CA Foundation – Statistics Revision Chart

Effect of Change of Origin & Change of Scale

1■■ Measures of Central Tendency

Mean: Origin – YES | Scale – YES
Median: Origin – YES | Scale – YES
Mode: Origin – YES | Scale – YES
Geometric Mean: Origin – YES | Scale – YES
Harmonic Mean: Origin – YES | Scale – YES

2■■ Measures of Dispersion

Range: Origin – NO | Scale – YES
Quartiles / Percentiles: Origin – NO | Scale – YES
Quartile Deviation: Origin – NO | Scale – YES
Mean Deviation: Origin – NO | Scale – YES
Standard Deviation: Origin – NO | Scale – YES
Variance: Origin – NO | Scale – YES
Coefficient of Variation (CV): Origin – YES | Scale – NO

3■■ Correlation & Regression

Correlation Coefficient (r): Origin – NO | Scale – NO
Regression Coefficient: Origin – NO | Scale – YES

4■■ Quick Memory Codes

• Origin affects ONLY central tendency and CV.
• Scale affects EVERYTHING except Correlation & CV.
• Correlation = NO, NO (Origin – No | Scale – No)
• CV = YES, NO (Origin – Yes | Scale – No)
• Regression = NO, YES (Origin – No | Scale – Yes)