

Sample - Population - Probability - Other

Formulas: Chapters 1-3

\bar{x} = sample mean

μ = population mean

Sample mean formula:

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

- Σ = "sum of"
- n = number of x 's

Sample variance formula:

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

Sample standard deviation formula:

$$\sqrt{s^2}$$

Population variance formula:

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

Population standard deviation

formula:

$$\sqrt{\sigma^2}$$

Chebychev's rule:

$$(1 - \frac{1}{k^2})$$

Sample z-score formula:

$$z = \frac{x - \bar{x}}{s}$$

Population z-score formula:

$$z = \frac{x - \mu}{\sigma}$$

Combinations rule:

$$\binom{N}{n} = \frac{N!}{n!(N-n)!}$$

Probability of an event:

$$P(\text{event}) = \frac{\text{number of ways Event can happen}}{\text{all possible outcomes}}$$

Rule of complements:

$$P(A) + P(A^c) = 1$$

Additive rule of probability:

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

Additive rule of probability for mutually exclusive events:

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

Conditional probability formula:

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

Multiplicative Rule of Probability:

$$P(A \cap B) = P(B) \times P(A|B)$$

Multiplicative Rule of Probability of events are independent:

$$P(A \cap B) = P(A) \times P(B)$$

Elementary Statistics Formulas Cheat Sheet

**Robert Johnson, Robert Russell
Johnson**



Elementary Statistics Formulas Cheat Sheet:

Elementary Statistics in Behavioral Research James Alan Fox, Jack Levin, Steven Harkins, 1993 **Elementary Statistical Methods** Helen Mary Walker, Joseph Lev, 1958 **The Best Web Sites for Teachers** Vicki F. Sharp, Martin G. Levine, Richard M. Sharp, 2002 *The British National Bibliography* Arthur James Wells, 2002 **Current Index to Journals in Education**, 1980 Library Media Connection, 2000 Formula Card for Elementary Statistics: A Brief Version Allan Bluman, 2014-10-13 **Elementary Statistics Using Excel** Larry A. Morgan, Mario F. Triola, 2000-10-26

Study Guide Elementary Statistics Robert Johnson, Robert Russell Johnson, 1988-02 **Elementary Statistics** Allan G. Bluman, 2001 New edition of a beginning statistics text for students whose mathematical background is limited to basic algebra Bluman Community College of Allegheny County uses a nontheoretical approach in which concepts are explained intuitively and are supported by examples There are no formal proofs and the applications include problems from business economics health medicine science engineering social science education and topics of general interest Each of the eight chapters begins with an outline and a list of learning objectives Contains a removable foldout of important formulas Annotation copyrighted by Book News Inc Portland OR *Study Guide with Self-correcting Exercises for Elementary Statistics* Robert Johnson, 1980 **Elementary Statistics in Social Research** Jack Levin, James Alan Fox, 2000 This best selling book in the field provides a broad fluent introduction to statistics for readers in the social sciences especially those with a limited background in mathematics This book focuses on the hows and whys of statistics as Levin and Fox integrate theory and practice with detailed step by step illustrations of statistical procedures Clear explanations of statistical concepts are also provided A review of basic mathematics statistical tables a list of formulas and a glossary of terms are located in the appendixes at the end of the book For readers in the social sciences field who seek an introduction to statistics Incorporates a new Looking at the Larger Picture feature at the end of each part to help students see statistical analysis in a broader context Updates many problems and illustrations with new data Includes new information on the weighted mean at the request of current users Provides clear logical explanations for the rationale and use of statistical methods in social research Includes a Step by Step Study Guide for all major statistical procedures at the end of each chapter Accommodates courses focused on the basic concepts of statistics *Elementary Statistics* Bluman, 2014-12-01 Elementary Statistics Allan G. Bluman, 1993-05-01 New edition of a beginning statistics text for students whose mathematical background is limited to basic algebra Bluman Community College of Allegheny County uses a nontheoretical approach in which concepts are explained intuitively and are supported by examples There are no formal proofs and the applications include problems from business economics health medicine science engineering social science education and topics of general interest Each of the eight chapters begins with an outline and a list of learning objectives Contains a removable foldout of important formulas Annotation copyrighted by Book News Inc Portland OR **Elementary Statistics** Milton Wayne Loyer, Triola, 2000-06

Provides detailed worked out solutions to all odd numbered exercises **Mathematics Essential for Elementary Statistics** Helen Mary Walker, 1934 Elementary Statistics Mario F. Triola, 1998 New edition of a beginning statistics text for students whose mathematical background is limited to basic algebra Bluman Community College of Allegheny County uses a nontheoretical approach in which concepts are explained intuitively and are supported by examples There are no formal proofs and the applications include problems from business economics health medicine science engineering social science education and topics of general interest Each of the eight chapters begins with an outline and a list of learning objectives Contains a removable foldout of important formulas Annotation copyrighted by Book News Inc Portland OR Loose Leaf Elementary Statistics with Formula Card Allan Bluman, 2014-01-27 Loose Leaf Version for Elementary Statistics, Brief with Data CD and Formula Card Allan Bluman, 2012-01-10 Elementary Statistics: A Step by Step Approach with Formula Card and Connect hosted by ALEKS Access Card Allan Bluman, 2013-10-16

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