

MA103: Mathematical Modeling & Intro to Calculus

Descriptive Modeling of a Data Set 3

Lesson Objectives: Cadets will

1. calculate and describe the center of a dataset using mean and median by hand and with Excel.
 2. calculate and describe the spread of a dataset using sample standard deviation by hand and with Excel.
 3. visualize a dataset using a histogram in Excel and describe the shape of the dataset.
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Admin Notes

- Two reviews: Trevor and Sophia
- Zero Point quiz - peer graded.
- Bonus point tracker
- Assigning Project I on Tomorrow
- Course survey (in class - 5 mins) and instructor survey (out of class)

Reference the Skew Data Set, downloadable from my instructor website. Make a histogram of the data and draw the rough shape on your board.

What do you notice about the data? What is the appropriate measure of center? Why?

Create for data set 2, and again what is the appropriate measure of center and why?

Create for data set 3, and again what is the appropriate measure of center and why?

Create for data set 4, and again what is the appropriate measure of center and why?

Create for data set 5, do you think this data set has a higher standard deviation than data set 5? Why or why not?