1. Consider data from a retrospective study on the relationship between daily alcohol consumption and the onset of esophagus cancer.

	cancer	no cancer
daily alcohol consumption $> 80g$	71	82
daily alcohol consumption $< 80g$	60	441
Total	131	523

- (a) Compute an estimate of the odds ratio.
- (b) Interpret the direction of the association, stated in the context of the problem.
- (c) What assumption is necessary for the sample odds ratio to serve as an estimate of the relative risk?

2. The following table summarizes the responses of n = 91 couples to the questionnaire item "Sex is fun for me and my partner."

		Wife's Rating		
Husband's Rating	never or occasionally	fairly often	very often	almost always
never or occasionally	7	7	2	3
fairly often	2	8	3	7
very often	1	5	4	9
almost always	2	8	9	14

- (a) What type of sampling was used in collecting the above data? What characteristic do the above variables have that allows us the potential to describe the association with a single parameter? In general, how many parameters would be needed to describe the association?
 - (b) Compute $\hat{\gamma}$. Provide an interpretation of your result, stated in the context of the problem.