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

NIOS · 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• = 13 and Qƒ = 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 (X = 52, Ã = 5.77). Batsman B: 30, 75, 20, 85, 15, 90 (X = 52.5, Ã = 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]*