Name: _	:		Date	_ Date:	
Unit #8 Review					
In a bowl of marbles, there are 10 red ones, 6 green ones, and 8 blue ones.					
1. If a marb		e is chosen at random from the bowl, find P(red one or a blue one)?			
	2. If two m	bles are chosen at random with replacement, find P(red and a blue)?			
	3. If two marbles are chosen at random without replacement, find P(they are both red)?				
4. Mike has a drawer with 8 pairs of black socks and 12 pairs of white socks. Without looking he takes a white pair of socks out of the drawer. He does not replace it, and goes to pick another pair. What is the probability that the next pair he takes out is black? In a survey of 450 people, 200 of whom are female, it was found that 225 prefer chocolate ice					
		ales. Use the table to an	swer the questions be		
Vanilla		Males 151	Females 74	225	
Chocolate		99	126	225	
	SHOCOIGIO	250	200	450	
Find the	probability :	<u>that:</u>			
	5. The person likes chocolate.				
	6. The person likes vanilla, given they are male.				
	7. The person likes vanilla or is a female.				
	8. Are being a male and liking chocolate independent events?				
	9. The probability of a randomly chosen gym student is playing basketball is 0.30. The chance that a gym student plays both basketball and football is 0.05. The chance that a gym student plays football is 0.25. What is the probability that a randomly chosen gym student plays basketball or football?				

10. Assume that the following events are dependent: The probability that a high school student eats breakfast is 0.8. The probability that a high school senior will eat breakfast and get over 6 hours of sleep is 0.2. What is the probability that a high school senior will get over 6 hours of sleep, given that the person ate breakfast? 11. A bag contains 5 gray tiles and 2 blue tiles. You reach in the bag and pick a blue tile. Without replacing it, what is the probability that your second pick will be gray? 12. $\frac{3}{4}$ of you friends babysit for extra money. $\frac{2}{3}$ of your friends babysit and pet sit. What fraction of your friends pet sit given that they babysit? 13. Kate has a 45% chance of making an A on her next Algebra test and a 55% chance of making an A on her economics test. What is the probability that she will make an A on both her Algebra test and economics test? Fill out the Venn diagram to the right, and answer the questions below: Of 500 students surveyed, 300 were male. 20 were left-handed. 12 were male and left-handed. 14. P(male or left-handed) 15. P(left-handed | male)

16. P(right-handed and female)