

# Lab-7 Data Shape

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## Lab-1: Identifying Skewness in Data Shape

### Question:

A company records the delivery times (in minutes) for 12 packages:

[15, 20, 18, 22, 30, 35, 40, 28, 25, 20, 18, 15].

1. Plot a histogram of the data.
2. Calculate the **mean**, **median**, and **mode** of the delivery times.
3. Identify whether the data is **symmetrical**, **positively skewed**, or **negatively skewed**, and explain why.

## Lab-2: Analyzing Kurtosis (Peakedness) in Data

### Question:

The following are the scores of 20 students in a reading comprehension test:

[25, 30, 32, 35, 35, 36, 37, 38, 38, 40, 40, 42, 45, 45, 45, 48, 50, 50, 50, 55].

1. Plot a histogram of the data.
2. Calculate the kurtosis using statistical methods.
3. Determine whether the distribution is **leptokurtic**, **mesokurtic**, or **platykurtic**, and explain what it indicates about the data.