

AP Statistics Cheat Sheet

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AP STATISTICS FORMULAS

Descriptive Statistics

$$\bar{x} = \frac{\sum x_i}{n}$$

$$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{N}} \text{ - Population}$$

$$IQR = Q_3 - Q_1$$

$$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}} \text{ - Sample}$$

$$Q_1 = (1.25 \cdot IQR) + \text{Lower Outlier}$$

$$Q_3 = (1.25 \cdot IQR) + \text{Higher Outlier}$$

$$s = \sqrt{\frac{IQR}{n}}$$

$$\text{Correlation Coefficient} = -1 \leq r \leq 1$$

$$= \frac{1}{n-1} \sum \left(\frac{x_i - \bar{x}}{s_x} \right) \left(\frac{y_i - \bar{y}}{s_y} \right)$$

$$J = n + a \quad k = r \left(\frac{n}{k} \right) \quad n = J - k$$

$$\text{Residual} = y_i - \hat{y}_i \quad \text{Root-mean-square deviation} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}} \quad R^2 = 0 \leq R^2 \leq 1$$

Probability and Distributions

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

Discrete random variable, X

$$\mu_x = E(X) = \sum x_i \cdot P(x_i)$$

$$\sigma_x = \sqrt{E(x_i - \mu_x)^2 \cdot P(x_i)} = \sqrt{\text{Var}(X)}$$

$$E(X + Y) = E(X) + E(Y)$$

$$\text{Var}(X + Y) = \text{Var}(X) + \text{Var}(Y)$$

$$\sigma_{X+Y}^2 = \sigma_x^2 + \sigma_y^2$$

Guide Ap Statistics

Zhe Xu



Guide Ap Statistics:

Enjoying the Track of Appearance: An Psychological Symphony within **Guide Ap Statistics**

In a global eaten by screens and the ceaseless chatter of immediate communication, the melodic splendor and psychological symphony developed by the published term often disappear in to the backdrop, eclipsed by the relentless sound and interruptions that permeate our lives. Nevertheless, located within the pages of **Guide Ap Statistics** a wonderful literary prize brimming with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that fascinating masterpiece conducts viewers on an emotional trip, skillfully unraveling the concealed tunes and profound influence resonating within each cautiously crafted phrase. Within the depths with this moving analysis, we shall examine the book is main harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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