## STAT 217: Quiz 15

1.	Identify (	each	of the	following	as a	chi-squared	test	of	independence	or a	chi-squared	test	of
	homogen	eity.											

- A sample of 36 students was selected and were then categorized according to gender (M,F) and political party preference (Democrat, Republican, Independent).
- To determine if there was an association between race and opinions about schools, researchers surveyed 3 randomly selected groups of parents (black, hispanic, and white) and asked them Are high schools in your state doing an excellent, good, fair or poor job or dont you know enough to say?.
- In a group of 100 18-year-olds, 50 were randomly assigned to become smokers and 50 were randomly assigned to be non-smokers. Thirty years later, each person was identified to have "lung cancer" or "no lung cancer".
- 2. Suppose 30 of the 50 smokers in the last problem had lung cancer, and only 5 of the 50 nonsmokers had lung cancer.
  - (a) Make a contingency table for these data.

(b) Sketch a stacked barchart for these data.