

# KEY FORMULAS

Levine/Krehbiel/Berenson  
Business Statistics: A First Course, 5th ed.

Practice Test  
Exam 1 (Chapter 2)

PEARSON

## CHAPTER 3

### Sample Mean

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} \quad (3.1)$$

### Median

$$\text{Median} = \frac{n+1}{2} \text{ ranked value} \quad (3.2)$$

### Range

$$\text{Range} = X_{\text{largest}} - X_{\text{smallest}} \quad (3.3)$$

### Sample Standard Deviation

$$s = \sqrt{s^2} = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} \quad (3.5)$$

### Coefficient of Variation

$$CV = \left( \frac{s}{\bar{X}} \right) 100\% \quad (3.6)$$

### Z Scores

$$Z = \frac{X - \bar{X}}{s} \quad (3.7)$$

### Population Mean

$$\mu = \frac{\sum_{i=1}^N X_i}{N} \quad (3.8)$$

### Population Standard Deviation

$$\sigma = \sqrt{\frac{\sum_{i=1}^N (X_i - \mu)^2}{N}} \quad (3.10)$$

### First Quartile $Q_1$

$$Q_1 = \frac{n+1}{4} \text{ ranked value} \quad (3.11)$$

### Third Quartile $Q_3$

$$Q_3 = \frac{3(n+1)}{4} \text{ ranked value} \quad (3.12)$$

### Interquartile Range

$$\text{Interquartile range} = Q_3 - Q_1 \quad (3.13)$$

### Sample Covariance

$$\text{cov}(X, Y) = \frac{\sum_{i=1}^n (X_i - \bar{X})(Y_i - \bar{Y})}{n-1} \quad (3.14)$$

### Sample Correlation Coefficient

$$r = \frac{\text{cov}(X, Y)}{s_X s_Y} \quad (3.15)$$

## CHAPTER 4

### Probability of Occurrence

$$\text{Probability of occurrence} = \frac{X}{T} \quad (4.1)$$

### Marginal Probability

$$P(A) = P(A \text{ and } B_1) + P(A \text{ and } B_2) + \cdots + P(A \text{ and } B_k) \quad (4.2)$$

### General Addition Rule

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) \quad (4.3)$$

### Conditional Probability

$$P(A|B) = \frac{P(A \text{ and } B)}{P(B)} \quad (4.4a)$$

$$P(B|A) = \frac{P(A \text{ and } B)}{P(A)} \quad (4.4b)$$

# Key Formula Guide For Statistics

**Katrin Zwirgmaier**



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