Class Activity #11				
Name				
1. For a class project, a stu				
or not they had participate contingency table.	d in high school sp			is in the following
D4:-:4-1: IIC	-4 - A4 - Q C	College enrolled		T-4-1
Participated in HS spor Yes	rts Arts & Scie	ence Business 50	Other 40	Total
No	20	50	30	
Total	20	30	30	
$H_0$ :				
Participated in HS spor	rts Arts & Scie	ence Business	Other	
Yes				
No				
Calculate the test statistic.				
0	E	О-Е	$(0 - E)^2$	$(0 - \mathbf{E})^2 / \mathbf{E}$
I		I		
df =			Test Statistic:	
Give the range of p-value				
Should we reject the null of	or not?		_	
Conclusion:				

- 2. A therapeutic drug was tested against a placebo in terms of three subjectively evaluated patient categories:
  - (1) much improved, (2) slightly improved, and (3) not improved.

A total of 120 patients were assigned to the drug group and 90 other patients were given the placebo. All were judged to be in approximately the initial same conditions. Physician evaluation was then made without knowing which treatment the patient received. The resulting data were organized in the following 2 X 3 table:

	Much Improved	Slightly Improved	Not Improved	
Drug	60	32	28	120
Placebo	28	17	45	90
Total	88	49	73	210

At the 5% significance level, test whether there is an association between Drug/Placebo group and patient categories. Be sure to check all the steps.