

WORKED EXAMPLES PACK

Worked Examples for Mean, Standard Deviation, and Z-Scores

A more substantial worked-examples pack for descriptive statistics and spread measures, designed for revision and checking.

QUICK OVERVIEW

Category: statistics data

Includes 2 related guide pages.

Links back to 3 calculator tools.

FORMULA HIGHLIGHTS

Mean

mean = sum of values / number of values

Z-score

$z = (x - \text{mean}) / \text{standard deviation}$

EXAMPLE SET 1: CENTRE

Given a small dataset, compute mean, median, mode, and range, then compare what each measure notices and what it ignores.

EXAMPLE SET 2: SPREAD

Use a compact dataset to calculate variance and standard deviation step by step, making the squared-deviation logic visible.

EXAMPLE SET 3: Z-SCORES

Standardise a value using the mean and standard deviation, then interpret whether it is typical or unusual within the model.

REVISION REMINDERS

- Keep the centre and the spread conceptually separate.
- State whether the variance/standard-deviation model is sample-style or population-style if your workflow requires the distinction.
- Interpret results in context rather than quoting the number alone.