

Math 142: Wednesday, September 11th, Day 8 Notes

Agenda for Wednesday, Sep 11th 2024

Section 3.1 Measures of central tendency	1
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Group Quiz 2	4

Reminders

- ! Group Quiz 2 today on Chapter 2 (you can use your won notes)
- ! Exam 1 on Wednesday Sept 18th
- First **Excel Homework** due today in Canvas (Excel file upload)

Recall:

Weighted mean:

Example 1. Your grade in this class is calculated as weighted mean.

Grade Distribution
3 In Class Exams 45%
Online Canvas Homework 20%
Excel Assignments 10%
In class group activities 10%
Final exam 15%

Section 3.2 Measures of variation

In some data sets, the data values are concentrated closely near the mean; in other data sets, the data values are more widely spread out from the mean. We will discuss three measures of variation: the range, the standard deviation, and the variance.

Range:

Standard Deviation:

Stats section 1 exam scores	Stats section 2 exam scores
49.5, 57, 66, 73, 78, 85, 92	67, 68.5, 71, 72, 74.5, 75
$\bar{x} =$	$\bar{x} =$
σ	σ
s	s

Variance:

σ^2	σ^2
s^2	s^2

Standard Deviation of Grouped Frequency Distribution

MPG	Frequency
24 - 31	12
32 - 39	15
40 - 47	8
48 - 55	4
56 - 63	1