## HyPothesis: Chi-squared Test

observed results with enpected results.

The pumpose of this text is to determine if a difference between observed data is due to chance data and empected data is due to chance or is due to a relationship between the variables you are using.

Nul hypothesis: There is no relationship

Romula. 2 = (O-E)2 E = Emperted Frequency 0 = Observed frequency (8.1. F - 3:1.3) = (c-1) (m-1) 8.176 c = no. cof! columns r= no. of. rows Table value: to be calculated from chi-square table. if adaptated value / jable value, hypothesis accepted. ... If calculated value > Table value, hypothesis rejected.

	0 17-7 % 121 -21-2				
$E_1 = .626 \times 213 = 112.143$	172.143	97.4	:13.4	213	
1189	-181.6	157.8	5.5	345	
F2 = 626x345	231.6	201.3	7	440	
1189 - 5 - 5'	100.5	81.3	3	191	
£3 = 626 × 440 = 231.6	626	544	19	1189	
E4 - 626 × 191 = 100.5		The h		÷	
E4 = 626 × 111 = 100.5					

[ E, = 112.143

| En = 181.6

E3 = 231.6

$$ES = \frac{544 \times 213}{1189} = 97.4$$

$$Eb = \frac{544 \times 345}{1189} = 157.8$$

$$E7 = \frac{544 \times 440}{1189} = 201.3$$

$$E8 = \frac{544 \times 191}{1189} = 87.3$$

$$E9 = \frac{19 \times 213}{1189} = 3.4$$

$$E10 = \frac{19 \times 440}{1189} = \frac{3.4}{1189}$$

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$$E10 = \frac{3}{1189} \times \frac{3}{1$$

1							
	0	E	(0-E)2	(0-E)2/E			
	14)	112.143	832.7	7.4			
	179	181.6	16.7	106.03 C			
	220	231.6	134.5	0.5			
	86	100.5	1 210.2	19.2.10/			
1	68	97.4	864.3				
	159	157.8	1.4 4 3	0.01			
	216	201.3	MN 216 3 510	J.67 Meses 10.1.c			
	101	87.3	187. 601	100112-14 Sm 38			
	4	3.4	0.3	0.1			
	7	5.5	2.25	0.4			
	4	7	9	1.2			
	4	. 3	1	0.3			
				24.05			

Calculated value = 24.05

Here these one 3 Columns & 4 rows

= 2 × 3 8%. Significance level.

7 = 6  $2_{0.05} = 12.6$ 

from table

So, 24.05 7 12.6 Table value value The hypothesis is rejected There is no eurobence cop a relationship between the egg group and their more genve inclination. 8.18 24.05 20:40 = subou botolistos) 5.1. Significance