Chi square exercise

(this is in-class exercise for your own practices)

1) For the following crosstab, please answer the questions

Table 6.1. Identification with School by Home Town Size (in frequencies and expected frequencies)

Identification	Size of Home Town			
with School	Small Large		Total	
High	8	12	20	
	()	()		
Low	7	3	10	
	()	()		
Total	15	15	30	

A) State the null hypothesis

B) Computing the expected frequencies

C) Computing chi-square

D)Computing df (degree of freedom)

E) Determine the p level
F) Decision regarding the null hypothesis, type of errors committed

2) For the following crosstab, please answer the questions

Table 6.4. Satisfaction with Income by Race (in frequencies and expected frequencies)

Satisfaction with	R			
Income	White	Black	Total	
Pretty Well	737	67	804	
	()	()		
More or less	1000	187	1187	
	()	()		
Not satisfied	488	177	665	
	()	()		
Total	2225	431	2656	

A)State the null hypothesis

B) Computing the expected frequencies

C) Computing chi-square

D)Computing df (degree of freedom)
E) Determine the p level
F) Decision regarding the null hypothesis, type of errors committed

3) Answer the following questions,

What are the probabilities associated with each of the following chi squares and degrees of freedom? What decision do you make concerning the null hypothesis, and what type of error do you risk?

				H ₀		Error	Error Risk	
	Chi Sq	df	p <	Reject	Don't Reject	Type I	Type II	
	13.612	6		a				
4	15.171	4			0			
	10.778	5			Ü			
	10.435	2			0			
	11.643	1			a			