Math 140		Quiz 7	Name:	
1.	1. TRUE or FALSE?			
T	F	ne numerical value must be the same in both hypotheses.		
T	F	The hypotheses are statements about the population parameter.		
T	F	ne point estimate, or sample statistic, is our evidence in hypothesis testing.		
T	F	The p-value shows how surprised we are by the value of the test statistic, assuming that the null hypothesis is true.		
T	F	If we can reject the null hypothesis, then we can say the sample results are statistically significant.		
T	F	p-value is NOT the probability that the null hypothesis is true.		
T	F	We never say we accept the null hypothesis; w	re say we fail to reject it.	
T	F	If a 95% confidence interval contains the claim cannot reject the null hypothesis at the 5% sign	<u>*</u>	
2.	using examination 1308 h	UCLA Internet Report (February 2003) estimated that roughly 0.75 of online homes are still g dial-up access, but claimed that the use of dial-up is declining. Is that really the case? To nine this, a follow-up study was conducted a year later in which out of a random sample of 8 households that had internet access, 804 were connecting using a dial-up modem. To be the proportion of all U.S. internet-using households who have dial-up access.		
	a. W	a. Write the null and alternative hypotheses in symbols:		
	H_0	: H _a :		
	b. Which one of following is correct?			

A. It is not safe to use the z-test for p since np₀ is not large enough.
B. It is not safe to use the z-test for p since n(1-p₀) is not large enough.
C. It is not safe to use the z-test for p since the sample is not a random sample from the entire

population (or cannot be considered as one).

D. It is safe to use the z-test for p.

c. The test statistic is z = -11.3

This means that

- A. If p is really still .75, the sample proportion we got is 11.3 percentage points below it.
- B. If p is really still .75, the sample proportion we got it 11.3 standard deviations below it.
- C. If p is really still .75, the sample proportion we got is 11.3 percentage points above it.
- D. If p is really still .75, the sample proportion we got it 11.3 standard deviations above it.
- d. The p-value is so small that the calculator tells us that it is essentially 0. State you conclusion in context.