Name:	Math 130 Day 7 In Class Worksheet
Date:	More Difficult Probability Problems / Section 5.5: Counting Techniques

1. Suppose you are going to bet on red on roulette 3 times in a row. What is the probability that you win exactly 2 times?

2. Suppose you are going to draw 3 cards from a deck of cards one at a time without replacement. What is the probability that exactly 1 of the cards is a king?

3. At Chop Teriyaki, you can create various teriyaki bowls. In order to create a bowl, you need to first choose a type of rice, then a type of meat, then finally if you would like avocado on the bowl or not. Your options are...

Rice: White or Brown Meat: Chicken, Beef, or Both Chicken and Beef Avocado: Yes of No

a) How many teriyaki bowls can be made in total?

b) How many teriyaki bowls can be made that have beef in them and no avocado?

c) If a teriyaki bowl is randomly selected, what is the probability that it contains beef and no avocado?