Vorutti. Vyhureju

Assessment - Intoro. to Stutistics
There is an assumption thest there is no
significent difference between pags and

There is an assumption that there is significent difference between pays and gives with viespect to intelligence tests core conducted on furb groups and the following are the observerion

	meun	Stundend	Size
crisals	89	U	50
Boys	82	9	120

Vallduse the clum with 5.1. los (level of significance)

Siven derer

9-I

Gods Meanot, = 89

Sundards, = 4

Jeviution

Size n, = 50

Boys Mean $\infty_2 = y2$ $5.5 \quad S_2 = 9$ $5120 \quad M_2 = 120$

Hypotheses

Ho: 11-12=0 H1: 11-12=0

 $\sqrt{\left(\frac{s_1^2}{n_1}\right) + \left(\frac{s_2^2}{n_2}\right)}$ 1 (42) + (92) V(0.32)+ (0.675) V (2.995) ~ a.23 105 = 5%. for two fulled test at 5.1. level of significant with degoice of freedom to min ((n1-1) and (N2-1), smaller one) (49, 119) = 49, contract quality

Contral rule = + 2.009 1t = 4.93 > 2.009 We stepeet Null Any porthesis there is significent difference blu boys and gloris with nespect to meligener at the sol, level of 519 ni frame

2 .			Palv Ac.	u u		
9-2	Analyze of Whenther Smerking	he below you eum	dusa es concer o	de thut		
	assegury	Drugnused as unevi	without comean	fosul		
	Smakus	220	230	550		
	non-smokers	380	640	990		
131.1	Jusul	680	910	43 90		
Ho (Will Hyporhesis): (unes 18 dependent on smoking						
	Hy (Alternate Hypothesis). Comet is not dependent on smoking Frequency = Row total x column Josel Creamed Total Esmokers, Corner = 550 x 570 = 197.17 1890 = 352.82					
2						
	L port + syruke	is, coney	= 970 XS	€ ~ 352. X2		
	Enon-Smer	ers into come	u = 990 -18	× 870 = 63718		

Calculation x2-5= (0ij - Eij] 2 Eii oc2 = (220-197.18)2 + (230-352.82) (350 - 352.82)² + (640 - 637.18) = 352.82 + (37.18) $x^{2} = u8u.8 + 91.723 + 0.194 + 7.77$ 197.14 = 352.82 + 352.42 = 637.18~ = 2,461 + 0.28 + 0.001 + 0,092 ~ \$ 2.73U Degree of breedom dt = (Number of Rous -1) x (number of column -1) = (2-1) x (2-1) of = 1 at 9 51. log, the conflicus rathe is appare ximentely 3.841 since 2734 L 3.841.

so. Null hypothesis can be rejected.

which meens with given deser,

It can be significantly comeluded

Their cancer is not dependent on

smortly.