

# E-RESOURCE CENTER

MAJOR ADVISING: FORENSIC SCIENCE

## 📄 Sample Assignment: Lab Report (Year 1 & Year 2)

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### Results:

**Table 1: Individual Data for Sex-Linked Genes**

Phenotype	Expected Ration of Population	Observed	Expected	$(O-E)^2/E$
Red Eyed Male	1/4	33	27	1.3
White Eyed Male	1/4	27	27	0
Red Eyed Female	1/4	21	27	1.3
White Eyed Female	1/4	25	27	0.1
	<b>Total Flies</b>	<b>106</b>	$X^2=$	<b>2.7</b>

Table 1 presents individual data obtained from four vials of sex-linked  $F_2$  generations. The Data indicated, based on a chi-square calculation of observed data and expected data (see Appendix), that the individual calculation of  $X^2$  of 2.7 for this data based on a critical  $X^2$  of 7.82 was obtained. Lower  $X^2$  values than the critical value indicate that the test was done correctly with very little error. The individual data was close to the expected data for sex linked genes.

Sample from a lab report by Zully Santiago.  
Courtesy of the Writing Center