

REASURES OF VARIATION - Measures ... the spread the data Range = Higheot \_ Lowest Value Value Interguartile Range (IQR) = Q3 - Q1 Q, Med. Qz Standard Deviation the average of how Much each piece of data varies from the mean. <u>Sample population</u> 5 0 1) Find maan. {7,13,16,17,19,24} 2) Data-Mean 3) Find the mean of X= <u>16</u>= 16 the squares (-9)+(3)+(0)+()+(3)+(8) 4) Square root of mean  $= \frac{164}{6} = \sqrt{27.33} \approx 5.23$  $\frac{\sum (\chi - \mathcal{M})^2}{n}$  $S=\sqrt{\sum (x-\overline{x})^2}$ 

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$$\frac{[QR]}{Median} = \frac{22}{2} = 11^{P_{+}} 12^{P_{-}} = 77$$

$$\frac{11}{2} = 5.5 \approx 6^{P_{+}}$$

$$Q_{1} = 69 \quad Q_{3} = 86$$

$$IQR = 86 - 69 = 17$$

$$\frac{Qet liers}{1} = 17 \times 1.5 = 25.5$$

$$Q_{1} = 1000 \text{ Jorning} = 86 + 25.5 = 10.5$$

$$\frac{Q_{1}}{Q_{2}} = 1000 \text{ Jorning} = 86 + 25.5 = 10.5$$

5) lower boundary. 80 as.s 58 + 42 = outliers