

Assignment 3
Due Wednesday, October 3

Exam 1: The first exam will be **Monday, October 8**. It will cover all our work through the class of Monday, October 1, that is, through Chapter 3. (Sections 4.1–4.3 will *not* be on the exam, although the original syllabus indicated that they would be.)

Exercises: (P = Problems, TE = Theoretical Exercises)

Chapter 3: P 1, 7, 8, 9*, 19*, 22, 24, 33*, 44, 47*, 50, 69, 70*, 73
 TE 7, 12*

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

With two exceptions, these problems coincide with those of the same numbers in the fifth edition of our text. **Problems 70 and 73 are different in the two editions.**

Hints and instructions: Ch. 3: P 22. The assumption of (a) also holds in (b).

For problems like number 70 (and others in this assignment) which involve repeated trials it is frequently useful to condition on the outcome of the first trial, or (in a game) on the outcome of the first player's first turn.

Please note: There was an error in the distributed solutions for assignment 1. The correct answers for Chapter 1, P 19, parts (a) and (b) are: (a) $\binom{8}{3} \left[\binom{4}{3} + 2\binom{4}{2} \right]$. (b) $\binom{6}{3} \left[\binom{6}{3} + 2\binom{6}{2} \right]$.