Stat 1350, Quiz #11, Fall 2014

Name

Instructions: Answer each question completely. Show all work for any computational questions.

1. In 2006, 75.9% of first-year college students responded to a national survey said that they used the Internet frequently for research or homework. Administrators at a particular university decided to survey their own students to see if they were typical or used the Internet more often. They find that 168 of 200 students of their sample said they used the Internet frequently for research or homework. Conduct a hypothesis test to see if there is enough evidence to think that their students use the Internet more often. Use a 0.05 significance level.

 $H_a: \ p > .759$

What is the P-value you obtain?

p=.003699116

1 Prop 2 Test Po=. 759 X = 168 N=200 Prop > P6

Do you reject the null hypothesis or fail to reject the null hypothesis?

 $H_0: p = .759$

reject to

2. How can a result be statistically significant without being practically important?

very large sample sizes can make small defferences unlikely statistically, but may not be large enorgh to matter because small differences will fend to matter dette in the real world.

3. Describe an example of a situation in which using a lower significance level than 0.05 would be better.

if there is more danger in being wrong

for notance, if you thenk the water negat be radioactive, you might want to be less likely to make a mistake Than 1/20 (5%)