Using	the Hardy	-Weinber	g Equation	ns to find F	requency		
1. Determine number and frequency of each phenotype in population						Punnett square	
2. Use the frequency of non-tasters(q2) to find q.						A	а
3. Use $p+q = 1$ to find p.					A	AA (p^2)	Aa (pq)
4. Use p, q values to find genotype frequencies: $p^2 + 2pq + q^2 = 1$					а	Aa (pq)	aa(q^2)
5. Use genotype frequencies and population size to find # students/genotyype.							
6. If expected frequencies = observed frequencies then population is not evolving (no change in p, q frequency)							
	SODIUM BENZOAT			re			
		Taster		Non-Taster	Total	steps	
	# in population	11		4	15	survey the population	
	phenotype frequency				1.00	divide part by whole	
allele frequency					1.00	solve for q; then use p+q = 1	to find p
	genotype	Homozygous dominant (p^2)	Heterozygous (2pq)	Homozygous recessive (q^2)	n/a		
	genotype						
	frequency				1.00	$p^2 + 2pq + q^2 = 1$	
	# IN population				-5	frequency " total population	
	Tactor Non Tactor			Non Tastar	Total		
# in population		14		2	16	survey the population	
phenotype					1.00		
	frequency					divide part by whole; this is q^2	
	allele frequency			1.00	solve for q; then use p+q = 1	to find p	
		Homozygous	Heterozygous	Homozygous			
	genotype	aominant (p^2)	(2pq)	recessive (q^2)	n/a		
	frequency				1.00	p^2 + 2pg + g^2 = 1	
	# in population				16.0	frequency * total population	
	РТС						
		Taster		Non-Taster	Total		
	# in population	15		1	16	survey the population	
	phenotype frequency				1.00	divide part by whole	
	allele frequency	/			1.00	solve for q; then use p+q = 1 to find p	
	genotype	Homozygous dominant (p^2)	Heterozygous (2pq)	Homozygous recessive (q^2)	n/a		
	genotype frequency				1.00	p^2 + 2pq + q^2 = 1	
	# in population				16	frequency * total population	