

Ryerson University  
Daphne Cockwell School of Nursing  
CNUR 860 SPRING 2021 Statistics Assignment 1  
Course Leader Dr Elaine Santa Mina  
Total Marks for this assignment 10

Prepare your assignment as per APA 7<sup>th</sup> format, inclusive of a title page, pages numbered, double spaced, reference page etc.

DO NOT RECOPY Question format and  
DO NOT INSERT ANSWERS IN POINT FORM;

Reference your Salkind text appropriately. Note: all charts and graphs must have a complete title. It is not adequate to use only the variable name for a title. It is not adequate to include chart or graph embedded within a sentence with the chart or graph as the end of the sentence. Follow APA 7<sup>th</sup> for chart and graphs. Title must convey what the chart is telling the reader.

NOTE: do not use a downloaded copy of this word document as the foundation document on which you prepare and submit your paper (to do so may be considered plagiarism). Create your own new word document.

**Use of personal tutors:** you may use a tutor ONLY for the explanation and understanding of statistical principles and NOT for the completion or production of this or any assignment in part or in whole. If you cite either an instructor or tutor, you must quote as per APA (not to do so, will be considered plagiarism).

Use the C NUR accompanying 860 statistics assignment 1 and 2 excel data set and data dictionary. You may use any excel version.  
This is fictional data.

**Grading: 2.0 marks automatic deduction if APA 7<sup>th</sup> not followed,  
Assignments completed in point form will NOT be accepted for grading.**

**This is an individual assignment, not a group assignment, see course syllabus re directions to not share files, papers, or any part of your assignment with another student, in this or any other semester, as that may constitute academic misconduct.**  
**Research Scenario:**

The study participants were RNs and RPNs on an inpatient medical unit in a suburban hospital. As a component of the study, each participant completed a demographic questionnaire. In addition, Nurses were given a quiz with 10 clinical vignettes to assess their awareness of the boundaries of the nurse patient relationship and the limits of the professional nursing role. The quiz had a possible score of 0 to 10 in equal increments of 1. Analyze the participant demographic and quiz data for the variables in the questions below.

**Question A. Descriptive Analyses total for Question A section = 5 marks**

**Question A i. 2 marks (.25 for each variable includes correct level of measure PLUS rationale supported by reference)**

- a) Age
- b) Age group
- c) Gender
- d) Professional Category
- e) Employment status
- f) Self-appraisal of knowledge regarding the nurse-client therapeutic relationship
- g) Quiz scores for the vignettes on boundaries in nurse patient relationship
- h) Years of nursing experience

**Question A ii. 0.5 marks**

For the variable 'Self-appraisal of knowledge regarding the nurse-client therapeutic relationship' calculate, and cut and paste the excel outputs for the three measures of central tendency. All three measures of central tendency must be calculated and identified for full marks. (No partial marks)

**Question A iii. 1.0 marks**

For the variable 'age' calculate, and cut and paste the excel outputs for the three measures of central tendency All three measures of central tendency must be calculated and identified for full marks.

For the variable 'age group' create

- a) a frequency distribution chart
- b) a bar chart

The bins and the variables with counts per group have been created for you on excel data set. Each chart must include labels and/or a legend to identify clearly the variables and groups for full marks.

Scenario: Nurses were given a quiz with 10 clinical vignettes to assess their awareness of the boundaries of the nurse patient relationship and the limits of the professional nursing role. The quiz had a possible score of 0 to 10 in equal increments of 1.

**Question A iv. 0.5 marks**

For the variable: 'quiz scores for the vignettes on boundaries in nurse patient relationship, calculate the 3 measures of central tendency AND 3 measures of variability and cut and paste the excel outputs. You must be clear in your answer

which measures are for central tendency and which are for variability to get full marks

Discuss why there are, or are not, extreme values using measures of central tendency and variability to support your rationale discuss (interpret) the central tendency and variability for this variable, including which measure of central tendency is most meaningful and why. If there are extreme scores, identify scores that are extreme.

**Question A v. 0.5 marks**

For the variable ‘years of nursing experience’ calculate the 3 measures of central tendency AND 3 measures of variability and cut and paste the excel outputs. You must be clear in your answer which measures are for central tendency and which are for variability to get full marks

Discuss (interpret) the descriptive statistics for this variable including why there are or are not extreme values using measures of central tendency and variability to support your rationale, including which measure of central tendency is most meaningful and why. If there are extreme scores, identify scores that are extreme. (Interpretation = what does this data analysis tell us so far about this sample)

**Question A vi. 0.5 marks (0.25 each of a and b)**

- a) For the variables ‘quiz scores boundaries vignettes’ and ‘years of nursing experience’ create frequency distribution charts and histogram. Chart must include labels and/or a legend to identify clearly the variables and groups for full marks.
- b) Create a column or bar chart for the variables ‘gender’ and ‘staff category’ state the level of measures for each and provide the rationale with reference to support.

**Question B. Interpretation of Analyses**

**Question 4. 5.0 marks (1 mark for each of I, ii, iii and 2 marks for iv)**

- i) Discuss (interpret) the descriptive statistics for the **concept** age, as analyzed by the previous **two variables** (‘age’ and ‘age group’) for this sample.
- ii) What might be some implications with regards to the concepts ‘age’ and

‘Self-appraisal of knowledge regarding the nurse-client therapeutic relationship’ as measured by the *three (3) variables in this assignment analysis* for a) research and b) nursing practice?

- iii) With ALL analyzed descriptive data in this assignment, describe this sample, in words.
- iv) What might be some implications regarding all variables from the data analysis of this sample of nurses for a) research and b) nursing practice?