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]

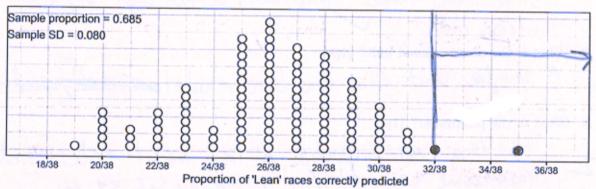
a. Probability of heads: 0.69

b. Number of tosses: 38

c. Number of repetitions: 100

9. In this simulation, what does a heads represent? [1pt] A successful prediction from the light model in a sample

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]

sample case of correct lite model predictions in a sample

- 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]

d. What is your conclusion? [3pt]

With a p-value of 02 it is loner than 0.05 therefore to can be rejected and the Lite model predicts significantly better at a rate greater than 0.69,