Problem #3.3

		Second Shot $S_2 = 1$	Second Shot $S_2 = 0$
First Shot	$S_1 = 1$	251	34
	$S_1 = 0$	48	5

$H_0 : S_1 \perp\!\!\!\perp S_2$ vs H_1 : not H_0

Data is not ordinal so a restricted alternative is not necessary.

Statistics	**Value**	**p-value**	**Conclusion**
X^2	0.2727	0.6015	Do not reject H_0, there is evidence that the first and second shot are independent
G^2	0.2858	0.5930	Do not reject H_0, there is evidence that the first and second shot are independent

Problem #3.9(a)

Counts	Drugs	No Drugs
Schizophrenia	105	19
Affective disorder	8	47
Neurosis	12	52
Personality disorder	2	0
Special Systems	18	13

Std Residuals	Drugs	No Drugs
Schizophrenia	7.8745	2.3853
Affective disorder	-7.8745	-4.8417
Neurosis	1.6023	4.8417
Personality disorder	-1.6023	-5.1395
Special Systems	-2.3853	5.1395

OUTSTANDING: conclusion

Problem #3.12

OUTSTANDING:

Problem #3.15

OUTSTANDING:

Problem #3.31

OUTSTANDING: