Edulyte

COEFFICIENT OF VARIATION FORMULA

The coefficient of variance is the ratio of the standard deviation to its mean. The higher the coefficient of variation, the greater the level of dispersion around the mean, and the coefficient of variation is expressed in terms of percentage. The coefficient of variance analysis is effective in human life and helps in the calculation, especially in the investment industry.

Read more

Q1: A CV value of 0.25 indicates:

A: High variability
B: Low variability
C: No variability
D: Impossible to determine without additional context

Q2: A CV of 0.10 is generally considered:

A: High variability
B: Moderate variability
C: Low variability
D: Impossible to determine without additional context

Q3: When comparing two datasets using CV, which dataset is more consistent if it has a lower CV?

A: The dataset with a higher CV
B: The dataset with a lower CV
C: Both datasets have the same level of consistency
D: It cannot be determined without more information.

Q4: What is the formula for the Coefficient of Variation?

A: Mean × 100
B: Standard Deviation × 100
C: (Standard deviation/mean) × 100
D: Standard Deviation + Mean × 100

Q5: Find the sample coefficient of variance of the given data set (31.9, 42.5, 55.2, 67.8)

A: 30%
B: 31.5 Cm
C: 32%
D: 31.50%

Q6: If the coefficient of variation of two distributions are 60 and 70, and their standard deviations are 25 and 16, respectively, find their arithmetic means.

A: 41.66 and 22.87
B: 41 and 22
C: 40 and 37
D: None of these

Q7: What is the best Coefficient of Variation?

A: 0
B: 1.5
C: 1
D: 0.5

Q8: What is the Coefficient of Variation Equal to Standard Deviation?

A: 1.5
B: 0.5
C: 0
D: 1

Q9: Find the coefficient of variation of the following sample set of numbers. {1, 5, 6, 8, 10, 40, 65, 88}.

A: 1.2
B: 1.08
C: 1.34
D: 1.180

Q10: What is the primary sector to use the Coefficient of Variation?

A: Investment
B: Doctors
C: Engineers
D: Sportspersons

Answers

Q1: B - Low variability

Q2: D - Impossible to determine without additional context

Q3: A - The dataset with a higher CV

Q4: C - (Standard deviation/mean) × 100

Q5: D - 31.50%

Q6: A - 41.66 and 22.87

Q7: B - 1.5

Q8: C - 0

Q9: D - 1.180

Q10: A - Investment