Hints: Homework 1

Stat 318, Spring 2003

1. 1.19 (b): To count the number of subcommittees with five members (combination) covering all the four ethnic groups, note that one and only one ethnic group provides two members, and all the other ethnic groups provide one member each. Label the groups as group 1, 2, 3, 4. Assume that group 1 provides 2 members and the other groups provide 1 member, compute the number of such combinations. Repeat the computation assuming each of the other groups provides 2 members. The sum of these four numbers of combinations is the total number of subcommittees covering all the ethnic groups with five members.