

# Statistics

**Statistical Question:** Has answers.

**Non-statistical Question:** Has only answer.

Another word for **Mean**:

**Median:** number.

**Mode:** The number you see

Another word for **Range**:

**IQR =  $Q3 - Q1$**  (The range in the middle of the data.)

**Measures of Center:**

**Measures of Variation:**

**Shapes of Distribution**

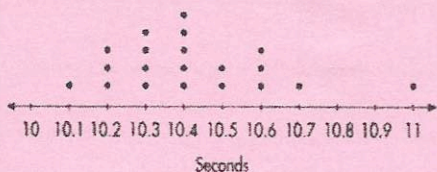
Skewed Right:

Skewed Left:

Symmetric:

## Dot Plot

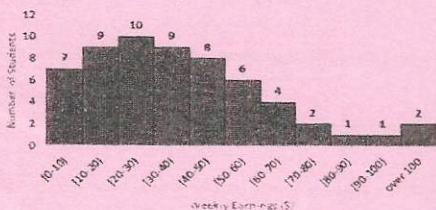
Times for 100-meter Sprint



Used when there's lots of information to display. Easy to see clusters, gaps & outliers.

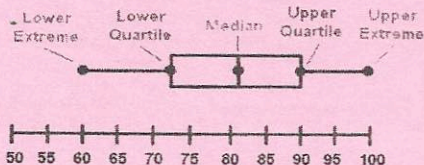
## Histogram

Weekly Earnings of Students Ages 13-17



Bars touch and use intervals. Good overview but you don't see individual data.

## Box-and-Whiskers Plot



Easy to find the median, range and IQR, but you don't see individual data.

## Mean Absolute Deviation (MAD)

The average distance the numbers are from the mean.