Study Questions

Chapter Eight: Quantitative Methods

1. Apply the concepts that help the researcher frame a survey design and its essential components – note that Creswell does not represent all forms of quantitative methods but focuses specifically on survey and experimental quantitative designs. pp. 155–156, Table 8.1.
2. Create, for your own research process, a similar checklist (see Table 8.1) to guide you through planning the essential elements for designing a survey method. pp. 156–166.
3. Specify and report how researchers establish/reestablish and prove validity and reliability from the survey instruments they use in quantitative research. p. 160.
4. From your understanding of response bias, analyze the steps of survey data. pp. 162–163.
5. Example 8.1, p. 165–166 in the text, demonstrates a survey method used in a journal article written by Bean and Creswell (1980. How does the article use the steps of data analysis and interpretation? pp. 162–166.
6. Create another checklist similar to the one presented in Table 8.4 which will describe the components of an experimental method plan. pp. 167–180, Table 8.4.
7. Recommend the process for determining participant roles in survey designs. How does the label of random or nonrandom selection of participants affect the experiment? Explain which you would use and why. pp. 168–169.
8. Judge the use and importance of experimental procedures that provide a diagram or figure as the focus of the research. Study and compare examples 8.2–8.5 and suggest which of these figures might help your own experimental design. pp. 170–174, Examples 8.2, 8.3, 8.4, 8.5.
9. Recommend a measure that can help you or any researcher understand threats to both internal and external validity. pp. 174–177, Tables 8.5, 8.6.
10. Explain how a researcher describes the procedure for “conducting the experiment.” How do the steps discussed by Borg and Gall (2006) help a researcher understand a particular form of design? pp. 177–178.
11. Observe and record types of statistical analyses used in a survey design. You might suggest or develop a table to help guide your research. p. 178.
12. Focus on and sketch a rubric for interpreting the results/interpretations of the hypotheses and research questions proposed by an experimental design. pp. 178–180, Example 8.6.