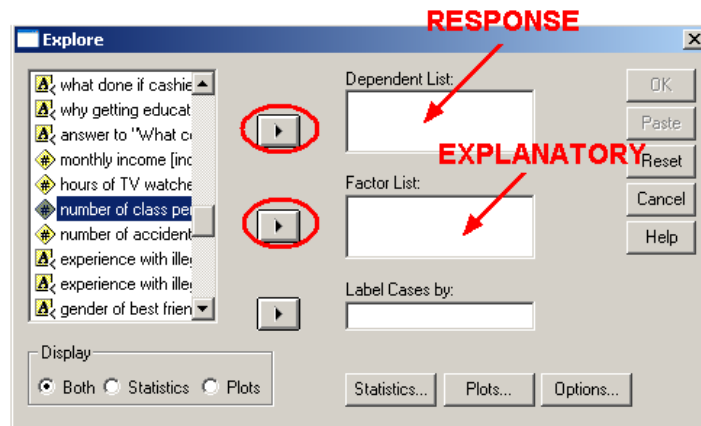


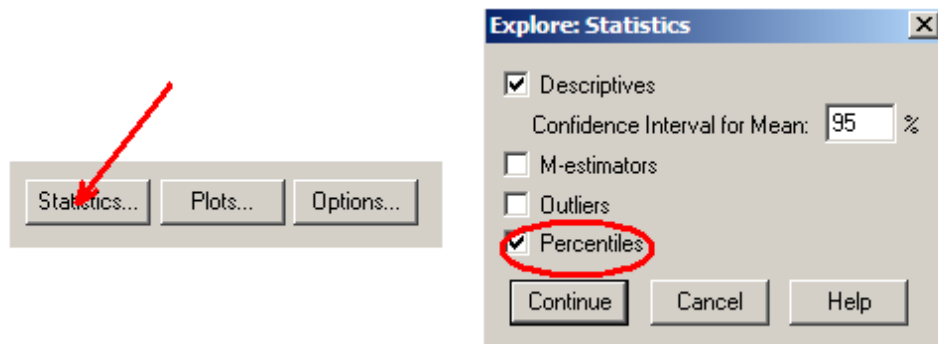
## Looking for associations between numeric and categorical variables

### Creating a table of measures by category, multiple histograms, side by side box plots, and multiple normal quantile plots

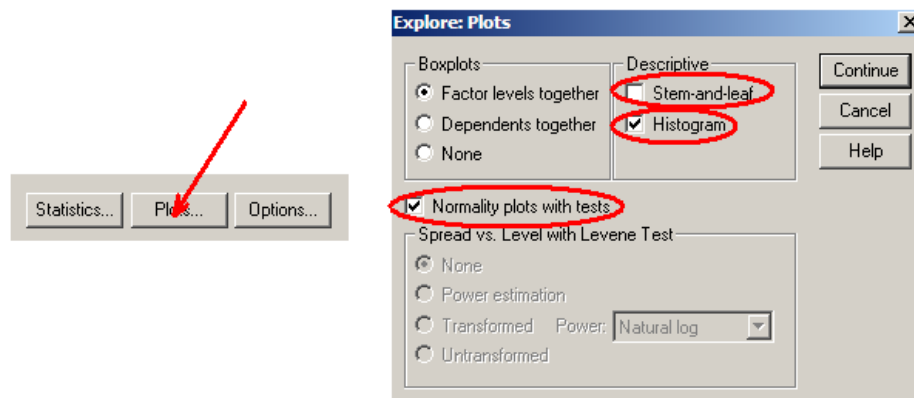
- 1) Once the data are entered into SPSS, go to Analyze→Descriptive Statistics→Explore...
- 2) Select the response variable on the left, then click the top right arrow button to move it to the Dependent list.
- 3) Select the explanatory variable, then click the middle right arrow button to move it to the Factor list



To include percentiles in the output, click the “Statistics” button, and then check “Percentiles”, then click Continue

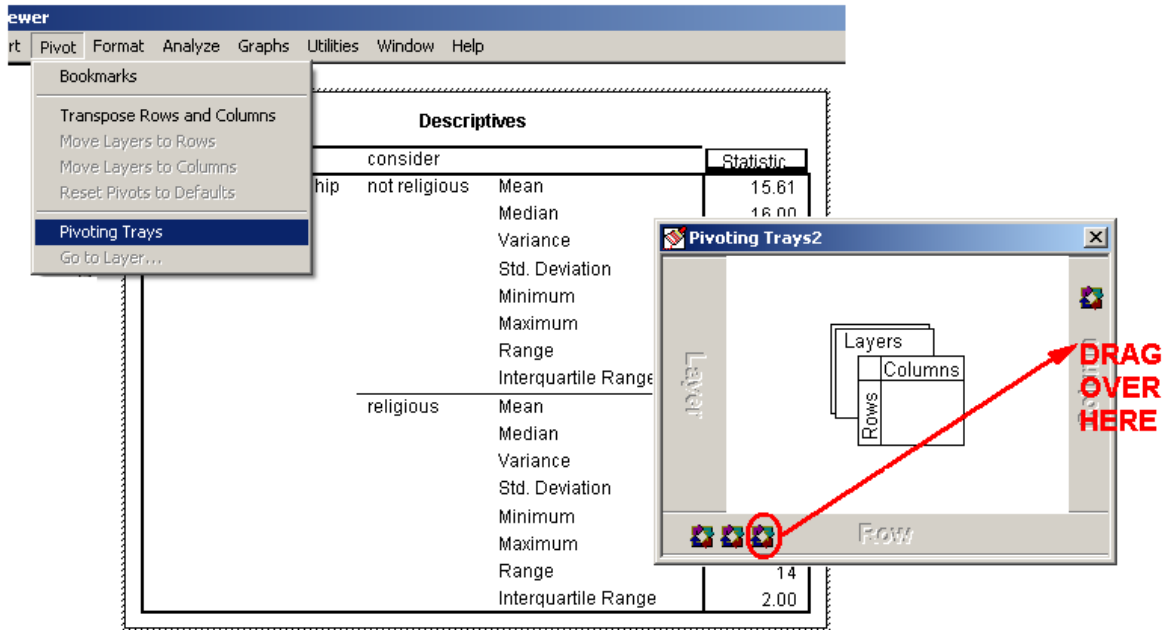


To get a histogram and normal quantile plot, click the “Plots” button, and then UNCHECK “Stem-and-Leaf”, check “Histogram”, check “Normality Plots with tests”, then Continue



## Format changes (see numeric variables in SPSS for those not shown)

To change the format of the table of measures (so that each measure can be viewed side by side), double click the table in the output window to open the chart editor. On the toolbar, select Pivot → Pivoting Trays. Then when the pivoting tray opens, drag the third icon across the bottom (where it says “Row”) to right side of the box (where it says “Column”).



This is what it will look like after you make this change:

Descriptives									
		Statistic							
		Mean	Median	Variance	Std. Deviation	Minimum	Maximum	Range	Interquartile Range
age of first relationship	consider self religious	15.61	16.00	4.948	2.224	10	21	11	3.00
	not religious	15.65	16.00	6.251	2.500	7	21	14	2.00