

Unit05:Relation between Moments

1. The _____ means that some value has been either added or subtracted to the observations	Change of origin	Change of scale	Change of Mean	None of the above
2. The _____ means that some value has been either multiplied or divided to the observations.	Change of origin	Change of scale	Change of Mean	None of the above
3. _____ changes standard deviation and variance	Change of origin	Change of scale	Change of Mean	None of the above
4. _____ changes mean, median, mode	Change of origin	Change of scale	Change of Mean	None of the above
5. No matter what value we add to the set, the mean will shift by that amount but the _____ will remain the same	Range	Mode	Median	All of the above
6. if we subtract an amount from every data point in the set: the mean will shift to the left but _____ will stay the same	Interquartile range (IQR),	Mode	Median	All of the above
7. The _____ is the difference between the lowest and highest values.	Range	Mode	Median	All of the above
8. In descriptive statistics, the _____ also called the midspread, middle 50%, or H-spread, is a measure of statistical dispersion, being equal to the difference between 75th and 25th percentiles, or between upper and lower quartiles	Interquartile range (IQR),	Mode	Median	All of the above
9. Most widely used measure of variability is	Standard deviation	Mean	Mode	Median
10. Greatly influenced by sample size: the larger the sample, the larger the _____	Standard deviation	Mean	Mode	Range

11. A normal distribution (bell curve) exhibits_____ skewness.

Positive

Negative

Zero

Range

12. _____distribution has more than one peak

Single modal

Multimodal

Skewness

All of the above

13. In probability theory and statistics, _____ is the expectation of the squared deviation of a random variable from its mean

Standard deviation

Variance

Mode

Median

14. _____ measures the degree of peakedness of a frequency distribution.

Kurtosis

Skewness

Mode

All of the above

15. The kurtosis reveals a distribution with flat tails

Platykurtic

Mesokurtic

Leptokurtic

All of the above