Use the dataset **littlesleep.dta** for this assignment. This dataset has information on 239 people’s sleep behavior in 1981. You can use Stata’s built-in “density function” commands or simple regressions to test hypotheses. Test the following hypotheses at the 90% and 95% confidence levels:

1. According to conventional wisdom, people should try to get an average of 8 hours of sleep each night. Test the hypothesis that the average of the variable **slpnap81** is equivalent to 8 hours per night.

2. Does this differ by sex? Test the hypothesis that the average sleep of men and women is the same.

3. When a couple is about to give birth for the first time, all their friends with children make jokes about how much less sleep they’re going to get. Test the hypothesis that a person with young kids gets less sleep than a couple with no young kids. (Note: I’m asking for one sided test.)

4. I was up for an hour last night with my three-year-old son, who had a bad dream; the night before, I was up for an hour with my one-year-old daughter, who screams in pain because she’s cutting teeth. It seems that this is fairly typical, unfortunately. Test the hypothesis that the difference between the sleep of people with and without kids is 1 hour per night.

5. It puzzles me that only 63% of the men in the sample are married, while 81% of the women are. (Think about it: since most marriages are between one man and one woman, there should be equal numbers of married men and women in the population. Any discrepancy would suggest that my dataset is not a random sample of the population.) Test the hypothesis that these proportions are the same, and that they differ only due to randomness.

6. I would expect that people who don’t work are likely to sleep more than people who do. Test this hypothesis. (You’ll have to create a dummy variable in order to do it.)

7. Is the proportion of men who don’t work the same as the proportion of women who don’t work? Test this hypothesis.

8. Is the variance in the amount of sleep that men and women get the same?