**APA Style for Chi-Square (χ2) Goodness-of-Fit**

**10. APA Style Presentation**

Goodness-of-fit results can be reported either as text or table; both approaches are illustrated below.

**(a) Table**

Table 3

*Frequencies of Students by Sex*

|  |  |
| --- | --- |
|  | Student Sex |
|  | Female |  | Male |
| Observed Freq. | 6 |  | 16 |
| Expected Freq. (prop.) | 11 (.5) |  | 11 (.5) |

*Note*. χ2 = 4.55\*, df =1. Numbers in parentheses, (), are expected proportions.

Freq. = frequency and prop. = proportion.

 \*p < .05

Results of the goodness-of-fit test indicate that the frequencies of students by sex are not equally distributed within this class; frequencies are statistically different from what would be expected by chance. It appears that males are disproportionately over-represented in this class and females are under-represented.

**(b) Text**

If presenting these results within text, it could be written as follows:

The statistical results, χ2 (1, n = 22) = 4.55, *p* < .05, indicate that the frequencies of students by sex are not equally distributed within this class; frequencies are statistically different from what would be expected by chance. It appears that males (n = 16) are disproportionately over-represented in this class and females (n = 6) are under-represented.

**21. APA Style Presentation**

**(a) Table**

Table 7

*Frequencies of Births by Months*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Jan.-Feb. | Mar.-Apr. | May-June | July-Aug. | Sept.-Oct. | Nov.-Dec. |
| Observed Freq. | 71 | 78 | 83 | 94 | 112 | 114 |
| Expected Freq. (prop.) | 92 (.167) | 92 (.167) | 92 (.167) | 92 (.167) | 92 (.167) | 92 (.167) |

*Note*. χ2 = 17.456\*, df =5. Numbers in parentheses, (), are expected proportions. Freq. = frequency and

prop. = proportion.

\*p < .05

The goodness-of-fit results indicate statistical differences in birth frequencies throughout the year. Based upon the observed frequencies it appears that the birth rate is highest for the months of September to December, and lowest for the spring and summer months.

**(b) Text**

If presenting these results within text, it could be written as follows:

The goodness-of-fit results, χ2 (5, n = 552) = 17.455, *Section* , indicate statistical differences in birth frequencies throughout the year. Based upon the observed frequencies it appears that the birth rate is highest for the months of September to December, and lowest for the spring and summer months.