Name: Student 4 ID:

8. You want to conduct a simulation to answer the research question. To test the hypotheses above, you set the one-proportion applet to have the following values: [1pt each]

   a. Probability of heads: .69

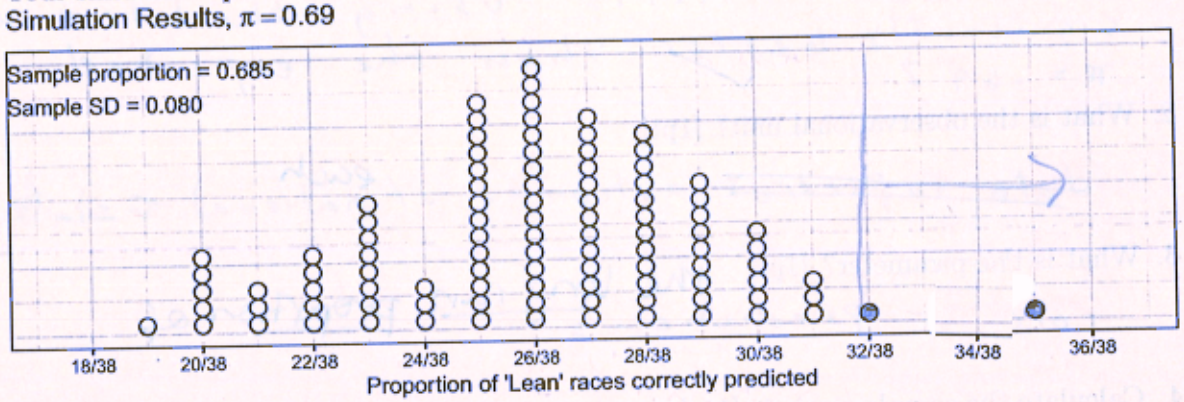
   b. Number of tosses: 539

   c. Number of repetitions: 100

9. In this simulation, what does a heads represent? [1pt]

   ~~a set of~~ each time the prediction was correct

10. Your simulation produces the data shown in the plot below:



   a. What does a dot represent in the plot? [2pt]

   a single set out of 100 simulations

   b. On the plot, draw one or two vertical line(s) to indicate the cutoff(s), and an arrow(s) indicating the direction(s) of H_A. Shade in the dots corresponding to the simulation p-value calculation. [3pt]

   c. Calculate the simulation p-value: [2pt]

   $\frac{2}{100} = .02$ p value = .02

   d. What is your conclusion? [3pt]

   with a p-value .02 we have moderate evidence to reject the null hypothesis.