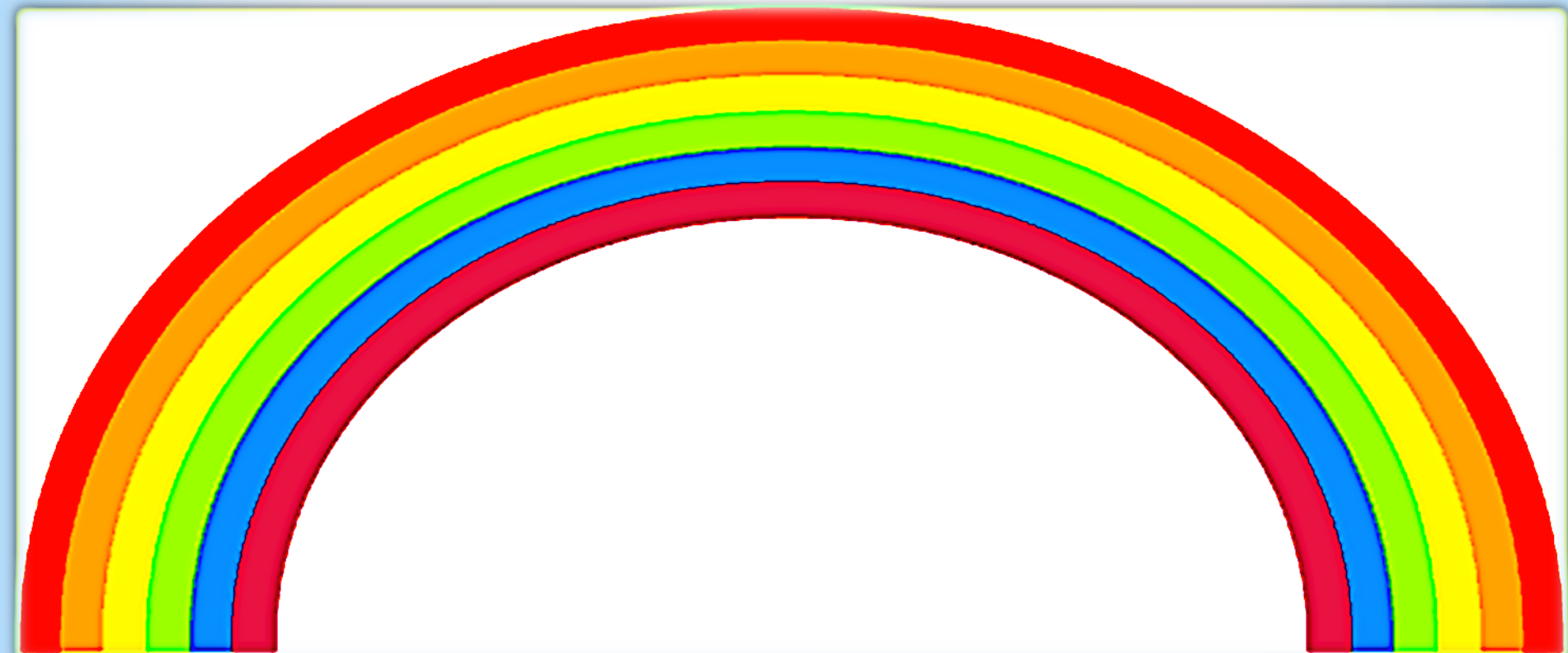




TASTE THE RAINBOW

Minute To Win It Challenge



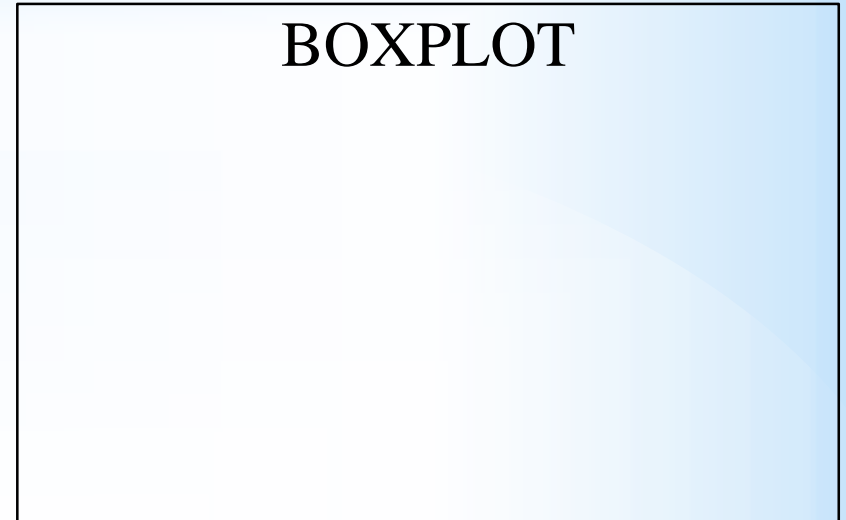
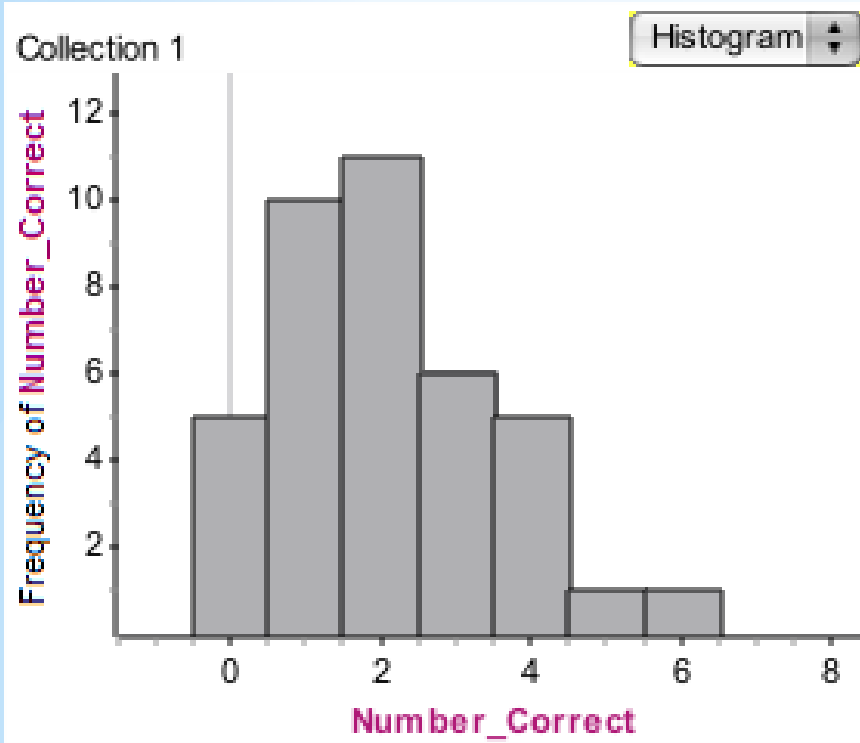
* Introduction & Thoughts Behind The Experiment

- We wanted to chose an experiment that was easy to complete, organized, and some what entertaining.
- Our original hypothesis, was that people who ate more Candy on a Regular Basis and had a stronger preference for Sweets rather than Chocolate would have more success and be able to correctly identify more skittles in one minute than those who do not.

The Task

- * 40 Subjects
- * Objective:
 - * How many Skittles can the Subject identify in one minute based solely on their Taste Buds
- * Categorical Factors:
 - * Gender
 - * Male or Female
 - * Candy Consumption
 - * Frequent, Sometimes, Never
 - * Candy Preference
 - * Chocolate or Sweet
 - * Hair Color

*Overall Quantitative Data



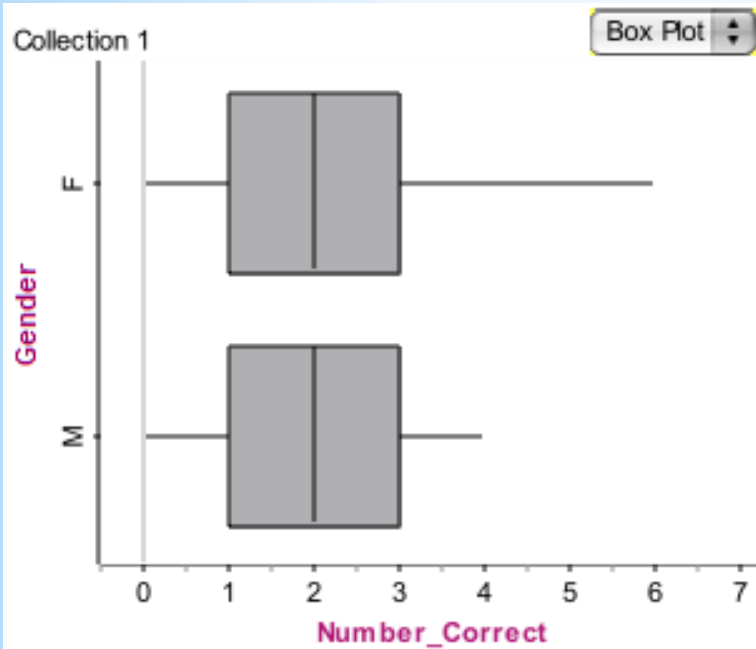
DESCRIBE: Shape, Center, and Spread

SUMMARY STATS:

- Check for Normality
 - Shape
 - 1st SD (lb,ub)
 - # observation
 - % of observations
 - 2nd SD (lb,ub)
 - # observation
 - % of observations
 - Same for 3rd SD

OUTLIER TEST:

*Quantitative Data by Gender



Female Summary Stats:

Male Summary Stats:

* OUTLIER TEST ON EACH GENDER

DESCRIBE AND COMPARE THE TWO DISTRIBUTIONS
SHAPE, CENTER, SPREAD

* Quantitative Data by Categorical Variable (with only 2 values)

Parallel Boxplots

Summary stats for
Value 1

Summary stats for
value 2

* OUTLIER TEST ON EACH VALUE

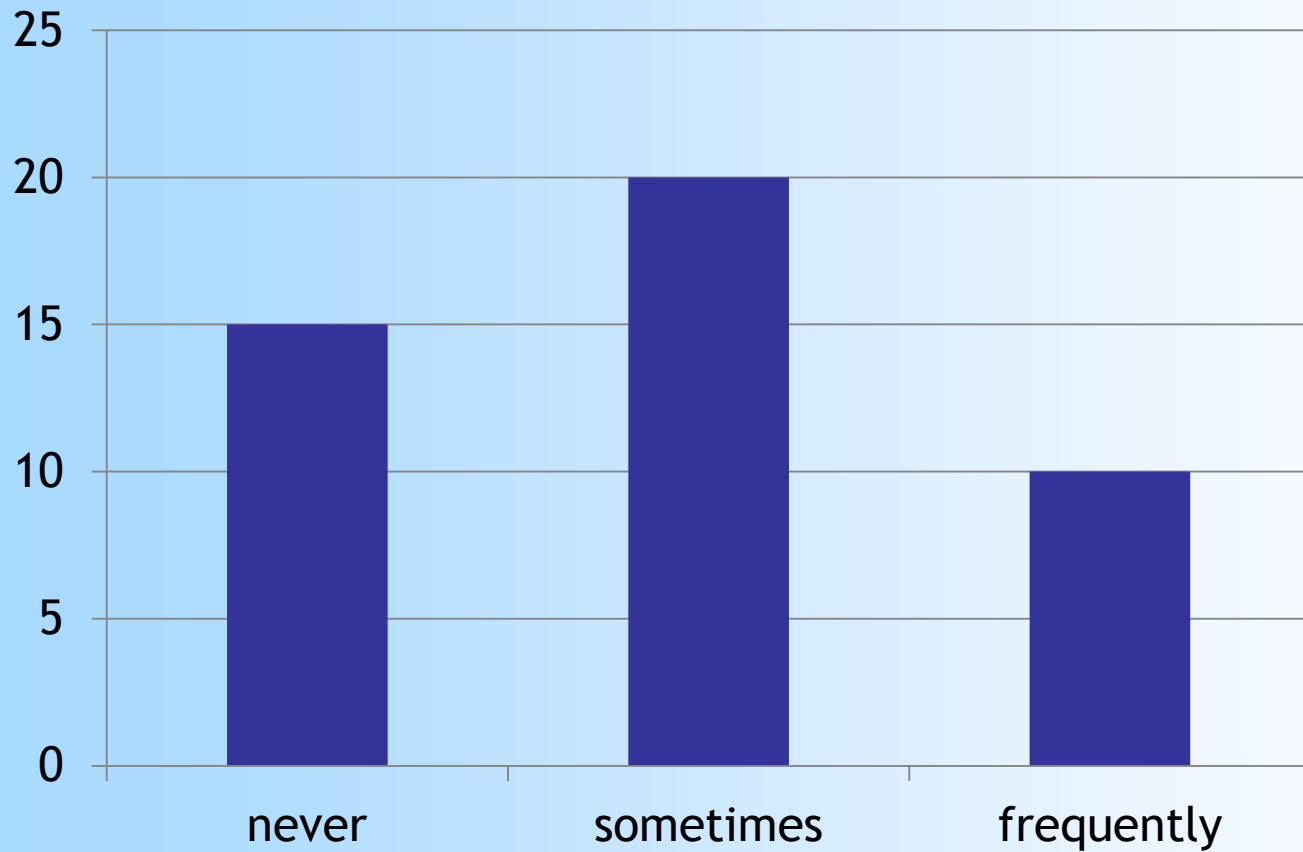
DESCRIPTION/COMPARISON OF EACH VALUE

* Quantitative Data by Candy Consumption

Sometimes, Never, Frequently

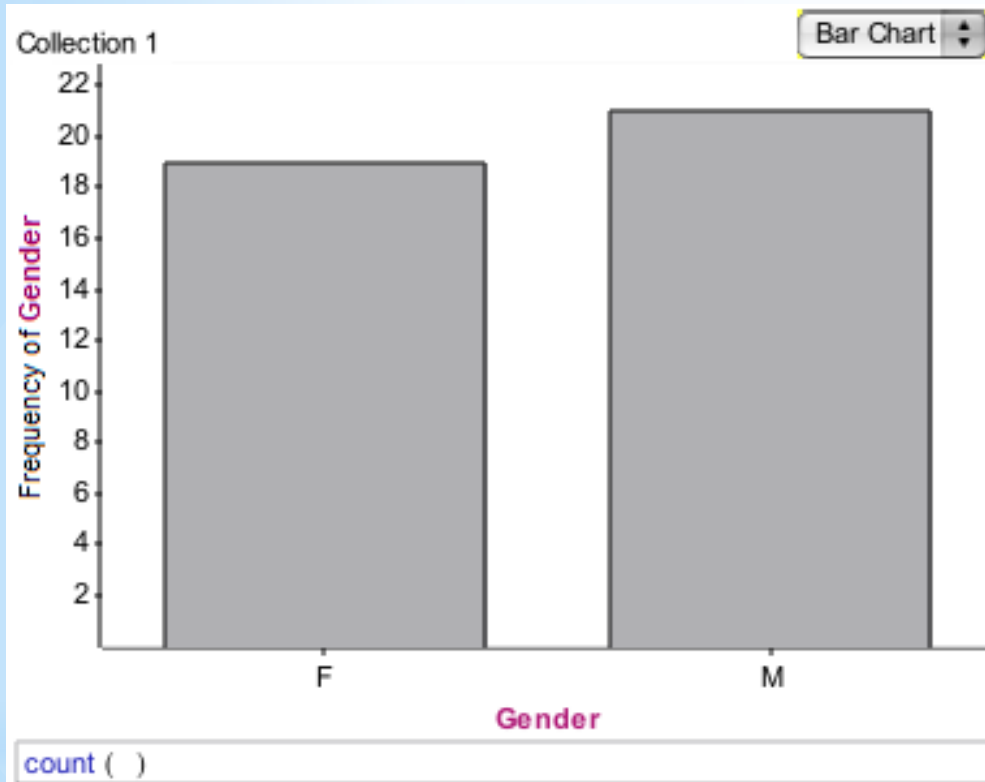
never	sometimes	frequently
15	20	10

never	sometimes	frequently
33.3%	44.4%	22.2%



General conclusion about
distribution of the variable

* Distribution for Gender



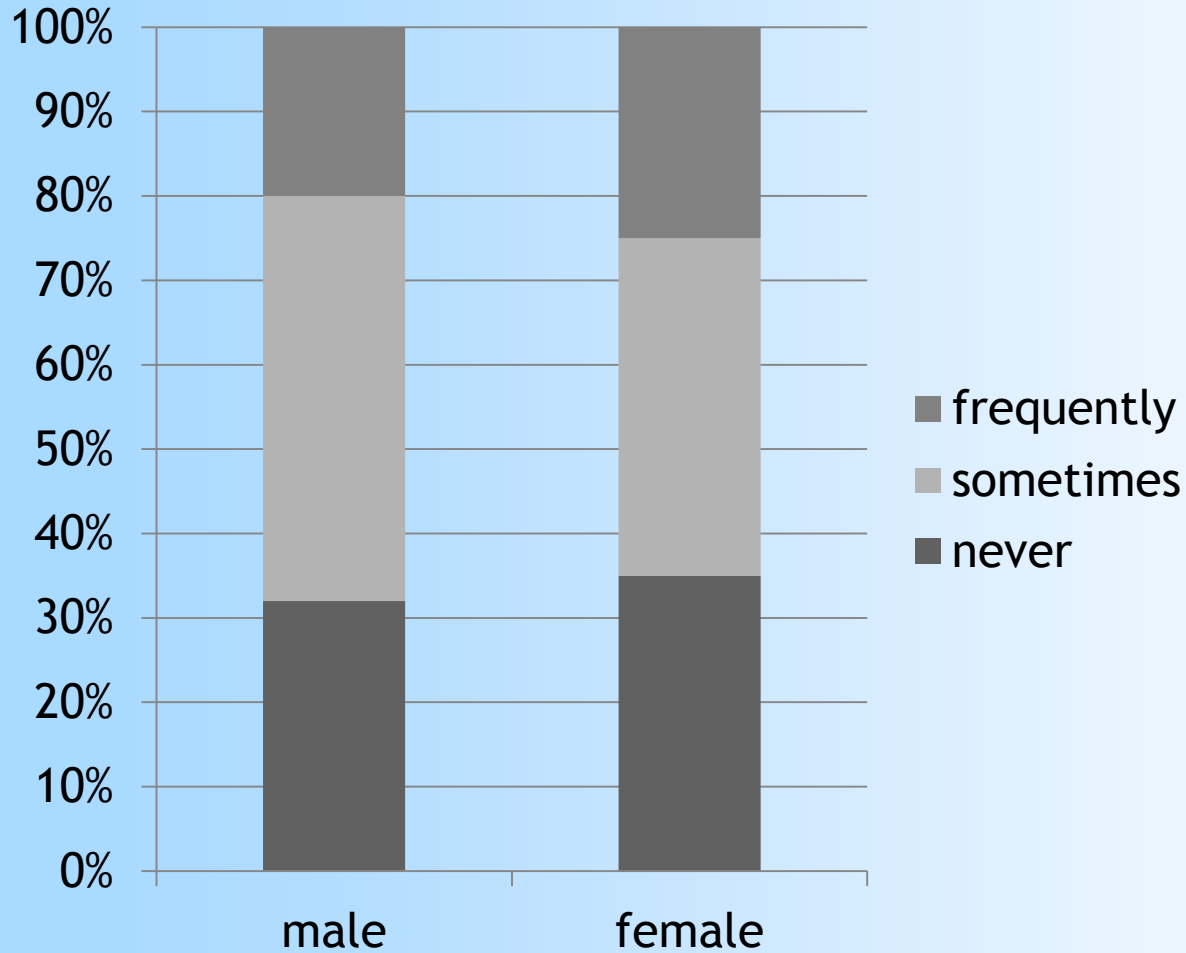
Male: 21
Female: 19

Male: 52.5 %
Female: 47.5%

*Simple Two-Way Table of Categorical Data

	never	sometimes	frequently	total
male	8	12	5	25
female	7	8	5	20
total	15	20	10	45

* SEGMENTED BAR GRAPH



List the % in each category:

Of the males...

F = ___%

S = ___%

N = ___%

Of the females...

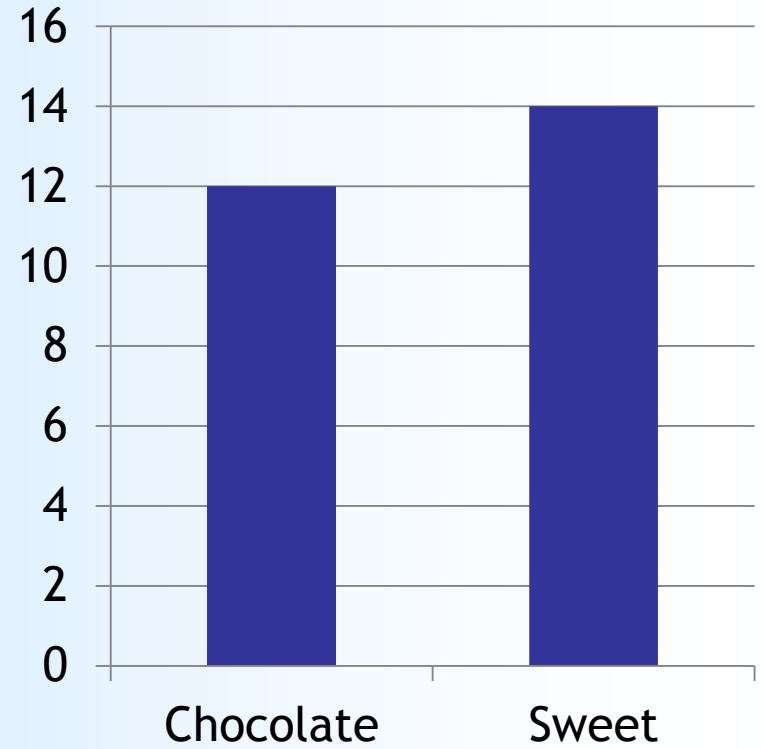
F = ___%

S = ___%

N = ___%

Chocolate	Sweet
20	30

Chocolate	Sweet
40%	60%



*** Candy preference
(chocolate or sweet)**

	Chocolate	Sweet
male	12	14
female	8	16

Percents of each value:

Of the males:

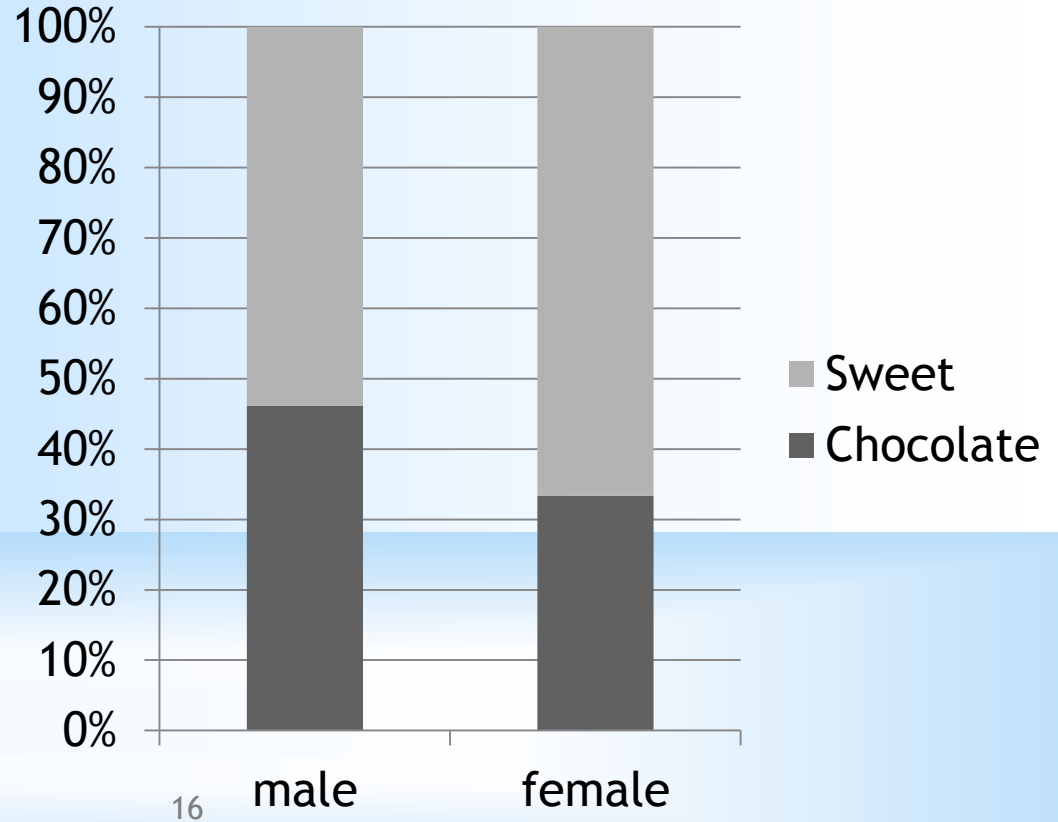
C = _____%

S = _____%

Of the females:

C = _____%

S = _____%



*Sources of Error and Bias

What went wrong in your experiment?

What could have been done differently?

What could have adversely affected your experiment?

* Conclusion

- * Make a DETAILED conclusion about what you found from each of your analyses.