

# Lab-5 Measures of Variability (Spread)

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## Lab-1: Calculating Range, Variance, and Standard Deviation

### Question:

The weights (in kg) of 8 gym members are:

[70, 75, 80, 85, 90, 95, 100, 105].

1. Calculate the **range** of the weights.
2. Calculate the **variance** and **standard deviation**.
3. Explain what these measures indicate about the spread of weights in the group.

## Lab-2: Comparing Variability Between Two Groups

### Question:

Two classrooms have the following math test scores:

- **Class A:** [85, 87, 89, 91, 93, 95]
- **Class B:** [65, 75, 85, 95, 105, 115]

1. Calculate the **range**, **variance**, and **standard deviation** for both classes.
2. Identify which class has a more consistent performance based on the measures of variability.