

HOMEWORK 3

STAT 201-502

Lecture 4 & 5 Material

- 1 It is believed that smokers may have a more difficult time quitting smoking if they live with another smoker. How can an experiment explore the effects of Zyban with a placebo on quitting smoking with subjects in different living situations? Suppose the researchers split the subjects into two groups: those who live with another smoker and those who do not live with smokers. Within each group, the subjects are randomly assigned to take Zyban or a placebo. In this study 250 of the 429 study subjects live with nonsmokers and 179 live with another smoker.
 - a. What are the explanatory and response variables?
 - b. Are there any blocking factors?
 - c. How many factors are there? How many levels for each factor?
 - d. Draw a diagram of the experiment design.
- 2 Do textbook problems 3.4, 3.25, 3.37, 3.47a, 3.81, 3.84, 3.92