

SPSS Tests for Versions 9 to 13

Chapter 2

Descriptive Statistic (including median)

- Choose Analyze | Descriptive statistics | Frequencies...
- Click on variable(s) then press to move to into Variable(s): list
- Press Statistics button
 - Check Mean, Median and Mode
 - Check Std. deviation, Variance, Range and/or S. E. mean
- Press Continue
- Press OK and view Output

Descriptive Statistic (alternate procedure excluding median)

- Choose Analyze | Descriptive statistics | Descriptives...
- Click on variable(s) then press to move to into Variable(s): list
- Press Options button
 - Check Mean
 - Check Std. deviation, Variance, Range and/or S. E. mean
- Press Continue
- Press OK and view Output

Chapter 6

Confidence Interval

- Choose Analyze | Compare Means | One-Sample T test...
- Click on dependent variable then press to move to into Test Variable(s): list
- Enter 0 in Test Value: box
- Press Options button
 - Enter Confidence Interval
- Press Continue
- Press OK and view Output

Chapter 7

Single Sample z-test or t-test

- Choose Analyze | Compare Means | One-Sample T test...
- Click on dependent variable then press to move to into Test Variable(s): list
- Enter population mean in Test Value: box
- Press Options button
 - Enter Confidence Interval (100%- α)
- Press Continue
- Press OK and view Output

Chapter 8

Independent Groups t-test (Equal and Unequal Variances)

- Choose Analyze | Compare Means | Independent-Samples T test...
- Click on dependent variable then press to move to Test Variable(s) List:
- Click on grouping variable then press to move to Grouping Variables: list
- Press Define Groups button
- Enter values for Group 1 and Group 2
- Press Continue
- Press Options button
- Enter Confidence Interval (100%- α)
- Press Continue
- Press OK and view Output
- Based on Levene's Test for Equality of Variances use t-value from either "Equal variance assumed" or "Equal variances not assumed" rows

Dependent Groups t-test

- Choose Analyze | Compare Means | Paired-Samples T test...
- Click on the two variables then press button to move to Paired Variable(s): list
- Press Options button
- Enter Confidence Interval (100%- α)
- Press Continue
- Press OK and view Output

Chapter 9

Scattergram

- Choose Graphs | Scatter...
- Press Simple icon
- Press Define button
- Click dependent (Y) variable then press to move to Y Axis: box
- Click independent (X) variable then press to move to X Axis: box
- Press OK and view Output

Pearson (Linear) Correlation

- Choose Analyze | Correlate | Bivariate...
- Click on the variables then press to move to Variable(s): list
- Check Pearson
- Press Options button
- Check Means and standard deviations
- Press Continue
- Press OK and view Output

Linear Regression

- Choose Analyze | Regression | Linear...
- Click dependent (Y) variable then press to move to Dependent: list
- Click independent (X) variable then press to move to Independent(s): list
- Press Options button
 - Check Means and standard deviations
 - Press Continue
- Press OK and view Output

Chapter 10

Chi-square Goodness-of-fit Test

- Choose Statistics | Nonparametric Tests | Chi-square
- Click on variable then press to move to Test Variable List
- Press OK and view Output

Chi-square Test for Independence

- Choose Analyze | Descriptive Statistics | Crosstabs
- Click on variables then press to move to Row(s) and Column(s) lists
- Press Statistics... button
 - Check Chi-square
 - Press Continue
- Press Cells... button
 - Check Expected
 - Press Continue
- Press OK button and view Output

Chapter 11

Analysis of Variance (One-way Factorial)

- Choose Analyze | Compare Means | One-way ANOVA...
- Click on dependent variable then press to move to Dependent list
- Click on grouping variable then press to move to Factor list
- Press Post Hoc button
 - Select *post hoc* test (Scheffé or Tukey)
 - Press Continue
- Press Options button
 - Check Descriptives
 - Check Means Plots
 - Press Continue
- Press OK and view Output

Analysis of Variance (alternate One-way Factorial)

Choose Analyze | General Linear Model | Univariate...

Click on dependent variable then press to move to Dependent Variable: list

Click on grouping variable then press to move to Fixed Factor(s): list

Press Post Hoc button

Click grouping variable then press to move to Post Hoc Tests for: list

Select *post hoc* test(s) (e.g., Scheffé or Tukey)

Press Continue

Press Options button

Check Descriptive statistics

Check Homogeneity tests

Press Continue

Press OK and view Output

Analysis of Variance (One-way Repeated Measures)

Choose Analyze | General Linear Model | Repeated Measures...

Enter name for repeated measure in Within-subject Factor Name: box

Enter number of levels of repeated measure in Number of Levels: box

Press Add button

Press Define

Click on each repeated measure then to move to Within-subject
Variables (factor1): list

Press Options button

Check Descriptive statistics

Press Continue

Press OK and view Output

Analysis of Variance (Two-way Factorial)

Choose Analyze | General Linear Model | Univariate...

Click on dependent variable then press to move to Dependent Variable: list

Click on each grouping variable then press to move to Fixed Factor(s): list

Press Post Hoc button

Click grouping variable then press to move to Post Hoc Tests for: list

Select *post hoc* test(s) (e.g., Scheffé or Tukey)

Press Continue

Press Options button

Check Descriptive statistics

Check Homogeneity tests

Press Continue

Press OK and view Output

Analysis of Variance (Two-way Mixed Design)

Choose Analyze | General Linear Model | Repeated Measures...

Enter name for repeated measure in Within-subject Factor Name: box

Enter number of levels of repeated measure in Number of Levels: box

Press Add button

Press Define

Click on each repeated measure then to move to Within-subject

Variables: list

Click on independent (grouping) variable to move to Between-subject

Factor(s): list

Press Post Hoc button

Click grouping variable then press to move to Post Hoc Tests
for: list

Select *post hoc* test(s) (e.g., Scheffé or Tukey)

Press Continue

Press Options button

Check Descriptive statistics

Check Homogeneity tests

Press Continue

Press OK and view Output

Chapter 12

Wilcoxon Rank Sum Test or Mann-Whitney U Test

Choose Statistics | Nonparametric Tests | 2 Independent Samples...
 Click on dependent variable then press to move to Test Variable List:
 Click on grouping variable then press to move to Grouping Variable: list
 Press Define Groups... button
 Enter values for Group 1 and Group 2
 Press Continue
 Check Mann-Whitney U
 Press Options button
 Check Descriptive
 Press Continue
 Press OK and view Output
 Use Z value from Test Statistics table

Wilcoxon Signed-Rank Test and Sign Test

Choose Statistics | Nonparametric Tests | 2 Related Samples...
 Click on two variables then press to move to Test Pair(s) List:
 Check Wilcoxon and/or Sign
 Press Options button
 Check Descriptive
 Press Continue
 Press OK and view Output

Kruskal-Wallis Test

Choose Statistics | Nonparametric Tests | K Independent Samples...
 Click on dependent variable then press to move to Test Variable List:
 Click on grouping variable then press to move to Grouping Variables: list
 Press Define Range... button
 Enter minimum and maximum values
 Press Continue
 Check Kruskal-Wallis H
 Press Options button
 Check Descriptive
 Press Continue
 Press OK and view Output
 Use Chi-Square from Test Statistics table

Spearman Correlation

Choose Analyze | Correlate | Bivariate...
 Click on the variables then press to move to Variable(s): list
 Check Spearman and uncheck Pearson
 Press OK and view Output