Stat 257.01 Fall 2004
Assignment #8

This assignment is due at the beginning of class on Monday, November 8, 2004. You must submit all problems that are marked with an asterix (*).

You are encouraged to form study groups and collaborate with others on this assignment. However, the final work you submit must be your own. A piece of advice: *the assignments are worth very little in the computation of your final grade. It is better to suffer through not understanding something now, rather than copying from a friend just for the sake of completion. You will not have that luxury on the exams.* YOUR ASSIGNMENT MUST BE STAPLED AND PROBLEM NUMBERS CLEARLY LABELLED. UNSTAPLED ASSIGNMENTS WILL NOT BE ACCEPTED! DO NOT CROWD YOUR WORK. DO NOT WRITE IN MULTIPLE COLUMNS.

1. * Do the following exercise from Scheaffer, et al.

- Exercise #6.25. Do both a separate ratio estimator and a combined ratio estimator. Find the estimated variance for each. Then compute the relative efficiency of these two estimators. Is there sufficient evidence to favour one over the other?

2. * Do the following exercise from Scheaffer, et al.

- Exercises: #7.1, 7.4, 7.11, 7.12