Quality Control

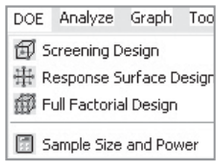
Starting point: **Graph** menu

Task	Menu Selection
Control Charts 1. X-bar 2. Individual Measurements (IR) 3. p Chart 4. u Chart 5. CUSUM	 1. Graph > Control Chart > XBar 2. Graph > Control Chart > IR 3. Graph > Control Chart > P 4. Graph > Control Chart > U 5. Graph > Control Chart > CUSUM
Pareto	Graph > Pareto Plot

Design of Experiments (DOE)

Starting point: **DOE** menu

Task	Menu Selection
Factorial Design	1. DOE > Full Factorial Design 2. DOE > Screening Design
Screening Design	DOE > Screening Design
Response Surface Design	DOE > Response Surface Design
Sample Size and Power Calculations	DOE > Sample Size and Power



For complete information and tutorials, please refer to the documentation available on line in the JMP® 6 Student Edition software under Help > Books > Using JMP Student Edition. For more information about the JMP 6 Student Edition see **www.jmp.com/se**.

JMP® 6 Student Edition

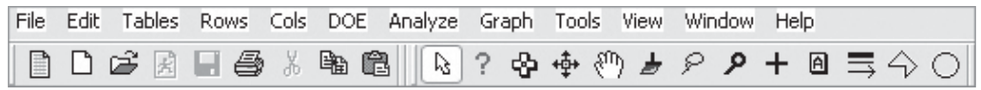
Quick Reference Guide

This Quick Reference Guide complements classroom instruction in introductory and intermediate statistics courses that use JMP 6 Student Edition software.

Instructions presume that a data table is open and that the student uses the appropriate variables of interest.

In this guide, the symbol > indicates a menu path. The symbol ▼ indicates a pulldown menu option on a graph, report or dialog box.

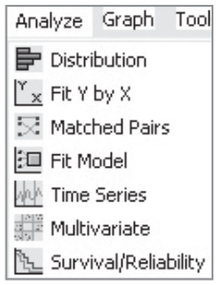
Main Menu

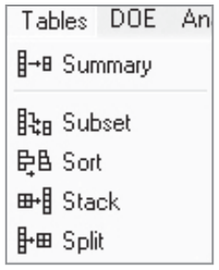


Basic Statistics

Starting points: **Analyze** and **Tables** menus

Task	Menu Selection
Descriptive Statistics	1. Analyze > Distribution; Select ▼ Display Options > More Moments 2. Tables > Summary
z- or t-test 1. 1-Sample 2. 2-Sample 3. Paired t	 1. Analyze > Distribution; Select ▼ Test Mean 2. Analyze > Fit Y by X; Select ▼ t Test or Means/ANOVA/Pooled t 3. Analyze > Matched Pairs
Testing Proportions (Make 0/1 indicator Nominal or Ordinal) 1. 1 Proportion 2. 2 Proportion	 1. Analyze > Distribution; Select ▼ Test Probabilities 2. Analyze > Fit Y by X
Contingency Table – Chi-Square Test	Analyze > Fit Y by X
Covariance	Analyze > Multivariate; Select ▼ Covariance Matrix
Correlation	Analyze > Multivariate
Test for Normality or Goodness of Fit	Analyze > Distribution; Select ▼ Fit Distribution > Normal; Select ▼ by Fitted Normal > Goodness of Fit

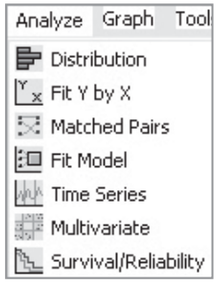




Graphs

Starting points: **Analyze** and **Graph** menus

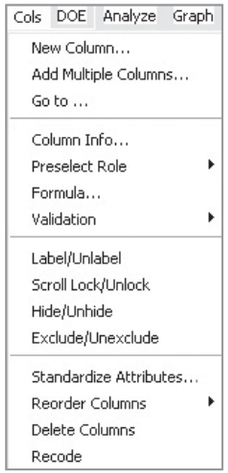
Task	Menu Selection
Frequency Distribution	Analyze > Distribution
Histogram	Analyze > Distribution
Bar Chart	Graph > Chart
Pie Chart	Graph > Chart; Select ▼ Options > Pie Chart
Stem-and-Leaf Display	Analyze > Distribution Select ▼ Stem and Leaf
Scatter Plot	1. Analyze > Fit Y by X (Bivariate) 2. Graph > Overlay Plot
Line Chart	Graph > Overlay Plot Select ▼ Y Options > Connect Points
Box Plot 1. One Level 2. Two or More Levels	1. Analyze > Distribution 2. Analyze > Fit Y by X Select ▼ Display Options > Box Plots

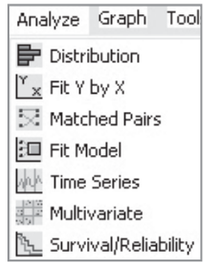


Probability/Random Variables

Starting points: **Cols** (Columns) and **Analyze** menus

Task	Menu Selection
Probability Variables	Cols > New Column; Select Column Properties > Formula; Select Probability from Functions Window; Select desired probability function *Note: For more information on the expected parameters, see online Help for Probability Functions.*
Random Variables	Cols > New Column; Select Column Properties > Formula; Select Random from Functions Window; Select desired Random function *Note: For more information on the expected parameters, see online Help for Random Functions.*
Distribution Fitting	Analyze > Distribution; Select ▼ Fit Distribution > Normal, LogNormal or Weibull

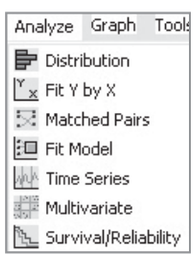




Time Series

Starting point: **Analyze** menu

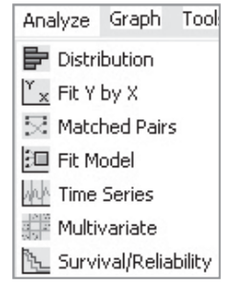
Task	Menu Selection
Time Series Plot	Analyze > Time Series
Moving Averages	Analyze > Time Series; Select ▼ ARIMA
Exponential Smoothing	Analyze > Time Series Select ▼ Smoothing Model
Holt-Winters Method	Analyze > Time Series Select ▼ Smoothing Model > Winters Method



Regression

Starting point: **Analyze** menu

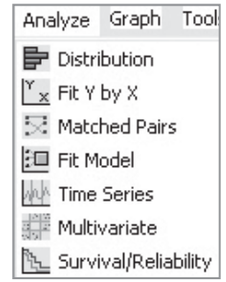
Task	Menu Selection
Scatter Plot	1. Analyze > Fit Y by X (Bivariate) 2. Graph > Overlay
Simple Least Squares or Logistic Regression 1. One Independent Variable 2. One or More Independent Variables	1. Analyze > Fit Y by; Select ▼ Fit Line 2. Analyze > Fit Model
Multiple Regression	Analyze > Fit Model
Stepwise Regression	Analyze > Fit Model; Select ▼ Personality > Stepwise
Residual Analysis	Analyze > Fit Model; Run Model Select ▼ Row Diagnostics
Durbin-Watson Test	Analyze > Fit Model; Run Model Select ▼ Row Diagnostics > Durban Watson Test



Analysis of Variance

Starting point: **Analyze** menu

Task	Menu Selection
One Way	Analyze > Fit Y by X; Select ▼ Means/Anova/Pooled t
Two or More Factors	Analyze > Fit Model
Randomized Blocks	Analyze > Fit Y by X (include column in Block role)
Multiple Comparison Methods	Analyze > Fit Y by X; Select ▼ Means/Anova/Pooled t; Select ▼ Compare Means
Test for Equal/Unequal Variances	Analyze > Fit Y by X; Select ▼ Means/Anova/Pooled t Select ▼ Unequal Variances



Nonparametric techniques

Starting point: **Analyze** menu

Task	Menu Selection
Wilcoxon Rank Sum Test	Analyze > Fit Y by X; Select ▼ Nonparametric > Wilcoxon Test
Fishers Sign Test (for 2x2 tables only)	Analyze > Fit Y by X
Wilcoxon Signed Rank Sum Test	Analyze > Distribution Select ▼ Test Mean (check Wilcoxon Signed Rank box)
Kruskal-Wallis Test	Analyze > Fit Y by X Select ▼ Nonparametric > Wilcoxon Test
Spearman's Rho	Analyze > Multivariate Select ▼ Nonparametric Correlations > Spearman's Rho