Name: Date:	Business Data Analysis 201-316-VA
In Class Exercise #9: Cour	nting and Probability Distributions
1. Balls in urn An urn contains 10 balls that are identical education balls are drawn from the urn, one after another than the urn and urn are identical educations.	xcept for color: 4 green balls, 5 blue balls and 1 red ball. Two ther and without replacement.
	obabilities to map out the possible results for the two draws exact fractions. Check that the probabilities sum to 1.
	drawn. Use your answer in part a) to create a probability exact fractions. Check that the probabilities sum to 1.
(c) Find the mean and standard deviation	for x from part b)

2. Deck of Cards

A standard deck of 52 cards contains 4 suits (heart, diamonds, clubs, spades), and each suit has 1 card of each of the 13 ranks (10 number cards, and 3 face cards: J, K, Q)

Answer in fractions, and show your steps. When drawing cards without replacement from the deck...

(a) What is the probability that when drawing 3 cards, all 3 are hearts?

(b) What is the probability that when drawing 2 cards, one is a heart and one is a spade?

(c) In a certain game, you draw 2 cards, and you will win if both are hearts or both are faces. What is the probability of winning?

3. Counting

An activities club has 12 members.

(a) How many different committees can they make consisting of 4 members?

(b) How many different committees can they make consisting of 1 president, 1 vice-president, 1 teasurer and 1 secretary?