

Lesson 5: Data Story - Data Set I

Date: August 22, 2025

1 Review - CDT Lund

2 **INDIVIDUAL Warm-Up:** Go back to the data set from yesterday (Mil Log), and calculate the mean, max, min, and std for fuel usage. Write your answer on the board with your name in the top lefthand corner.

3 Admin Notes

- Discuss readings by lesson and green book vs. section book
- Assignment due **NEXT CLASS!**

4 Lecture.

4.1 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

4.2 Measure of spread

5 Work on Board Sheet

6 Military discussion

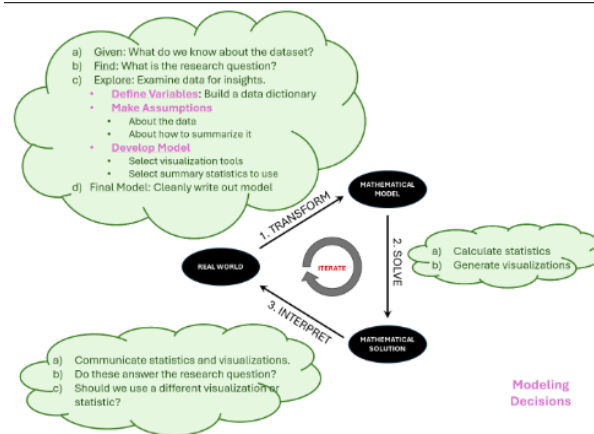


Figure 1: Descriptive Statistics

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