Name:	Math 130 Day 6 In Class Worksheet
Date:	Probabilities of ANDs, NOTs and AT LEAST ONEs

1. Suppose you randomly select a card from a standard deck of poker cards. What is the probability that you select a card that is both red and a face card?

2. Suppose you randomly select 3 cards from a standard deck of poker cards <u>with replacement</u>. What is the probability that the first two are black and the last one is a diamond?

3. Suppose you randomly select 3 cards from a standard deck of poker cards <u>without replacement</u>. What is the probability that the first two are black and the last one is a diamond?

4. Suppose you randomly select a card from a standard deck of poker cards. What is the probability that the card you selected is not a face card?

5. Suppose you randomly select 4 cards from a standard deck of poker cards <u>with replacement</u>. What is the probability that at least one of them is a heart?

6. Suppose you randomly select 4 cards from a standard deck of poker cards <u>without replacement</u>. What is the probability that at least one of them is a heart?