Assignment 4  
Due Monday, February 22

Multiple-page homework must be STAPLED when handed in.

Exercises: (P = Problems, TE = Theoretical Exercises)
Chapter 3:   P  74, 78*, 81*, 84  
           TE  13*
Chapter 4:   P  1, 2, 3, 4*, 5, 6, 7 (a)*, (b)–(d), 8 (a)*, (b)–(d)

*Problems marked with an asterisk will be collected and graded. Remember to explain how you arrive at your answers.

Hints and instructions:  (a) For problems involving repeated independent trials it is frequently useful to condition on the outcome of the first trial. In using this principle, however, you must remember that a “trial” corresponds to some fixed experiment—different trials must correspond to the same experiment. How then would you use this principle in 3.74 or 3.78?
(b) For 3.81: think about gambler’s ruin.