Hopothesis testing procedures are designed for problems in while the probability distribution is known and hypothesis involve the parameters of the distribution.

I have do not know the incleaning distribution of the population and we wish to test the hypothesis that particles distribution of the population and we wish to test the hypothesis Value of with K-p-1 degrees of freedom where p is the imber of parameter of the hypothetized distribution estimated model. based on the chi-orrare distribution. That test procedure The The test statistic is These in observations are arranged suffram having k-class internals. The test procedure regeries a tandan strople of side in UNKnown e will repeat to the hypothesis that Jamph Harpshirs. the test statistic ted Goovern p is the hygothesized if the conce Lor = arranged in Where 6 12 Hithbutian that the the calculated R dishibutan it class. fiednessen we ampte dishibutian

is hypothesized to I follow a fossion distribution comple of h=60 pitated boards has be and the following number of defeats observed The humber of defeat in a -Xample besser diffibition. printed crant collected board

No of defects W N Observed frequency (Oi) 500

The mean of the assumed forson distribution is example is whenown and must be estimated for the sample data. The estimate of the mean (32 of (15 x 1) of (9x2) of (4x3)/60 = 0.75 estimated from in this

Jallons. may compute to the thecretical hypothetical pubability assimpted with the jte class interval. I are found as

P P (XX) (1 4 から大 24,0 0 とから

 $l_3 = \ell(x=)2$ 11 e 75 0.75 = 0.133

(1)

425.9 = 11/(124.04.03)

一十一 (X-100) () () 0.041

15

n=60 times pi ice fi= npi No of defeirts Note: or more 11 PM/MXXXIII) 1 − ρ(x ≤ 3) 1-(1,+12+13) DOX 2th.D 0. [33 0.354 X bo 0.016/ x60 公公,32 かられ かった

Sink the experted frequency in the fast 2 les Wils

No of defents 2 ( or more) , 6 21.5H 10.14 28-32 17

he degicer of freedom are K-p-1 =3-1-2000 The form of the sist of 200 Porson 1 1

Reject H. if K. 0.05, 1

11

3.84

(37-28,32)2 28.72 (15-2/200)2 3,5 (13-10-lea)<sup>2</sup> Jo-104

1 2,96

Three to = 2.94 - Koins = 3.84 we at to reject the that the distribution of defeats printed on the circuit board is possion. NO DE masle

Contigency table tests

two categorial variables used to test wheather independence a table

of Job classification Know whether the pier Cantigency table is a a company has to preference of plans ! two-way 15 Independent classification owners to

Shown he opinion of a tandom sample of 500 employees are

erangen o	NAME OF TAXABLE PARTY.	THE RESERVE OF THE PERSON NAMED IN	ristorius de la constante de l	- marining areas	and the second
	Tofal	HOWN MAKED	Salam Manter	(10% classification	
	200	40	160	4	
	29	60	140	ب	Persion p
	400	60	40	3	plan
	500	160	340	10 Pal	

iouin To classification Preference is preference is not independent of valatied verous independent of Solonied workers Vary MARROH

where diff is the observed frequency in low B W RAN and is given by he crifical varive is given by E. U \*(m-1) Fig is the expected discounty in You c Calculated 5/3 340 × 100 - 68 ) X de((P-1). Reject the iff Year? exx ex n = 340 x200 = 136 Chins babe x the column tobac 500 500 THE HOMPL () Kus Juny = Ly cd lann Y chit

23 = 160 × 200 = 64 = 22 = 160 × 200 = 64 = 25 = 160 × 200 = 64

(0)

Salaried World To classification Honly Winners (49一日) Pale (160-136)C bo-64) 136 40 (64) 160 (136) Renga U40-60-32 THO 60 64 (36) F 60 348 John John 800 160

K chit 49.63 1-1/1-M (50.0) (25°S

plans Sis Conclusion: Sinte dependent on c - 49.63 Conclude to classification KZ(0.02) = 5.991

0 were as follows for a group of students. Florite Grades in Stabistics and of COMPE bayen Simplaneously

4 2 = 8 12 + C (H)											Jam Jam		Toku 70		28		
E 294 3											ζ,	and		₹ = ₹	4	OR Grades C	
10 50 PA 2040 SP 2000 PA 2000												total?					