

Formula Card for Johnson & Kuby, ELEMENTARY STATISTICS, Eleventh Edition

Sample mean:

$$\bar{x} = \frac{\sum x}{n} \quad (2.1)$$

Depth of sample median:

$$d(\bar{x}) = (n + 1)/2 \quad (2.2)$$

Range: $H - L$

$$(2.4)$$

Sample variance:

$$s^2 = \frac{\sum (x - \bar{x})^2}{n - 1} \quad (2.5)$$

or

$$s^2 = \frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n - 1} \quad (2.9)$$

Sample standard deviation:

$$s = \sqrt{s^2} \quad (2.6)$$

Chebyshev's theorem: at least $1 - (1/k^2)$ (p. 99)

Sum of squares of x :

$$SS(x) = \sum x^2 - (\sum x)^2/n \quad (2.8)$$

Sum of squares of y :

$$SS(y) = \sum y^2 - (\sum y)^2/n \quad (3.3)$$

Sum of squares of xy :

$$SS(xy) = \sum xy - (\sum x \cdot \sum y)/n \quad (3.4)$$

Pearson's correlation coefficient:

$$r = SS(xy) / \sqrt{SS(x) \cdot SS(y)} \quad (3.2)$$

Equation for line of best fit: $\hat{y} = b_0 + b_1x$ (p. 146)

Slope for line of best fit: $b_1 = SS(xy)/SS(x)$ (3.6)

y -intercept for line of best fit:

$$b_0 = (\sum y - (b_1 \cdot \sum x))/n \quad (3.7)$$

Empirical (observed) probability:

$$P(A) = n(A)/n \quad (4.1)$$

Theoretical probability for equally likely sample space:

$$P(A) = n(A)/n(S) \quad (4.2)$$

Complement rule:

$$P(\text{not } A) = P(\bar{A}) = 1 - P(A) \quad (4.3)$$

General addition rule:

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) \quad (4.4)$$

General multiplication rule:

$$P(A \text{ and } B) = P(A) \cdot P(B|A) \quad (4.5)$$

Special addition rule for mutually exclusive events:

$$P(A \text{ or } B \text{ or } \dots \text{ or } E) = P(A) + P(B) + \dots + P(E) \quad (4.6)$$

Special multiplication rule for independent events:

$$P(A \text{ and } B \text{ and } \dots \text{ and } E) = P(A) \cdot P(B) \cdot \dots \cdot P(E) \quad (4.7)$$

Mean of discrete random variable:

$$\mu = \sum [xP(x)] \quad (5.1)$$

Variance of discrete random variable:

$$\sigma^2 = \sum [x^2P(x)] - (\sum [xP(x)])^2 \quad (5.3a)$$

Standard deviation of discrete random variable:

$$\sigma = \sqrt{\sigma^2} \quad (5.4)$$

Factorial: $n! = (n)(n - 1)(n - 2) \dots \cdot 2 \cdot 1$ (p. 248)

Binomial coefficient:

$$\binom{n}{x} = \frac{n!}{x!(n - x)!} \quad (5.6)$$

Binomial probability function:

$$P(x) = \binom{n}{x} \cdot p^x \cdot q^{n-x}, \quad x = 0, 1, 2, \dots, n \quad (5.5)$$

Mean of binomial random variable: $\mu = np$ (5.7)

Standard deviation, binomial random variable:

$$\sigma = \sqrt{npq} \quad (5.8)$$

$$\text{Standard score: } z = (x - \mu)/\sigma \quad (6.3)$$

$$\text{Standard score for } \bar{x}: z = \frac{\bar{x} - \mu}{\sigma/\sqrt{n}} \quad (7.2)$$

Confidence interval for mean, μ (σ known):

$$\bar{x} \pm z_{\alpha/2} \cdot (\sigma/\sqrt{n}) \quad (8.1)$$

Sample size for $1 - \alpha$ confidence estimate for μ :

$$n = [z_{\alpha/2} \cdot \sigma/E]^2 \quad (8.3)$$

Calculated test statistic for $H_0: \mu = \mu_0$ (σ known):

$$z^* = (\bar{x} - \mu_0)/(\sigma/\sqrt{n}) \quad (8.4)$$

Confidence interval estimate for mean, μ

(σ unknown):

$$\bar{x} \pm t_{\alpha/2, df} \cdot (s/\sqrt{n}) \text{ with } df = n - 1 \quad (9.1)$$

Calculated test statistic for $H_0: \mu = \mu_0$ (σ unknown):

$$t^* = \frac{\bar{x} - \mu_0}{s/\sqrt{n}} \text{ with } df = n - 1 \quad (9.2)$$

Confidence interval estimate for proportion, p :

$$p' \pm z_{\alpha/2} \cdot \sqrt{(p'q')/n}, \quad p' = x/n \quad (9.6)$$

Calculated test statistic for $H_0: p = p_0$:

$$z^* = (p' - p_0) / \sqrt{(p_0q_0)/n}, \quad p' = x/n \quad (9.9)$$

Calculated test statistic for $H_0: \sigma^2 = \sigma_0^2$ or $\sigma = \sigma_0$:

$$\chi^2 = (n - 1)s^2/\sigma_0^2, \quad df = n - 1 \quad (9.10)$$

Mean difference between two dependent samples:

$$\text{Paired difference: } d = x_1 - x_2 \quad (10.1)$$

Confidence interval for mean difference, μ_d :

$$\bar{d} \pm t_{\alpha/2, df} \cdot s_d/\sqrt{n} \text{ with } df = n - 1 \quad (10.2)$$

Sample mean of paired differences:

$$\bar{d} = \sum d/n \quad (10.3)$$

Elementary Statistics W 2 Cds Excelman

Mario F. Triola



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Elementary Statistics Allan G. Bluman, 2013 ELEMENTARY STATISTICS A BRIEF VERSION is for introductory statistics courses with a basic algebra prerequisite. The book is non-theoretical, explaining concepts intuitively and teaching problem solving through worked examples and step-by-step instructions. In recent editions, Al Bluman has placed more emphasis on conceptual understanding and understanding results along with increased focus on Excel, MINITAB, and the TI 83 Plus and TI 84 Plus graphing calculators, computing technologies commonly used in such courses. The 6th edition of Bluman's *Elementary Statistics: A Brief Version* provides a significant leap forward in terms of online course management with McGraw-Hill's homework platform Connect Statistics, Hosted by ALEKS. Statistic instructors served as digital contributors to choose the problems that will be available, authoring each algorithm and providing stepped-out solutions that go into great detail and are focused on areas where students commonly make mistakes. From there, the ALEKS Corporation reviewed each algorithm to ensure accuracy. The result is an online homework platform that provides superior content and feedback, allowing students to effectively learn the material being taught.

Elementary Statistics: a Step by Step Approach with CD Bluman, 2003-06 Allan Bluman explains the basics of statistics in an intuitive and non-theoretical way using worked examples and step-by-step instructions. This edition places more emphasis on conceptual understanding and Excel, MINITAB, and other computing technologies. [Loose Leaf Version for Elementary Statistics: A Step by Step Approach with Data CD and Formula Card](#)

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web the timing belt allows the crankshaft to drive the camshafts in the cylinder head at half the rpms of the crankshaft the camshafts then open and close the engine s intake and exhaust valves in time with the movement and position of the pistons in the engine when to replace the timing belt every 60k 90k miles

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