Statistics 23, Section 1, Homework # 1

Due: Thursday, August 26, 1999

Name:_____

Goal: Try out various ways of sampling to determine the proportion of males at UNC. For each type, gather your own sample of 25, report on this sheet the sample proportion, and write down the sample proportion somewhere else for later use.

1. The 25 people sitting closest to you in class. Fill out the following worksheet with M's and F's for the 25 closest people.

_____ Number of MALES   _____ Sample percentage of MALES

2. Stand at a doorway and tally the first 25 people that walk through (You choose the doorway here, OK to be crazy like door to a men's dormitory, or you may want to try as hard as you can to pick a "representative door"). Use the tally sheet below.

Males: _____   Females:_____

_____ Number of MALES   _____ Sample percentage of MALES

3. Write down the names of the first 25 students at UNC that jump into your head (friends, classmates, roommates, athletes, anybody):

1. _____   2. _____   3. _____
4. _____   5. _____   6. _____
7. _____   8. _____   9. _____
10. _____   11. _____   12. _____
13. _____   14. _____   15. _____
16. _____   17. _____   18. _____
19. _____   20. _____   21. _____
22. _____   23. _____   24. _____
25. _____

_____ Number of MALES   _____ Sample percentage of MALES

4. Draw a sample from the student phone directory, using a randomization method that you invent. You can use a computer random number generator (see the class home page for how to do this in EXCEL), but should ensure each person is equally likely. (Think carefully here. Don't just open to whatever page it falls open to, because then pages in the middle are more likely. Don't just point your finger arbitrarily, because again people in the middle of the page are more likely.). State here the details of your method.

Males: _____   Females:_____

_____ Number of MALES   _____ Sample percentage of MALES