

Homework Answer: Page 571, #39

39. S: $H_0: p = 0.37$

vs. $H_a: p > 0.37$, where p = true proportion of all students who are satisfied with the parking situation after the change.

P: One-sample z test for p .

Random: Random sample

10%: The sample size of 200 is less than 10% of the population of 2500

Large Counts: $200(.37) = 74$ which is greater than 10

and $200(.63) = 126$ which is greater than 10

D: $z = 1.32$

P-value = 0.0934.

C. Because the p-value of $0.0934 > \alpha = 0.05$, we fail to reject H_0 . We do NOT have convincing evidence that the true proportion of all students who are satisfied with the parking situation after the change is greater than 0.37.