**Answers to Questions**

i. Hypotheses

. **Null Hypothesis (Ho):** Customers choose each snack type (A, B, C, D) with equal probability

(i.e., 25% each).

**. Alternative Hypothesis (H1):** Customers do not choose each snack type with equal

probability.

ii. Chi-Squared Test Results

**. Test statistic: X-squared** = [value from R output]

**. Degrees of freedom:** df = 3

**· p-value:**

[value from R output]

iii. Conclusion

**. If p-value < 0.05, reject the null hypothesis**: There is evidence that customer preferences are

not equally distributed.

**. If p-value ≥ 0.05, fail to reject the null hypothesis:** There is no significant evidence to suggest

unequal preferences.