

Key Formulas

From Larson/Farber *Elementary Statistics: Picturing the World*, Seventh Edition
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CHAPTER 2

$$\text{Class Width} = \frac{\text{Range of data}}{\text{Number of classes}}$$

(round up to next convenient number)

$$\text{Midpoint} = \frac{(\text{Lower class limit}) + (\text{Upper class limit})}{2}$$

$$\text{Relative Frequency} = \frac{\text{Class frequency}}{\text{Sample size}} = \frac{f}{n}$$

$$\text{Population Mean: } \mu = \frac{\sum x}{N}$$

$$\text{Sample Mean: } \bar{x} = \frac{\sum x}{n}$$

$$\text{Weighted Mean: } \bar{x} = \frac{\sum wx}{\sum w}$$

$$\text{Mean of a Frequency Distribution: } \bar{x} = \frac{\sum xf}{n}$$

$$\text{Range} = (\text{Maximum entry}) - (\text{Minimum entry})$$

$$\text{Population Variance: } \sigma^2 = \frac{\sum (x - \mu)^2}{N}$$

Population Standard Deviation:

$$\sigma = \sqrt{\sigma^2} = \sqrt{\frac{\sum (x - \mu)^2}{N}}$$

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

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

Empirical Rule (or 68-95-99.7 Rule) For data sets with distributions that are approximately symmetric and bell-shaped:

1. About 68% of the data lie within one standard deviation of the mean.
2. About 95% of the data lie within two standard deviations of the mean.
3. About 99.7% of the data lie within three standard deviations of the mean.

Chebyshev's Theorem The portion of any data set lying within k standard deviations ($k > 1$) of the mean is at least $1 - \frac{1}{k^2}$.

Sample Standard Deviation of a Frequency Distribution:

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

$$\text{Standard Score: } z = \frac{\text{Value} - \text{Mean}}{\text{Standard deviation}} = \frac{x - \mu}{\sigma}$$

CHAPTER 3

Classical (or Theoretical) Probability:

$$P(E) = \frac{\text{Number of outcomes in event } E}{\text{Total number of outcomes in sample space}}$$

Empirical (or Statistical) Probability:

$$P(E) = \frac{\text{Frequency of event } E}{\text{Total frequency}} = \frac{f}{n}$$

Probability of a Complement: $P(E^c) = 1 - P(E)$

Probability of occurrence of both events A and B :

$$P(A \text{ and } B) = P(A) \cdot P(B | A)$$

$$P(A \text{ and } B) = P(A) \cdot P(B) \text{ if } A \text{ and } B \text{ are independent.}$$

Probability of occurrence of either A or B :

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

$$P(A \text{ or } B) = P(A) + P(B) \text{ if } A \text{ and } B \text{ are mutually exclusive.}$$

Permutations of n objects taken r at a time:

$${}_nP_r = \frac{n!}{(n - r)!}, \text{ where } r \leq n$$

Distinguishable Permutations: n_1 alike, n_2 alike, \dots , n_k alike:

$$\frac{n!}{n_1! \cdot n_2! \cdot n_3! \cdot \dots \cdot n_k!},$$

$$\text{where } n_1 + n_2 + n_3 + \dots + n_k = n$$

Combinations of n objects taken r at a time:

$${}_nC_r = \frac{n!}{(n - r)!r!}, \text{ where } r \leq n.$$

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Rachel S Tattersall



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 - The Rise of Digital Reading Elementary Statistics Larson 4th Edition Formula Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Statistics Larson 4th Edition Formula Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elementary Statistics Larson 4th Edition Formula Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Statistics Larson 4th Edition Formula Sheet
 - Personalized Recommendations
 - Elementary Statistics Larson 4th Edition Formula Sheet User Reviews and Ratings
 - Elementary Statistics Larson 4th Edition Formula Sheet and Bestseller Lists

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 - Elementary Statistics Larson 4th Edition Formula Sheet Budget-Friendly Options
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 - Elementary Statistics Larson 4th Edition Formula Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elementary Statistics Larson 4th Edition Formula Sheet
 - Highlighting and Note-Taking Elementary Statistics Larson 4th Edition Formula Sheet
 - Interactive Elements Elementary Statistics Larson 4th Edition Formula Sheet
8. Staying Engaged with Elementary Statistics Larson 4th Edition Formula Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elementary Statistics Larson 4th Edition Formula Sheet
9. Balancing eBooks and Physical Books Elementary Statistics Larson 4th Edition Formula Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elementary Statistics Larson 4th Edition Formula Sheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Elementary Statistics Larson 4th Edition Formula Sheet
 - Setting Reading Goals Elementary Statistics Larson 4th Edition Formula Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Elementary Statistics Larson 4th Edition Formula Sheet
 - Fact-Checking eBook Content of Elementary Statistics Larson 4th Edition Formula Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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