1) A recent study compared the proportions of young women and men who use Instagram. A total of 537 young women and 532 young men were surveyed. 328 of the women and 234 of the men stated that they use Instagram. construct and interpret a 95% confidence interval for the difference in the proportion of all young women and young men who use Instagram.

2) Are young women and men equally likely to say they use Instagram? Recall the data from our earlier example: 328 out of 537 women (61.1%) and 234 out of 532 men (44.0%) use Instagram. Perform a significance test to see if the difference is large enough to lead us to believe that the population proportions are not equal.

3)	The adviser of an ecology club at a large college believes that the group consists of 10% freshmen, 20% sophomores, 40% juniors, and 30% seniors. The membership for the club this year consisted of 14 freshman, 19 sophomores, 51 juniors, and 16 seniors. At α =.10, test the adviser claim. (Create a table)