MEASURES OF CENTRAL TENDENCY + VARIATION Measures of central tendency Mode Median Mean = Sum of the middle value the most frequent value # of items 1) Put data ini Order! = <u>> x</u> 20 items population sample 20 = 10th 11th u 85 =42.5 ≈ 43th HISTO GRAM 0 03 05 04 05 06 05 01 0 Median Mean Median

MEASURES OF VARIATION_ Show the "spread" of the data Range = Highest Lowest Value 98-78 = 20 18-46 = 52 Interquartile Range (IQR) = Q3-Q1 = finds range of middle 50% of data. Standard Deviation - the largerage of how much each piece of data varies from the mean. 1) Find mean 27,13,16,17,19,24 2) Data- Mean 3) Square the differences $\chi = \frac{96}{10} = 16$ -16 -9 -3 3 7 3 8 4) Find mean of Squares $= 81+9+0+1+9+64 = \frac{164-127.33}{6} = 5.23$

