

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: 0.84

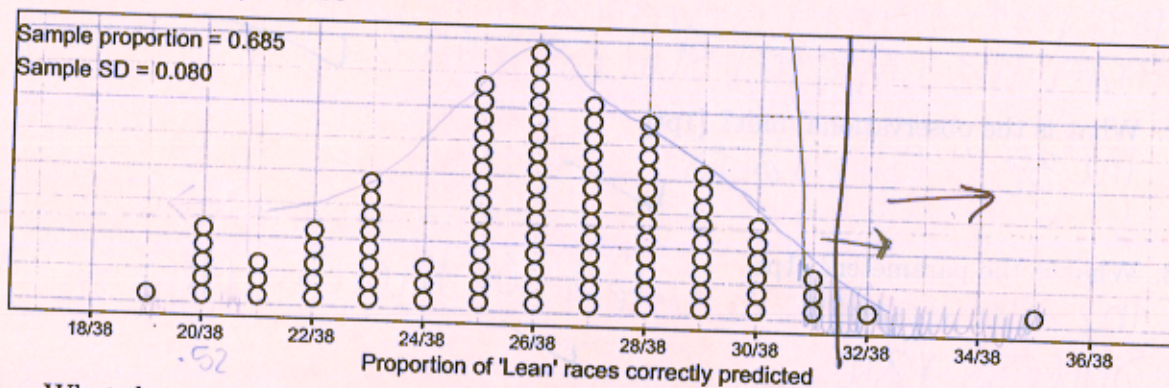
b. Number of tosses: 38

c. Number of repetitions: 100

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

predictions that are significantly better than the expected success rate.

10. Your simulation produces the data shown in the plot below:  
Simulation Results,  $\pi = 0.69$



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

A correct prediction.

- 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]

0.42

- d. What is your conclusion? [3pt]

fail to reject the null hypothesis.