

Statistics Formula Sheet:

Mean:	Sample Mean: $\bar{X} = \frac{\sum X}{n}$	Population Mean: $\mu = \frac{\sum X}{N}$
Median: (Q2)	If n is odd: $M = \left(\frac{n+1}{2}\right)^{\text{th}} \text{ Term}$	If n is even: $M = \frac{\left(\frac{n}{2}\right)^{\text{th}} \text{ Term} + \left(\frac{n}{2} + 1\right)^{\text{th}} \text{ Term}}{2}$
Mode:	The number with the highest frequency.	
Range: H → Highest Value L → Lowest Value	$\text{Range} = H - L$	$\text{MidRange} = \frac{H+L}{2}$
Standard Deviation:	Sample: $s = \sqrt{\frac{\sum (X - \bar{X})^2}{n-1}}$	Population: $\sigma = \sqrt{\frac{\sum (X - \mu)^2}{N}}$
Variance:	Sample Variance: $s^2 = \frac{\sum (X - \bar{X})^2}{n-1}$	Population Variance: $\sigma^2 = \frac{\sum (X - \mu)^2}{N}$
Coefficient of Variation:	Sample CV: $CV = \frac{s}{\bar{X}} \times 100\%$	Population CV: $CV = \frac{\sigma}{\mu} \times 100\%$
Mean Absolute Deviation:	Sample MD (Mean): $MD = \frac{\sum X - \bar{X} }{n}$	Population MD (Mean): $MD = \frac{\sum X - \mu }{N}$
Average Deviation:	Sample AD: $AD = \frac{\sum (X - \bar{X})}{n}$	Population AD: $AD = \frac{\sum (X - \mu)}{N}$

Understanding Basic Stat

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