Convenience - collect data from readily available Sources Random - Everyona has an = chance of being selected. Systematic - Select every Kth person Stratified - 1) Divide population into groups 2) Randomly select a few people from gach group. Cluster - D Divide population into groups 2) Randomly select a few groups 2) Randomly select a few groups 3) Randomly select a few groups 4) Randomly select a few groups Survey everyone in those groups.

MEASURES OF VARIATION (Part 1) Measure the "spread" of the data 1) Range = Highest - Lowest Value 47,81-103 most affected by an extreme value Most of how much each piece of data varies preferred from the mean. 1) Find means 1) Find \$ 6,8,9,11,12,28,34.36 2) Data— nean 3) Square the differences $M = \frac{144}{8} = 18$ (-12)2 H 10/2 + (-4)2 + (-1)2+(-0)2 (0)2 (0)2+(18)2 = <u>1090</u> (alculator: 122+ w2+92+72+ ... Standard deviation Sample population (calculation 4) Find the mean of the squares = 11.67 5) Vmean