

*After reading this chapter, you will be able to*

Apply statistical tools to real research studies to analyze data from those studies

Congratulations! You have now made it through the nuts and bolts of using some very powerful tools. In this chapter, we will use your expertise to figure out the appropriate use of many of the tools you've learned about in this class. This chapter presents research hypotheses and accompanying methodologies of six published studies. After each presentation, we will dissect the data the researcher collected and figure out what statistical tools are appropriate to use in that research. Throughout this chapter, we will highlight specific statistical tools, their accompanying chapters, and where appropriate, specific page numbers in the book that can refer to if you want to review and refresh yourself on specific information.

After reading about these six research studies, there will be descriptions of three more research studies that will provide you with an opportunity to act as a "statistical consultant" to help determine which statistical tool(s) are needed to test the research hypotheses offered. After each one of these three research studies will be a series of questions for you to answer to help you decide on the appropriate statistical tool for each study.