Covariance

Problem Statement

1. If I find Covariance between same variable what will be the output? What will be

correlation coefficient?

Ans : The total output will be zero as the covariance is between same variables.

2. Assume I have a set of numbers. The mean, median and mode of the set of numbers are

equal. If I draw a Frequency plot of individual distinct numbers, how would the plot look like ?

Ans : B

3. If the scores for a given sample distribution are:

32 32 35 36 37 38 38 39 39 39 40 40 42 45

Find the Variance and The Standard Deviation

Ans : Mean = 32 +32 + 35 + 36 + 37+ 38+ 38+ 39+ 39+ 39+ 40+ 40+ 42+ 45 / 14 = 38

X bar (sample mean) = 38

The variance is

**The Answers and the related calculations to the next question is available in the excel.**