

# FORMULAS SHEET FOR BASIC STATISTICS

## INTRODUCTION TO DATA

(1) Total Number of Classes (groups) =  $1 + 3.322 \text{ Log } (n)$   
where  $n$  is the total number of the observed points

(2) Class Size (width/Interval) =  $h = \frac{\text{Range}}{\text{Number of Classes}}$   
where Range = (Maximum value) - (Minimum Value)

(3) Mid Point (Class Mark) =  $X = \frac{\text{Lower Limit} + \text{Upper Limit}}{2}$

(4) Relative Frequency =  $\frac{\text{Class Frequency}}{\text{Total Frequency}} \times 100$

## CENTRAL TENDENCY

### For Un-Grouped Data

(1) Arithmetic Mean =  $\bar{X} = \sum x/n$

(2) Geometric Mean =  $\bar{X} = (\pi x)^{1/n}$   
(Or)  $\bar{X} = \text{Anti Log } [ \sum \text{Log}(x)/n ]$

(3) Harmonic Mean =  $\bar{X} = n/\sum(1/x)$

(4) Median =  $\bar{X} = [(n + 1)/2]^{\text{th}}$  value

(5) Mode =  $\bar{X}$  = The most repeated value in data

# Student Solutions To Basic Statistics

**Sabine Zange**



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