Name:	
1.	A survey of high school students indicated that 33% are in a relationship, 25% are involved in sports, and 11% are involved in both. Use the information to answer the following questions.
	(a) What is the probability that a student is involved in a relationship given that they're involved in sports'
	(b) Is being in a relationship independent of being involved in sports? Justify your answer using probability (regardless of your own personal theories!).
2.	A company has two suppliers for electrical components. China ships 73% of the electrical components used by the supplier. The probability that the component will be defective given that it was shipped from China is 0.06. What is the probability that a randomly selected component received by the supplier will ship from China and be defective?
3.	You have a standard deck of 52 cards. Recall that a deck of cards has four suites (hearts, diamonds, spades clubs), each with thirteen values (2-10, J, Q, K, A). Find the probability that you draw two aces in a row without replacing the first ace.
4.	Your Pie, a great pizza place in Clemson, has 10 vegetable and 8 meat toppings to choose from. You have a coupon for a free pizza with five toppings. Use this information to answer the following questions. (a) How many ways could you choose five different toppings ? (Hint: Use the Combinations Rule.)
	(b) How many ways could you choose five different vegetable toppings?
	(c) If you randomly select toppings, what is the probability that you choose five different vegetable toppings? Round your answer to four decimal places. (Hint: Use your answers from parts a and b.)