Elementary Statistics	Name:
Study Guide 13	Class:
Due Date:	Score:
Your work must be very simila	r to my notes, lectures, or videos.
Be Neat, Organized, a	$\mathbf{nd}\ \mathbf{No}\ \mathbf{Work}\ \Leftrightarrow \mathbf{No}\ \mathbf{Points}$
1 through 36. Of all 38 pockets, then	8 pockets. They are all numbered 0, 00, and re are 18 red, 18 are black, and 2 are green, ands in one of the pockets, and each pocket el twice,
(a) (2 points) what is the probabilit	ty that both balls land in a red pocket?
(b) (2 points) what is the probabilit	(a)ty that both balls land in a black pocket?
	(b)
(c) (2 points) what is the probabilit	ty that both balls land in a green pocket?
(d) $(3 points)$ what is the probabilit	(c)ty that the both balls land in a same color?
(e) (3 points) what is the probabilit	(d)ty that both balls land in a different color?
	(e)

2. You are dealt three cards without replacement from a shuffled cards.	deck of 52 playing
(a) (2 points) Find the probability of getting three red cards.	
(b) (2 points) Find the probability of getting three black cards	(a)
(c) (2 points) Find the probability of getting three cards with	(b) the same color.
(d) (2 points) Find the probability of getting three cards such all the same color.	(c) that they are not
(e) (3 points) Find the probability of getting at least one face	(d) card.
	(e)
3. Given: $P(A) = 0.4$, $P(B) = 0.5$, and $P(A \text{ and } B) = 0.3$.	
(a) (2 points) Find $P(A B)$	
(b) (2 points) Find $P(B A)$	(a)
	(b)

4.	In the game of Texas hold 'em, a player is dealt two cards (called hole cards) from a shuffled standard deck of 52 playing cards in which the order of these cards that are dealt does not matter.			
	(a)	(2 points)	Find the probability that a hand consists of two	aces.
	(b)	(2 points)	Find the probability of getting at least one ace.	(a)
				(b)
5.	that he b	he will bu ouys a shirt	that Jose shopping for himself will buy a tie is 0 a shirt is 0.3, and the probability that he will be is 0.4. Find the probability that he will buy both a shirt and a tie.	
	(b)	(2 points)	a shirt, a tie, or both.	(a)
	(c)	(3 points)	a shirt, given that he buys a tie.	(b)
				(c)

6.	The probability that Lisa passes her math class is 0.65, the probability that she passes her English class is 0.75, and the probability that she will pass her math class given that she passes her English class is 0.8.
	(a) (2 points) Find the probability that she will pass both of her classes.
	(a)
	(b) (2 points) Find the probability that she will pass neither one of her classes.
	(b)
	(c) (2 points) Find the probability that she will pass at least one of her classes.
	(c)
7.	A company has hired 10 new employees, 7 men and 3 women. The company must assign 5 of them to the morning shift, 3 of them to the swing shift, and the rest of them to the graveyard shift. (a) (2 points) Find the probability that at least one man is assigned to the swing shift? Answer in reduced fraction only.
	(a) (b) (2 points) Find the probability that at least one man is assigned to the grave- yard shift? Answer in reduced fraction only.
	(c) (2 points) Find the probability that at least one woman is assigned to the morning shift? Answer in reduced fraction.
	(c)
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