Name:		Per: _	Per: Date:			
Sei	rafino • Precalculus S2					
8	3C Probability			Got Sick	Didn't Get Sick	Total
	Skills Check / Quiz Review		Ate burritos	8	5	13
1.	A company had 52 people at a conference and served burn		Didn't eat burritos	6	33	39
	Then, a bunch of people got sick. We're trying to figur was the burritos. If you picked someone at random from		Totals	14	38	52
	conference (<i>Please use the unsimplified ratios</i>)	and the				
a.	Odds(Someone who got sick)	d. P(Sc	meone who a	ate a burrit	o Got sic	:k)
b.	P(Someone who got sick OR ate a burrito)	e. P(So	meone who g	got sick A	te a burrito	ɔ)
c.	P(Someone who ate a burrito and got sick)	f. P(Sc	omeone got si	ck Didn't	eat a burr	ito)
	g. You decide. Are the burritos to blame? Make	an argument o	ne way or an	other.		
	Given the word: BURRITO (a-c) If one letter is selected at random (a	d-e) If <u>two</u> let	ters are select	ed, withou	t replacem	ent:
a.	P (R) d	. P(R and R) =	=			
b.	P(R R) = e	. P(R R)				
c.	P (R Consonant) *	Bonus: P(R C	Consonant)			
3.	A jar contains 14 marbles. 6 of the marbles are blue, 5	are yellow, ar	nd 3 are red.			
	You pick 2 marbles from the jar without replacement.					
	a. Find P(B \cap R)					
	b. Find P(R B)					
	c. Find P(Y, then B)					
	d. Find P(R, then R)					

	In a certain part of the world, in any somed nine is 52%, and the probability of both a pl	one's lifetime the probability of a plague is 39%, the probability of a ague and a famine is 15%.			
Are	e Plague and Famine independent or depend	ent events? Prove it.			
WI	nen someone is born, what is the probability.	, they will experience			
a.	Plague and no famine	e. Plague, given a famine will occur			
b.	Famine and no plague	f. Famine, given a plague will occur			
c.	Neither plague nor famine	g. Famine, given no plague will occur			
d.	Only ONE catastrophe (not both)				
	5. The probability it will rain Saturday is 20%. The probability it will rain Sunday is 30%. The probability it will rain on Sunday, given that it will rain on Saturday is 50%. What is the probability it will				
	a. Rain both days? b. R	ain during the weekend? c. Rain Sunday No rain Saturday?			