**Transcript: Conducting One-Sample *t* Tests in SPSS**

In this video we are going to learn how to do a one-sample *t* test in SPSS. First thing we need to do is to import our data, which is the same data set that we used in R Commander. To do this, we'll go to “File”, “Import Data” and select our file type, which in this case is CSV. From there you can double click on the file “Wong.csv” which you can find in your lab materials. Once that’s loaded, we can click on “OK” to go ahead and import the data set.

Once again, we can see a preview of our data here with the same variables that we had in the R Commander data set. You might notice that there's this extra variable called “V1”. That's just the row number. This happens sometimes when you export files as CSVs, but we don't need to worry about that extra variable.

So again, the variables that we're going to be using are “piq” and “viq” or performance and verbal IQ and we're going to test the same hypothesis as we did in the R Commander video. To do that, we're going to navigate to “Analyze”, “Compare Means and Proportions”, and “One-sample TTest…”. This is going to bring up a similar specifications window that we saw in R Commander, so again we need to select the variable that we're going to be using. In this case, you have to click this little arrow to bring it into the “Test Variable(s)” window so you can see here. These are the variables that we're using. These are the ones that are in the data set, but that we're not using. The next thing we need to do is look at this “Test Value”. This “Test Value” is the same as the “population mu” in R Commander. It's the value that we're comparing our test variable to. So again, because we know that the mean of IQ within the general population is 100, we want to change this to 100. We can also go into “Options” and we could change our confidence interval if we wanted. But again, we're going to just leave it at the standard 95%. Then we can click “OK” to go ahead and conduct our analysis.

Again, we're going to go over how to interpret these values in the next video, but you can see here the output for our one-sample *t* test. To conduct the same one-sample *t* test on verbal IQ, we can go back to “Analyze”, “Compare Means and Proportions”, and “One-sample TTest…”. In this case, we want to have our verbal IQ over here in the “Test Variable(s)” section. But first we need to move performance IQ out. So right now, we've selected performance IQ as our test variable. We want to get that back into the unused variable side of things and move verbal IQ into the test variable. Just like R Commander, SPSS is keeping our previous settings of our test value being 100, which is exactly what we want. So in this case we're ready to click “OK”. And again, you can see the output for the results of the one-sample *t* test. So that is how you conduct a one-sample *t* test in SPSS and in our next video we're going to go over how to interpret the output from both R Commander and SPSS.