n =	α =%	.,		
Population				
Focus Proportion				
Sten I Identify Proce	dure.			
We want to test the	evidence against the	claim that the prop	portions of	
in the population o	.f		is the same fo	r all subcategories (1,
2	, 3	, 4	, 5	).
The null and alterna	ative hypotheses are:			
	Η <sub>0</sub> : ρ <sub>1</sub>	$= \rho_2 = \rho_3 =$	= =	
	H <sub>A</sub> : On	e set of prop	ortions are not eq	ual.
	Eitł	her $\rho_1 \neq \rho_2$ and	/or $ρ_1 ≠ ρ_3$ and/or $ρ_3$	$\neq \rho_2$ and/or and/or
Step II Check Condit	ions:			
*	: A		was cor	nducted to insure every member
of the population was eq	ually likely to be selec	cted.		
*: (1	1) The lack of replacen	nent is not a proble	em in this case because the	number of subjects in the population is more
than times the sample	e size. (2) No expected	d counts were less	than, and 80% or mo	re of the expected counts were or more.
Step III Perform Pro	cedure:			
df (degrees of fre	edom) =			
Expected Counts	If $\rho_1 = \rho_2 = \rho_3 = \_$	=	<b>Observed Counts</b>	:
1		(X	%) 1	
2		(X	%) 2	
3		(X	%) 3	
4.		( X	%) 4.	
5.		( X	%) 5.	
J		\ ^		
TOLAI		_	TOLAI	
(0) d (		4) <sup>2</sup>		
$\chi^2 = \sum \frac{(Observed\ Cou}{Exp}$	<u>int –Expected Coun</u> ected Count	$(t)^2$ =		
$\chi^2 = \sum \frac{(Observed Coulombra Exponential}{Exponential}$	int –Expected Coun ected Count	$(t)^2 =$		
$\chi^2 = \sum \frac{(Observed Coulomb Z}{Exp}$	<u>int –Expected Coun</u> ected Count	<u>(t)</u> <sup>2</sup> =		
$\chi^2 = \sum \frac{(Observed Coulors}{Exp}$	<u>int – Expected Coun</u> ected Count +	<u>(t)</u> <sup>2</sup> =	+	+
$\chi^2 = \sum \frac{(Observed Coulors Exponential}{Exponential}$	<u>int –Expected Coun</u> ected Count +	<u>(t)</u> <sup>2</sup> =	+	+
$\chi^2 = \sum \frac{(Observed Coulors Exponential}{Exponential}$ $= \_\_\_\_\_ +$	<u>unt –Expected Coun</u> ected Count + +	<u>(t)</u> <sup>2</sup> = + +	+	+ = χ <sup>2</sup>
$\chi^2 = \sum \frac{(Observed Coulors}{Exp}$ $= \+$	<u>unt –Expected Coun</u> ected Count + + +	<u></u> = + +	+	+ = χ <sup>2</sup>

## **Step IV Interpretation:**

We reject the null hypothesis at the% significance	evel (). The P-value of% falls (just below OR well below)						
the significance level, thus there is (moderate OR stro	ng) evidence that the alternative hypothesis is true,						
	,,,, are not all equal.						
The proportion of contributed the largest component of the Chi Square statistic. This relatively							
large contribution suggests it is the proportion that it is not equal to the other proportions.							
	OR						
We fail to reject the null hypothesis at the% sign	ficance level (). The P-value of% shows that a set of						
observed counts as or more different than the expected co	unts would be expected to occur% of the time. Thus, mere						
chance could explain the differences between the observed	and expected counts. We cannot say the proportions of						

in the population of			(,	_,,,	_)
is not the same for all subcategories (1,	2	_, 3	_, 4	_, 5	_).