0-4 marks
Data Analysis Statistical procedures used to analyze data are outlined and the correct statistical test(s) are identified and justified /15	The student provides a comprehensive overview of all statistical tests utilized and provides a rationale for their use 13 - 15 Marks	The student provides an adequate overview of all statistical tests utilized. 10-12 Marks	The student provided a limited overview of all statistical tests utilized. 7- 9 Marks	The student did not provide an adequate description of the statistical procedures for data analysis. 0-6 Marks
Use of the Null Hypothesis The decision to reject or fail to reject the null hypothesis is correctly stated, along with the rationale for that decision. /5	The student clearly details the decision to reject or fail to reject the null hypothesis, and provides a strong rationale for that decision. 5 marks	The student clearly details the decision to reject or fail to reject the null hypothesis, but provides a weak rationale for that decision. 4 marks	The student provides what appears to be a random decision to reject or fail to reject the null hypothesis, and thus demonstrates a lack of understanding about on hypothesis testing. 3 marks	The student did not provide a final decision of whether to reject or fail to reject the null hypothesis, thus no rationale was provided for this decision. 0-2 marks

Statistical Significance A discussion of statistical significance is provided. /10	The student fully discusses the statistical significance of results, and details the information in the text. 9-10 marks	The students adequately discusses the statistical significance of results, however, textual details are limited. 7-8 marks	The student provides a limited discussion of statistical significance, and provides no citations details. 5-6 marks	The student's assumption of statistical significance demonstrated a lack of understanding in this area. 0-4 marks
Strengths and limitations Strengths and limitations of the research are provided. /10	The student provides a detailed and comprehensive list of both strengths and weaknesses in the research. 9-10 marks	The student provides too strong an emphasis on either range (strength or limitation), to the exclusion of the other. 7-8 marks	The student provides a very limited list of strengths and weaknesses in the research. 5-6 marks	The student provided an extremely brief, or absent, discussion on the research strengths and weaknesses. 0-4 marks
Relevance Relevance to the field of education is indicated. /10	The student very effectively ties the study results to existing research in determining the relevance to the field of education. 9-10 marks	The student adequately ties the study results to existing research in determining the relevance to the field of education. 7-8 marks	The student provides a very limited ability to tie the results of the study to existing research in determining the relevance to the field of education. 5-6 marks	The student does not tie the research results to the current educational field. 0-4 marks
Recommendations Recommendations for future research are provided. /10	The student provides strong recommendations for future research, as tied to outcomes of the study. 9- 10 marks	The student provides an adequate set of recommendations for future research, as tied to the outcomes of the study. 7- 8 marks	The student provides weak and limited recommendations for future research. 5-6 marks	The student fails to provide recommendations for future research. 0-4 marks
Written in a clear and coherent form, in APA 7 th ed format, and grammatically correct. /10	The student has written a proposal that is overall well-structured and easy to read, with no APA or grammatical issues. 9- 10 marks	The student has written well-structured proposal, with a few APA or grammatical issues. 7-8 marks	The student has written a satisfactory proposal, with several APA issues and grammatical errors 5-6 marks	The proposal is not clearly written, and fails to properly utilize the correct APA format and many grammatical errors are also present. 0-4 marks
Total /100 * 40				

Score Breakdown (your assigned mark out of the total score)

Assignment 3: Research Project

The maximum points you will be awarded for this assessment item total 100 points.

NB: Your final grade of 40% will be prorated based on the total number of points you are awarded. For example, if you are awarded 80/100 points, your final grade for this assessment item will be 32 % calculated as follows $(80/100 \times 40)$.

Participation – Formative and Graded SPSS and Other Exercises

Formative:

Textbook Assignments – Students will complete a set of selected assignments based on relevant textbook chapters. These assignments will not be graded and will be clearly depicted in the course page. Though formative, these assignments should be fully completed to demonstrate students' comprehension of the topic, or to show gaps in comprehension.

Summative:

Assessment 4: Graded SPSS and Other Exercises (20%) – During the course, students will also complete short assignments for submission for grading. These assignments will make up the participation grade of 20% and are designed to help students to practice the skills learned during the unit, and to gain a better level of confidence with the use of SPSS.

For the participation grade of 20% students are required to complete and submit the following exercises. Each exercise is valued at 5% and the exercises and rubrics will be clearly depicted in the course page.

1. Chi Square Testing – 5%

Part A

Some parents of the West Bay little leaguers think that they are noticing a pattern. There seems to be a relationship between the number on the kids' jerseys and their position. These parents decide to record what they see. The hypothetical data appear below.

	Infield	Outfield	Pitcher	Total
0-9	12	5	5	22
10-19	5	10	2	17
20+	4	4	7	15
Total	21	19	14	54

Required:

Conduct a Chi Square test using SPSS to determine if the parents' suspicion that there is a relationship between jersey number and position is right. Set up your Hypothesis and discuss your Chi Square and p values.

Part B

Suppose that college students are asked to identify their preferences in political affiliation (Democrat, Republican, or Independent) and in ice cream (chocolate, vanilla, or straw- berry). Suppose that their responses are represented in the following two-way table (with some of the totals left for you to calculate).

	Chocolate	Vanilla	Strawberry	Total
Democrat	26	43	13	82
Republican	45	12	8	65
Independent	9	13	4	26
Total	80	68	25	173

Required

Analyze the data to determine if there is a relationship between political party preference and ice cream preference.

For your answer you are required to enter the data in SPSS; Set up your hypothesis and discuss your decision and the level of significance

- 2. Based on Learning Activity 2.3 – Application of SPSS to perform t-tests - 5%**
- 3. Based on Learning Activity 3.4 - Application of SPSS to perform ANOVA - 5%**
- 4. Based on Learning Activity 4.1 - Exercise 19 and Exercise 22 on the Application of SPSS to perform Linear Regression Analysis in Lane et al (2016) Ch 14 - 5%**