Multiple-page homework must be STAPLED when handed in.

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

Chapter 2:  
P 40, 42*, 48, 55  
TE 19*

Chapter 3:  
P 7, 8, 9*, 13, 24, 26*, 37, 48, 51, 54, 73*  
TE 7*

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

**Hints and instructions:** Ch.2: P 40. You should assume that the owner of a broken set chooses a repairer at random.

48. Assume that a birthday is equally likely to fall into any of the twelve months.

55. Use inclusion/exclusion (Proposition 4.4).

Ch. 3: P 24. The assumption of (a) also holds in (b).