



| Minitab Analysis - General Menu routine |                         |                                                                                                                                     |
|-----------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| S.No.                                   | Application             | Menu                                                                                                                                |
| 1                                       | Descriptive Statistics  | Stat > Basic Stat > Display Descriptive Stat<br>Stat > Basic Stat > Store Descriptive Stat<br>Stat > Basic Stat > Graphical summary |
| 2                                       | Normality test          | Stat > Basic Stat > Normality test                                                                                                  |
| 3                                       | Test of Hypothesis      |                                                                                                                                     |
|                                         | t - test                | Stat > Basic Stat > 1 sample t<br>Stat > Basic Stat > 2 sample t<br>Stat > Basic Stat > paired t                                    |
|                                         | Z - test                | Stat > Basic Stat > 1 sample Z                                                                                                      |
|                                         | P-test/Proportions test | Stat > Basic Stat > 1 proportion<br>Stat > Basic Stat > 2 proportion                                                                |
|                                         | Variance test           | Stat > Basic Stat > 1 Variance<br>Stat > Basic Stat > 2 Variance                                                                    |
|                                         | ANOVA                   | Stat > ANOVA > One way                                                                                                              |
| 4                                       | Correlation             | Stat > Basic Stat > Correlation                                                                                                     |
| 5                                       | Main effect Plot        | Stat > ANOVA > Main effect plot                                                                                                     |



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| 6  | Interaction plot            | Stat > ANOVA > Interaction plot                                 |
| 7  | Multi-vari plot             | Stat > Quality tools > Multi vari chart                         |
| 8  | Capability Study            | Stat > Quality tools > Capability Analysis > Normal             |
|    | Capability Study (Summary)  | Stat > Quality tools > Capability Summary > Normal              |
| 9  | Measurement System Analysis |                                                                 |
|    | Gage R & R                  | Stat > Quality tools > Gage study > Gage R & R > Crossed        |
|    | Linearity & Bias            | Stat > Quality tools > Gage study > Gage Linearity & Bias Study |
| 10 | Graphs                      |                                                                 |
|    | Scatter Plot                | Graph > Scatter plot                                            |
|    | Time series plot            | Graph > Time series plot                                        |
|    |                             | Stat > Time Series > Time Series plot                           |
|    | Pareto Chart                | Stat > Quality tools > Pareto Chart                             |
|    | Cause & Effect Diagram      | Stat > Quality tools > Cause & Effect                           |
|    | Histogram                   | Graph > Histogram                                               |
|    | Box Plot                    | Graph > Box plot                                                |
|    | Bar Chart                   | Graph > Bar Chart                                               |
|    | Pie Chart                   | Graph > Pie Chart                                               |



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| 11 | Regression                                 |                                                                            |
|    | Simple Linear Regression                   | Stat > Regression > Fitted Line plot                                       |
|    | Simple Linear Regression with prediction   | Stat > Regression > Regression > Fit regression model                      |
|    | Multiple Linear Regression with prediction | Stat > Regression > Regression > Fit regression model                      |
|    | Simple Binary Logistic Regression          | Stat > Regression > Binary Fitted Line plot                                |
|    | Multiple Binary Logistic Regression        | Stat > Regression > Binary Logistic Regression > Fit Binary Logistic Model |
|    | Nominal Logistic Regression                | Stat > Regression > Nominal Logistic Regression                            |
|    | Ordinal Logistic Regression                | Stat > Regression > Ordinal Logistic Regression                            |
| 12 | Forecasting                                |                                                                            |
|    | Trend Analysis                             | Stat > Time Series > Trend Analysis                                        |
|    | Moving Average                             | Stat > Time Series > Moving Average                                        |
|    | Decomposition                              | Stat > Time Series > Decomposition                                         |
|    | Single Exponential Smoothing               | Stat > Time Series > Single Exp. Smoothing                                 |
|    | Double Exponential Smoothing               | Stat > Time Series > Double Exp. Smoothing                                 |
|    | Winter's Method                            | Stat > Time Series > Winter's method                                       |
| 13 | Design of Experiments                      |                                                                            |
|    | To create a design                         | Stat > DOE > Factorial > Create Factorial Design                           |
|    | To analyze the design                      | Stat > DOE > Factorial > Analyze Factorial Design                          |



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| 14 | Control Charts  |                                                                    |
|    | X Bar - R Chart | Stat > Control Charts > Variable Charts for Sub groups > X Bar - R |
|    | X Bar - S Chart | Stat > Control Charts > Variable Charts for Sub groups > X Bar - S |
|    | I - MR Chart    | Stat > Control Charts > Variable Charts for Individuals > I - MR   |
|    | P - Chart       | Stat > Control Charts > Attribute Charts > P                       |
|    | NP Chart        | Stat > Control Charts > Attribute Charts > NP                      |
|    | C Chart         | Stat > Control Charts > Attribute Charts > C                       |
|    | U Chart         | Stat > Control Charts > Attribute Charts > U                       |