1. Explanatory variable, response variable, confounding variables (Discussion, Problem 2.2B)

2. Observational study, experimental study (Discussion, Investigation 2.3)

3. Random assignment and experimental design (Investigation 2.4, Randomizing Subjects applet)

Homework problems to turn in, February 21

1. The National Electronic Injury Surveillance System (NEISS, pronounced 'nice'!) collects data from a random sample of hospital emergency rooms. A team of researchers studied 161 people in the system that had injuries from in-line skating. Wrist injuries were the most common.

   (a) 53 of the people were wearing wrist guards and 6 of these had wrist injuries while of the 108 that were not wearing wrist guards, 45 had wrist injuries. Test the hypothesis that the rate of wrist injuries is the same in the populations that these two groups are from. (Use the simulation method of Investigation 2.1 to compute the appropriate p-value.)

   (b) Describe carefully the populations and parameters that your inference compares.

   (c) Given your answer to (b), what is your conclusion stated in a way that a non-statistician can understand.

2. Do Practice Problem 2.5B from page 121.