1. How many integers between 1 and 1500 are not divisible by one of 5, 7 or 11?

2. If in your dorm there are 50 people and 35 of them play sports, while 40 of them play video games and 7 of them play neither, how many people play both sports and video games?

3. Suppose you have 2 "smalldecks" of cards, that is, normal decks of 52 cards with all 2’s, 3’s, and 4’s removed. What is the probability of an exact match in cards, playing the card matching game with two "smalldecks" of cards?

Chapter 5, pages 95-97, problems 5.3, 5.6(a),