	Part-5				
φ.	Perform	my hypo	#		
	cm-59	Mchal te	est.	esting uni	n The
		Action/ Adrenture	Romanie	Biggy	_
	18-29	141	68	Biography	
	30-44	179	159	7	213
	45-64	220	0		345
	65 Epolder		216	4	440
		86	101	4	19,
	Yotal	626	544	19	1189
*	Degrees of freedom, $df = (r-1)(c-1)$ $r = rows (= columns)$ $df = (4-1)(3-1) = 6/1$ level of significance = 5%.				
*	Expected frequency = (Row Total *				Column total)
	N=1181				
a)	18-29				
	> かいらい	on/Adren	ture = 2	12*646	= 112.1
	> Ron	nonce =	213 x544	1189	≈ 97.5
	> Romance = 213 x544 2 97.45 ≈ 97.5				
	7 Bio	graphy =	213×19	= 3.4	
			1.0		

30-44 b) 7 Achian /Adventure= 345x626=181.6 > Romance = 313 15 1 345 x 544 - 157; > Biography = 345 × 19 = 5.5 > Acison/Adventure = 440x 626 = 231.7 c) 45-64 > Romance = 544x 440 = 201.3 > Biography = 440 × 19 = 7.0 d) 65 E, older 7 Action 121 dventure = 626×191 = 100 to > Romance = 544×191 = 87.4 > Biography = 19x191 = 3.1 stalistic, Yest $\chi^2 = 2 \frac{(0-E)^2}{E}$ E= Expected Frequency 0= Outcome romable

$$X^{2} = (141-112.1)^{2} + (68-97.5)^{2} + (179-181.6)^{2} + (159-157.8)^{2} + (179-181.6)^{2} + (159-157.8)^{2} + (159$$

(vilical ralue=12.59.

$$c^{2} = 24.44$$
,
 $c^{2} > 12.59$
Rejected

No relationship between the age group and their morie genre inclination.