

Software output is required for this assignment.

1. 4.72 Concussions and Brain Size. In this exercise, we test for evidence that average brain size is larger in football players who have never had a concussion (*FBNoConcuss*) than in football players with a history of concussions (*FBConcuss*). The data are in *FootballBrain2* where the variable *Hipp* measures brain size as the volume of the hippocampus (in μL) for each subject.

- a. Define the parameter(s) for this question, using appropriate notation.

$$\mu_{NC} - \mu_C$$

- b. Write the null and alternative hypotheses in terms of the parameter(s) above.

$$H_0 = \mu_{NC} = \mu_C \quad \text{or} \quad H_0 = \mu_{NC} - \mu_C = 0$$

$$H_a = \mu_{NC} > \mu_C \quad H_a = \mu_{NC} - \mu_C > 0 \quad H_a: \mu_{NC} - \mu_C$$

- c. Use *StatKey* to find the value of the relevant sample statistic. Write it using correct notation.

$$\bar{x}_1 - \bar{x}_2 = 724.600$$

- d. Use *StatKey* to find the p-value for your hypotheses. Include a screenshot of the randomization with tail area with your homework submission, and write the p-value here.

$$P\text{-value} = 0.00 = 0.0013 \sim 13\%$$

- e. Interpret the p-value in the terms of random chance, and in the context of brain size and concussions.

We have statistically significant evidence p-value at 0.00. The average brain size is larger in football players who have never had a concussion. (we have a 0.0013% chance of getting a statistic as or more extreme than the one we got - assuming that the null hypothesis is true.)

State the conclusion of the test in context, using nontechnical language. Include wording about the strength of the evidence against H_0 .

Because $p < .05$, we reject the null hypothesis and conclude that football players without a concussion have a larger average brain size than football players with a concussion.

Elementary Statistics 12th Homework Answers

G Thomas



Elementary Statistics 12th Homework Answers:

This book delves into Elementary Statistics 12th Homework Answers. Elementary Statistics 12th Homework Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Elementary Statistics 12th Homework Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Elementary Statistics 12th Homework Answers
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 - Chapter 3: Elementary Statistics 12th Homework Answers in Everyday Life
 - Chapter 4: Elementary Statistics 12th Homework Answers in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, the author will draw a conclusion about Elementary Statistics 12th Homework Answers. The final chapter will summarize the key points that have been discussed throughout the book.
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