

Statistics Homework 2

Mr. Grant

July 10, 2017

Due Date: Tuesday, July 11th

1. Complete all 6 chapters of Datacamp's "Introduction to R." Email Mr. Grant a screenshot of the 6 completed checkmarks at SLGstats@uw.edu.
2. Email Mr. Grant with your name, your height, your shoe size (say whether it is men's or women's), and the state that you are from.
3. You and your friend decide to play Texas Hold 'Em poker, so you buy some fake cigars and a standard 52-card deck of cards. In a round of Texas Hold 'Em, everyone is randomly dealt a hand of 2 cards to start out. Answer the following questions, and you're on your way to becoming a gambling expert!
 - The first card is dealt to you. What is the probability that it is a "face card" (a Jack, Queen, or King)?
 - Your first card is a Jack. What is the probability that the second card you are dealt is a Jack as well?
 - The cards have been dealt, and you and your friend each have 2-card hands. You see that you have a pair of Kings—a good hand. The only way your friend could have as good of a hand as you or better is if they have two Kings or two Aces. Given that you can see your hand, what is the probability that your friend also has two Kings? What is the probability that they have two Aces? What is the probability that their hand is at least as good as yours?