

Worksheet: Measures of Dispersion (Range, Quartile Deviation, Standard Deviation)

West Bengal State Board · Class 11 · Economics · 3 questions · 13 marks

Name: _____

Date: _____

Score: _____ / 13

Q1. For the following data: 15, 22, 8, 35, 12, 28, 45, 20. Calculate (a) Range (b) If $Q_1 = 13$ and $Q_3 = 31.5$, find Quartile Deviation. [3 marks]

Q2. Calculate the Standard Deviation and Variance for the following data: 4, 8, 12, 16, 20. [4 marks]

Q3. Two batsmen's scores across 6 innings are: Batsman A: 48, 52, 55, 60, 42, 55 ($\bar{X} = 52$, $\tilde{A} = 5.77$). Batsman B: 30, 75, 20, 85, 15, 90 ($\bar{X} = 52.5$, $\tilde{A} = 30.4$). (a) Calculate the Coefficient of Variation for each. (b) Which batsman is more consistent and why? (c) Why is CV a better measure of comparison than SD here? [6 marks]
