LAST	NAME (Print):FIRST:	
Statist	tics 111 Quiz 4	
1. Ren	nove all the clubs from a standard deck of cards.	
	. What is the probability of getting three red cards, when drawing with rep	lacement?
	. What is the probability of getting three red cards, when drawing without	replacement?
	. What is the probability that the sixth card is a diamond, given that the fir	st five cards (without
	replacement) are spades?	
2. Vulo	can IQs are normally distributed with mean 200 and variance 100.	
	. Mr. Spock has an IQ of 215. What <i>percentage</i> of Vulcans are smarter?	
	Starfleet Academy only accepts the smartest 10% of Vulcans. What is the	lowest qualifying IQ?
	(Report decimals.)	
	. What proportion of Vulcans have IQs between 190 and 205?	
	What proportion of Valetails have 193 between 130 and 200.	
9	For any distribution at least what proportion of the observations li	within 16 standard
	For any distribution, at least what proportion of the observations lie iations of the mean?	within 1.0 standard
4	Assume a person is equally likely to be born on any day of the week. W	hat is the probability
that	t one or more people were born on the same weekday in a group of four?	
5. List	all (and only) true statements. (Up to 4 points)	-
Α.	. A. N. Kolmogorov was a bastard.	
В	. A finite partition is any set of events A_1, \ldots, A_n such that $\sum i = 1^n A_i =$	1.
	. Bayesians treat probabilities subjectively.	
D.	. During the Great Depression, Keynes urged governments to combat un belt-tightening.	employment through