# Formulas for AP Statistics

#### I. Descriptive Statistics

$$\overline{x} = \frac{1}{n} \sum x_i = \frac{\sum x_i}{n}$$

$$s_s = \sqrt{\frac{1}{n-1}\sum(x_i - \overline{x})^2} = \sqrt{\frac{\sum(x_i - \overline{x})^2}{n-1}}$$

$$\hat{y} = a + bx$$

$$\overline{y} = a + b\overline{x}$$

$$r = \frac{1}{n-1} \sum \left( \frac{x_i - \overline{x}}{s_s} \right) \left( \frac{y_i - \overline{y}}{s_s} \right)$$

$$b = r \frac{s_s}{s_s}$$

#### II. Probability and Distributions

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

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

# $\mu_x = E(X) = \sum_i x_i \cdot P(x_i)$ Discrete random variable: X If X has a binomial distribution with $\mu r_w = mp$ parameters it and P, then:

$$\sigma_x = \sqrt{\sum (x_i - \mu_x)^2 \cdot P(x_i)}$$

$$\sigma_x = \sqrt{np(1-p)}$$

Standard Deviation

Probability Distribution

$$P(X \approx x) = {n \choose x} p^x (1-p)^{n-x}$$

where 
$$x = 0, 1, 2, 3, ..., n$$

If X has a **geometric** distribution with parameter p., there

$$P(X = x) = (1-p)^{x-1}p$$

where x = 1, 2, 3, ...

$$\mu_x = \frac{1}{2}$$

Mean

$$\sigma_x = \frac{\sqrt{1-p}}{p}$$

# III. Sampling Distributions and Inferential Statistics

statistic - parameter Standardized test statistic: standard error of the statistic

Confidence interval: statistic ± (critical value)(standard error of statistic)

Chi-square statistic:  $\chi^2 = \sum \frac{\text{(observed - expected)}^2}{\text{expected}}$ 

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. The Princeton Review, Princeton Review Staff

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