Mathe Arigument 1						
Vaccurated	Attacked 35	Not Attacked	Total			
Not Vaccinated	333	806 908	1139			
Total	368	1114	1482			
Ving the square Test. N-a+b+c+d						
Pounda: V= (0-E)						
Ho: There is no vaccination can be regarded						
this Those is requisition non be regarded as						
preventive muning						
evidenced.						
η= 5(0-E)2 - N(ad-bc)2 (a+c)(b+d)(c+d)(a+b)						
- 1482 (35 ×806) - (308 ×3333)						
(35+333)(114)(1139)(343)						
W= 8-193× 1012 = 51-174						
1.601×10" 1-601×10"						
Dof (7-1) (c-1)						
= (2-1)(2-1)=1						
4 ² -1. (1) = 3.841						
147 / 42 (1)						
Hence Ho is rejected						

the state of	d child (clean)		196				
(2) Condition of	d contain	50	120				
clean	70		100				
Family clear	80	20	80				
Didy	35	45					
	185	115	300				
α=54, χ= ε(0-E)2							
		Eolon	ndent				
40: Two attributes ave independent							
H: Not independent.							
df = (9-1) (C-1)							
=(3-1)(2-1)=2.							
$(x_{2}^{2}(2) = 5.99.$							
Expected frequency: (RT XCT)							
Grand total)							
E	1= 120 x 18	5= 74					
300							
F12 = 100×185 = 61.66 - 61.67							
300							
$E_{13} = \frac{80 \times 185}{300} = 49-34$							
E24 - 120 × 115 = 46							
EX	THE RESIDENCE OF THE PARTY OF T	5 = 46					
Co	300	200					
F&C	$\lambda = 100 \times$	115 = 3834	†				
-	300		. ,				
E	23 = 80×11.		66				
	300	4E=	200				
		2E=	300 .				

(O-E)2 74 20 - 2t = 300 -4 €6-E)2 46 18-34 80 0.216 61.66 16 20 38.34 0-347 -18-34 336.35 35 49.34 5,454 -14-34 336.35 45 30.66 8.772 205635 14.34 4-167 205-635 6-706 Y= 50-E)2 50-E= 25.662 147 > (4/2/2) Hence Ho is rejected Guren, n=200, d=5%, 95% =? m>30, hence z test, = =1-x=0.0 0: U70.95 $\chi = 18.$ H1: U40.95 $\Rightarrow = \frac{2}{N} = \frac{18}{200} = 0.0$ Frence 251 = | 7-11 | 000 - 000 = 0.91-0.95 V 0.95 (1-0.95) [2]= -1.645 = - 2.60 Hence Hous rejected

(4) Shought 19 19 15 21 16 18 16 14 Samples 15 14 15 19 15 18 16 Ho: There if no eignificant difference HIS There is significant difference thy surviy I test X1 - EXI = 136 = 17 XI = = XX = 112 = 16 SI = (= 21)= (21)= 4.5 S22 = (= 22)2 - (22)2 = 2-857 5 S = n1517 n252 = 4.317 t= x- = 17-16 0 Vn13+1 2-07 V 1-+1 2.07 FROSIA df = 8+7-2 = 13-to1(13) = 2-160 Yes, It his strotte interval Hence Ho is accepted There is no segui frant difference