

Lesson 4: Descriptive Statistics II

Date: August 21, 2025

1 Warm up

2 Honor Brief

3 Admin Notes

- Honor Brief
- Discuss readings by lesson and green book vs. section book
- Show me MA103 3-ring binder and folder on computer

4 Mentimeter quiz.

5 Lecture.

5.1 Making assumptions

This concerns **cleaning** the data

- Values that don't make sense - wrong data type
- Missing values
- Outliers - this is a little different than wrong data type

6 Work on Board Sheet

7 Excel exercise

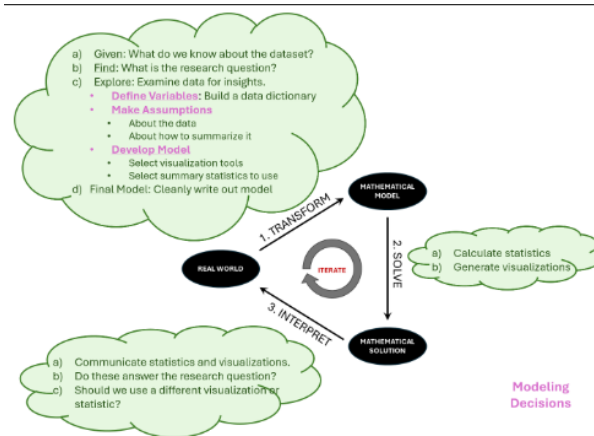


Figure 1: Descriptive Statistics

Types of Variables
<p>Numerical: a variable that takes on numerical values [1]</p> <ul style="list-style-type: none"> • Continuous: a variable that can take on infinitely many values in an interval [4] • Discrete: a variable that can only take on specific, separate values, often whole numbers, such as the number of students in class or the number of goals scored in a game [4]
<p>Categorical: a variable that distinguishes among subjects by sorting them into a limited number of categories [3]</p> <ul style="list-style-type: none"> • Nominal: labels categories without an inherent order or ranking [3] • Ordinal: a variable that is measured using a scale that places an order on it, such as t-shirt sizes small, medium, large, and extra large [3] • Binary: a variable with only two possible values, usually coded as 0 and 1 [3]

Figure 2: Variable Types