

# Lab Report: Chi-Square Goodness-of-Fit

Name(s):

## **Data**

**What random sampling method did you use and why did you use such a method?**

**Record the sample data:**

<b>Month</b>	<b>Frequency</b>
January	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

## **Hypotheses**

- State the claim that you are testing.
  -
- State the null and alternative hypotheses.
  - $H_0$ :
  - $H_a$ :
- Is this a right-tailed, left-tailed, or two-tailed test?

○

## **Goodness-of-Fit Test**

### **Interpretation**

### **Decision on Null Hypothesis**

### **Conclusion**

### **Discussion**

- 1.
2. The chi-square goodness-of-fit test statistic measures \_\_\_\_\_.
  - a. When observed and expected values are close,  $\chi^2$  is \_\_\_\_\_ and p-value is \_\_\_\_\_.
  - b. When observed and expected values are far apart,  $\chi^2$  is \_\_\_\_\_ and p-value is \_\_\_\_\_.