Project 9: One Proportion Tests

If all conditions are satisfied, then perform the standard one proportion test.
If one or more conditions fail, use the binomial calculator to compute the P-value.

1) A recent survey showed that 23 out of 72 households that were headed by a single female had a computer at home. Use this survey to test the claim that less than half of all households that are headed by a single female have a computer at home. Use the 0.05 level of significance.

2) A counselor claims that more than 30% of college students have divorced parents. A random sample of 40 college students revealed that 18 had divorced parents. At the 0.01 level of significance, test the counselor's claim.

3) Test the claim that 60% of all registered voters plan to vote in the next election at the 0.05 level of significance. A survey of 500 registered voters revealed that 334 of them planned to vote in the next election.