



Topic: 10.Chi square distribution for Goodness of fit

Chi- Square Test - Goodness of Fit.

The test of significance of

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experimental values and theoretical value

under some theory of hypothesis is

called as chi square test ( p2)

Test Statistics

P= \( \frac{\text{CO-E}^2}{E} \)

O-Observed frequency

E= Experted frequency = Total

Total

Total









1) The number of audomobile accident per week in a Coxtain community are as follows: 12,8,20,2,14,10,15,6,9,4. over these frequencies in agreement with the belief that accident conditions were the same during this lo week period.

E = 100 = 10.

Ho: Accident condition were the same during 10 weeks

Hi: Accident conditions were not the same.





0	E	O-E	(O-E)/E
	~	2	0.4
15	10	-2	0.4
8	10	10	6.4
20	10	-8	6.4
14	10	Õ	0.0
10	10	5	2.5
15	10	-4	0.1
9	10	-6	3.6
L	10	Beram et a	26.6





1 of: n-1 = 10-9 = 9

LOS: 5% 7

Test Statistics

 $y^2 = (0-E)^2 = 26.6 = 26.6$ Cridical value:  $\lambda = 5.90$  V = 9.

M= 16.9.

Conclusion: C.V 7.V 26.6 7 16.9

Ha rejected