

Stat 2153 - Statistical Methods

Written Assignment 7 - Due 2015.07.19

Directions: Please answer the following question in complete sentences. Be sure to label all geometric objects in any illustrations (if any). I will accept an answer in a scanned image format, as a pdf, or as a picture taken and sent from your awesome smart phone.

Once again, it is time to roll the dice! Take your favourite n -sided dice, and get ready to test its overall fairness. You are to roll your dice 250 times and reproduce Example 10.3 with $H_0 : p_1 = p_2 = p_3 = \dots = p_n$ and H_1 : some (or all) of the $p_n \neq 1/n$. Next, attempt (and describe fully how) to make your dice unfair, and redo the exercise, including the hypothesis test.

Comments: Yes, this could indeed take some time again, but it won't take that long, so don't cheat! Once again, I want a picture sent via email of you actually rolling the dice, with a piece of paper next to the dice which has the date, your name, and which class/section you are in!