Show all necessary work and place your answers on the spaces provided.

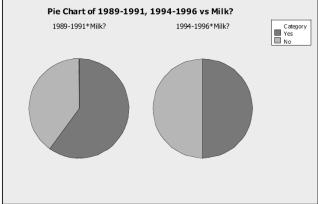
## Drinking Milk.

Has the percentage of young girls drinking milk changed over time? The following table is consistent with the results from "Beverage Choices of Young Females: Changes and Impact on Nutrient Intakes" (Shanthy A. Bowman, *Journal of the American Dietetic Association*, 102(9), pp. 1234-1239):

Drinks Fluid Milk

Nationwide Food Survey Years				
	1987-1988	1989-1991	1994-1996	Total
Yes	354	502	366	1222
No	226	335	366	927
Total	580	837	732	2149

- 1. Find the following:
  - a. What percent of the young girls reported that they drink milk?
  - b. What percent of the young girls were in the 1989-1991 survey?
  - c. What percent of the young girls who reported that they drink milk were in the 1989-1991 survey?
  - d. What percent of the young girls in 1989-1991 reported that they drink milk?
- 2. What is the marginal distribution of milk consumption?
- 3. Do you think that milk consumption by young girls is independent of the nationwide survey year? Use statistics to justify your reasoning.
- 4. Consider the following pie charts of the a subset of the data above:



Do the pie charts above indicate that milk consumption by young girls is independent of the nationwide survey year? Explain.