



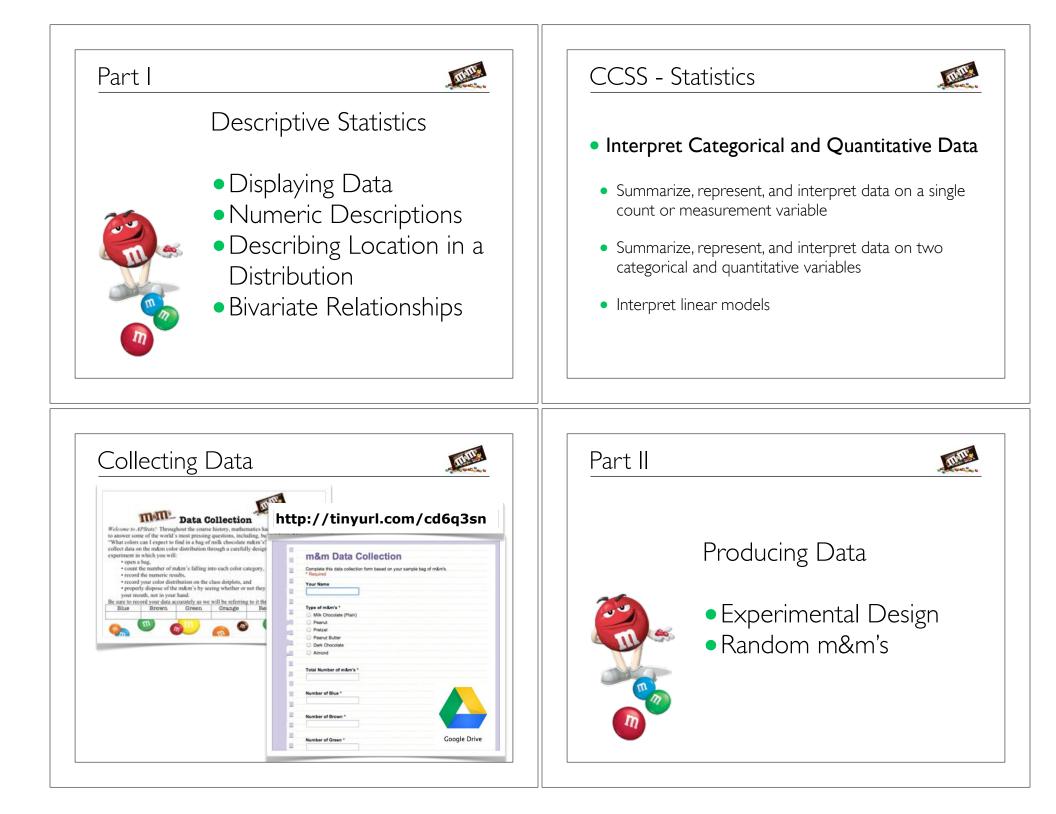
Framing Questions



• What are we **interested** in determining?

• What if...

- What would we **expect** to observe?
- What would we see if we collected **LOTS of samples**?
- What did **we observe** in our sample?
- Should we be surprised?
 What can we conclude?



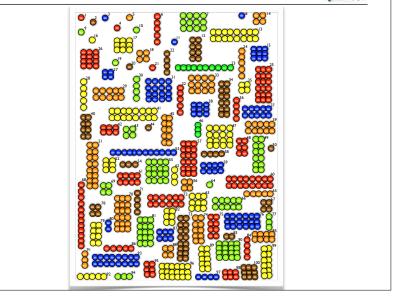
CCSS - Statistics



• Make Inferences and Justify Conclusions

- Understand and evaluate random processes underlying statistical experiments
- Make inferences and justify conclusions from sample surveys, experiments, and observational studies

Random m&m's

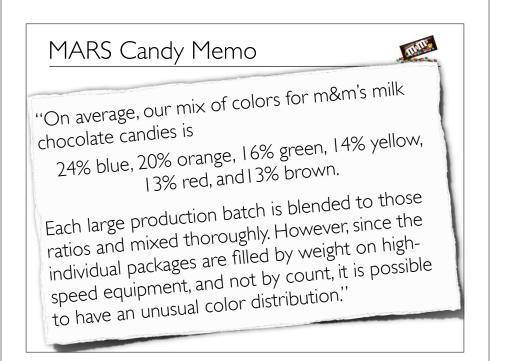


Part III



Understanding Chance Behavior

- Conditional Probability
 - Inferential Thinking
 - X^2 Goodness of Fit



CCSS - Statistics



• Use Probability to Make Decisions

- Calculate expected values and use them to solve problems
- Use probability to evaluate outcomes of decisions

Chi-Square

	Brown	Yellow	Red	Orange	Green	Blue	Total
Observed							
Expected							
(O-E) ² /E							

	Brown	Yellow	Red	Orange	Green	Blue	Total
Plain							
Peanut							
Peanut Butter							
Pretzel							
Dark Chocolate							
Total							

CCSS - Statistics



Conditional Probability and the Rules of Probability

- Understand independence and conditional probability and use them to interpret data
- Use the rules of probability to compute probabilities of compound events.

