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 <b>given</b> that they're involved in sports?
	(b) Is being in a relationship <b>independent</b> 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 <b>given</b> 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 <b>and</b> 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 <b>in a row</b> 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 <b>different toppings</b> ? (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 <b>probability</b> that you choose five different vegetable toppings? Round your answer to four decimal places. (Hint: Use your answers from parts a and b.)