

Symbols

n	Sample Size		$z_{\alpha/2}$	Critical Value for Standard Normal Dis
N	Population Size		z	z -Test Statistic
Σ	Sum		df	Degrees of Freedom
\bar{x}	Sample Mean		$t_{\alpha/2}$	Critical Value for t-Distribution
μ	Population Mean		t	t Test Statistic
s	Sample Standard Deviation		D	Difference
σ	Population Standard Deviation		\bar{D}	Mean of the Differences
s^2	Sample Variance		s_D	Standard Deviation of the Differences
σ^2	Population Variance		F	F Test Statistic
CV	Coefficient of Variation		F_{α}	F Critical Value
z	Z-score		χ^2	Chi-Square Test Statistic
IQR	Interquartile Range		χ^2_{α}	Chi-Square Critical Value
P_i	Percentile		E	Expected Value
Q_i	Quartile		O	Observed Value
$P(x)$	Probability of $X = x$		k	Number of Groups
A^C	Complement Rule		SS	Sum of Squares
$A \cap B$	Intersection		MS	Mean Square
$A \cup B$	Union		r	Sample Correlation Coefficient
$A B$	Conditional Probability		ρ	Population Correlation Coefficient
$n!$	Factorial Rule		R	Multiple Correlation Coefficient
${}_nC_r$	Combination Rule		R^2	Coefficient of Determination
${}_nP_r$	Permutation Rule		$1 - R^2$	Coefficient of Nondetermination
p	Probability of a Success		\hat{y}	Predicted Value of the Regression Equa
q	Probability of a Failure		b_0	Sample Y-Intercept Coefficient
p	Population Proportion		b_1	Population Slope Coefficient
p	P-value		e_i	Residual
α	Significance Level = P(Type I Error) = False Positive Rate		$s_{est} = s$	Standard Error of Estimate = Standard
$1 - \alpha$	P(True Negative)		p	Number of predictors in regression
β	P(Type II Error) = False Negative Rate		ε	Error term in regression
$1 - \beta$	Power = P(True Positive)		R	Sum of the Ranks
H_0	Null Hypothesis		w_s	Wilcoxon Signed-Rank Test Statistic
$H_1 = H_a$	Alternative Hypothesis		U	Mann-Whitney U Test Statistic