- Understand the ways to describe the center and spread of a dataset, including mean, median, mode, range, and standard deviation, and what each measure conveys about the data.
- Interpret how outliers influence statistical measures and use tools like z-scores and standard deviation ranges to identify unusual observations.
- Compare and interpret center and spread within subgroups to draw meaningful

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conclusions about categorical variables.
ey Definitions • Mean:
• Median:
• Mode:
• Range:
• Standard Deviation:
• Outlier:
• z-score:

Standard Deviation Steps

List the steps to calculate the standard deviation by hand.

- 1.
- 2.
- 3.
- 4.
- 5.

Calculation Practice

Dataset: 8, 9, 8, 12, 8, 9

- Mean:
- Median:
- Mode:
- Standard Deviation: