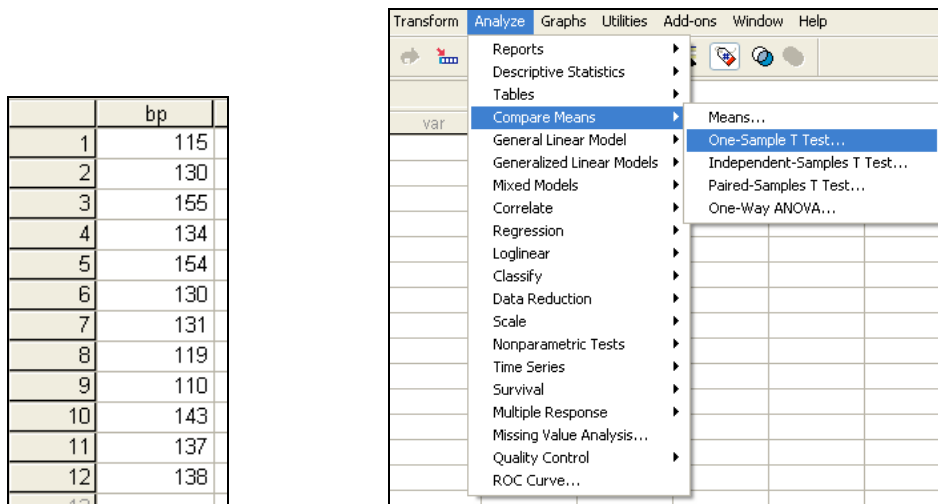


Average systolic blood pressure of a normal male is supposed to be about 129. Measurements of systolic blood pressure on a sample of 12 adult males from a community whose dietary habits are suspected of causing high blood pressure are listed below:

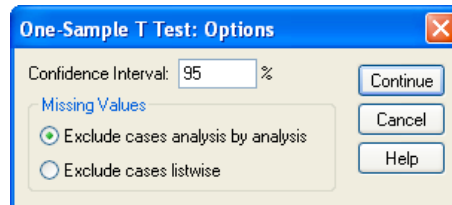
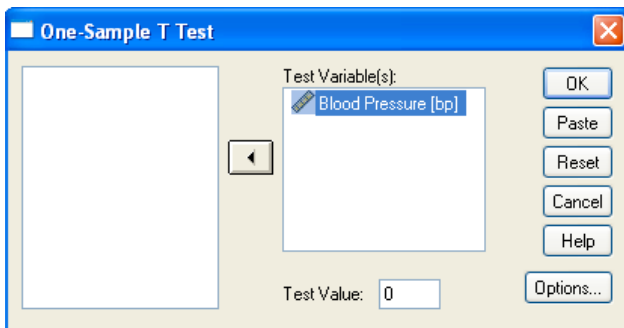
115	134	131	143
130	154	119	137
155	130	110	138

Compute a 95% confidence interval for the mean systolic blood pressure for adult males from this area.

1. Enter the values into a variable (see left figure, below).



2. Select Analyze → Compare Means → One-Sample T Test... (see right figure, above).
3. Select “Blood Pressure” as the test variable and enter “0” as the test value. Click the “Options...” button and enter the appropriate confidence level (95%). Click “Continue” to close the options and then click “OK”. (See the two figures, below.)



4. Your output should look like this.

T-Test

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
Blood Pressure	12	133.00	13.941	4.025

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
Blood Pressure	33.047	11	.000	133.000	124.1420	141.8580

5. You should use the output information in the following manner to answer the question.

“We are 95% confident that the mean systolic blood pressure for adult males from this area is somewhere between 124.1420 and 141.8580 beats-per-minute.”