

SPSS: Histogram (via Frequencies)

This document will explain how to generate a Histogram (via Frequencies) using SPSS as shown below.

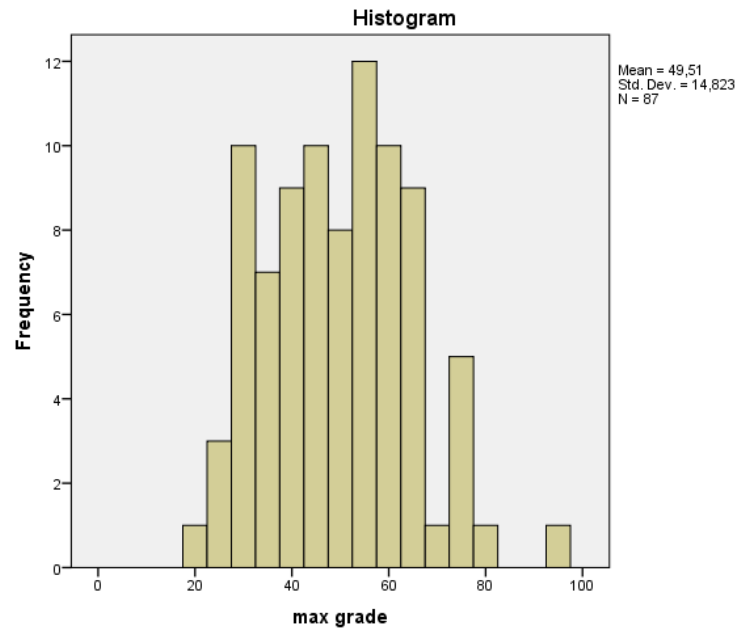


Figure 1. Example Histogram generated with SPSS

The described steps are also shown in the Youtube video at: <https://youtu.be/l4l5FjoaU1o>

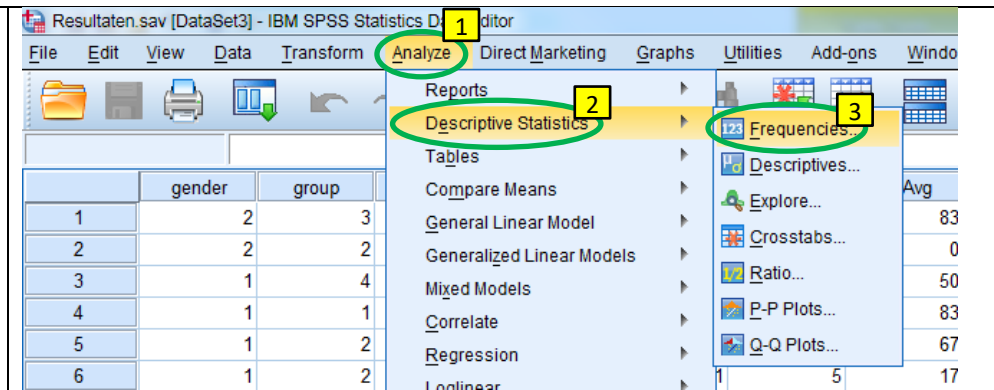
The example file used is *Resultaten.sav* available on the companion website <http://PeterStatistics.com>.

Histogram (simple)

1. Click in the menubar on **Analyze**

2. Click on **Descriptive Statistics**

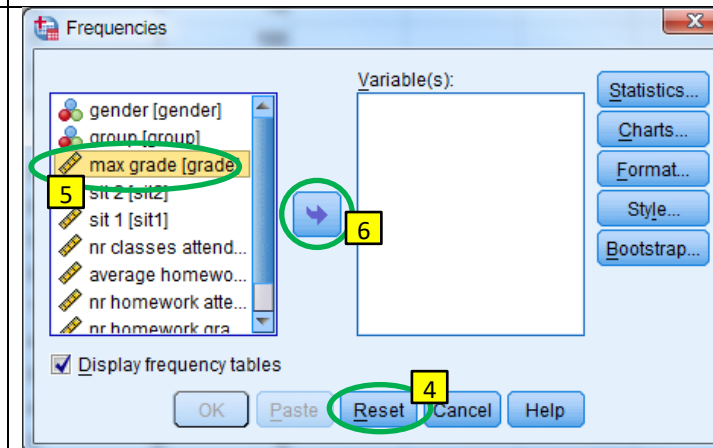
3. Click on **Frequencies...**



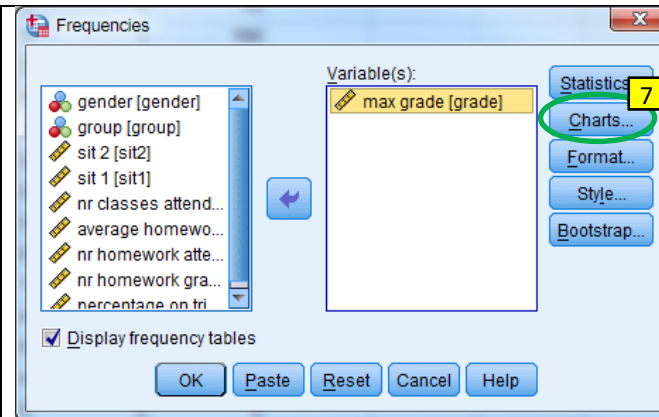
4. Click on **Reset**

5. Click on the scale variable(s) of which you want a histogram

6. Click on **→** to move it to the *Variable(s)*:

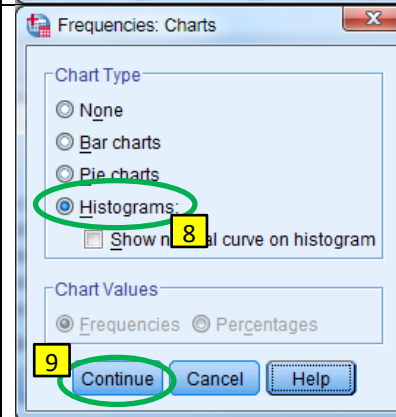


7. Click on **Charts...**



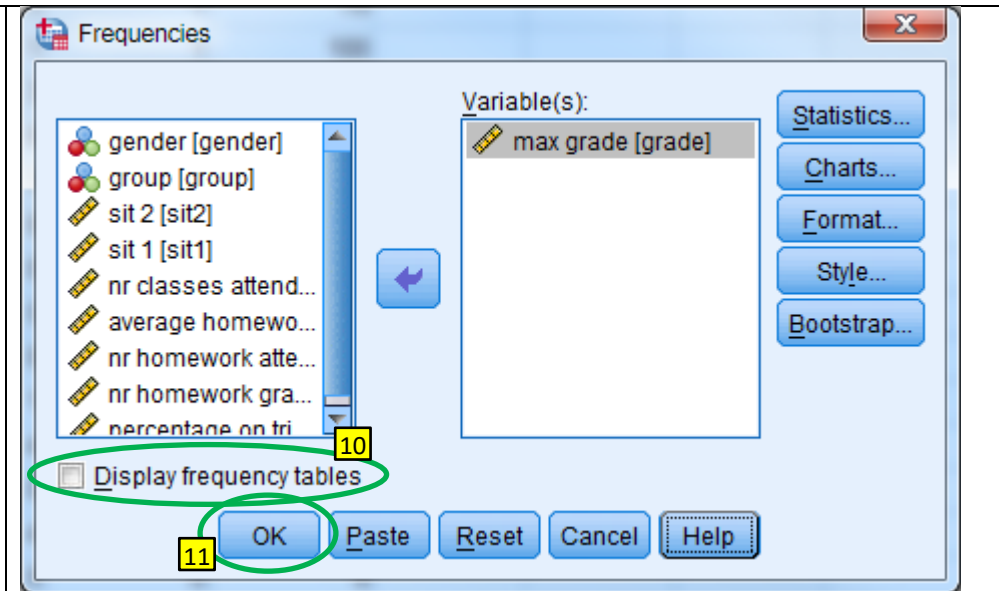
8. Click on **Histograms:**

9. Click on **Continue**





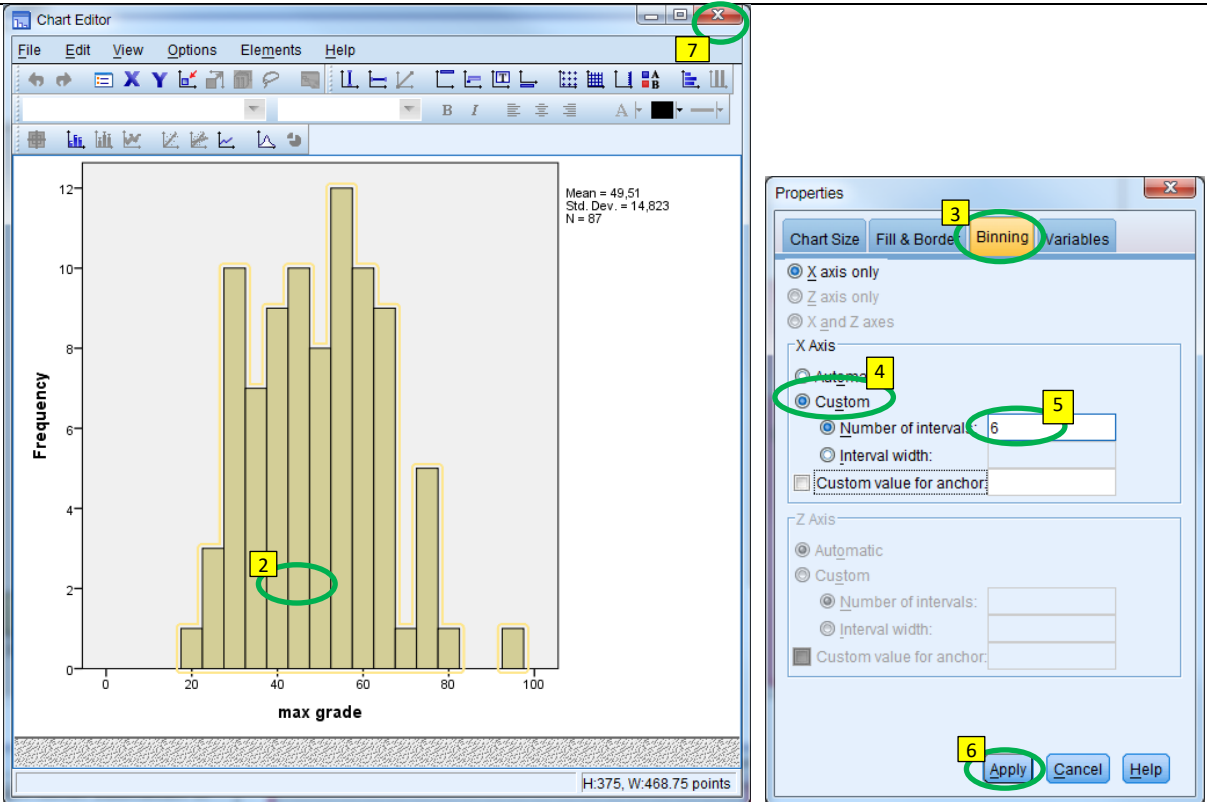
10. Uncheck **Display frequency tables** unless you also want to see the frequency table.

11. Click on






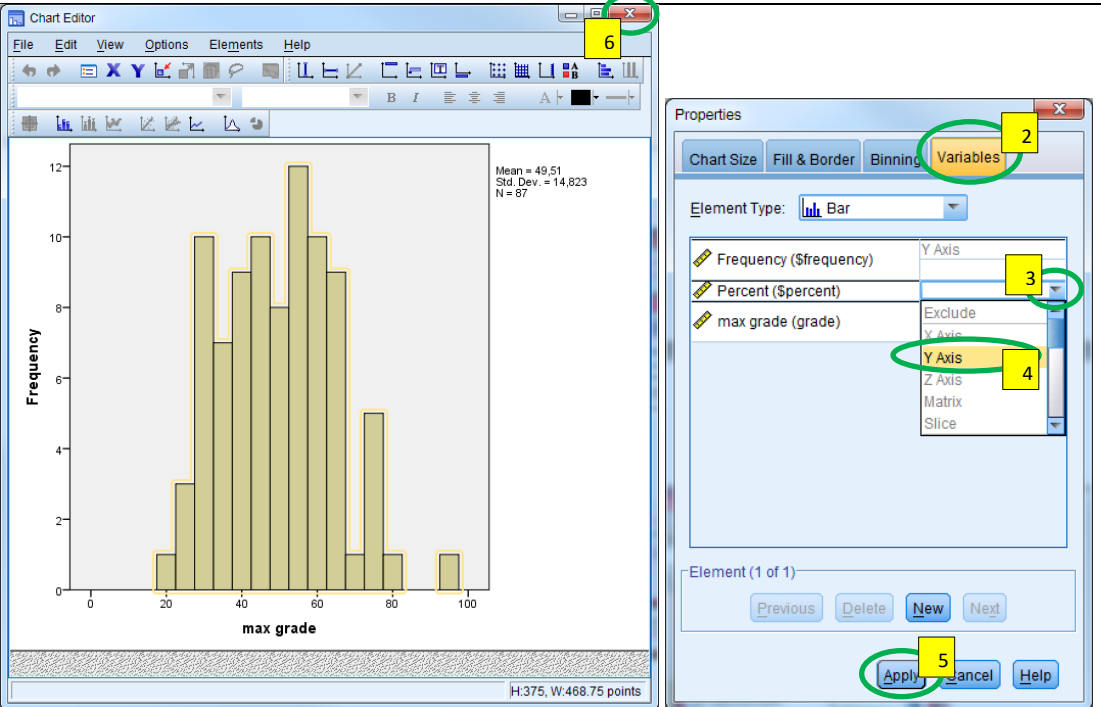
Change number of bins

Follow the steps below to adjust the number of bins.

<ol style="list-style-type: none"> 1. DOUBLE-click in the output on the histogram to open the Chart editor 	<p><= READ</p>
<ol style="list-style-type: none"> 2. Click on one of the bins so all of them will be selected. 3. Click at Properties on the Binning tab <p><i>Note:</i> If you do not see the properties window, you can click in the menubar on <i>Edit</i> and then on <i>Properties</i> (or use the shortcut CTRL+T, or the button )</p> <ol style="list-style-type: none"> 4. Click on <input checked="" type="radio"/> Custom 5. <u>Type</u> the desired number of bins <input checked="" type="radio"/> Number of intervals: 8 6. Click on <input type="button" value="Apply"/> 7. Close the Chart editor  (changes will be shown in the output) 	 <p>The screenshot shows the SPSS Chart Editor window on the left and the Properties dialog box on the right. The Chart Editor displays a histogram of 'max grade' with a mean of 49.51, standard deviation of 14.823, and N = 87. A green circle labeled '2' highlights one of the bars in the histogram. A green circle labeled '7' highlights the close button in the Chart Editor's title bar. The Properties dialog box has the 'Binning' tab selected, indicated by a green circle labeled '3'. In the 'X Axis' section, the 'Custom' radio button is selected (green circle '4'), and the 'Number of intervals' is set to 6 (green circle '5'). At the bottom of the dialog, the 'Apply' button is highlighted with a green circle labeled '6'.</p>

In percentages

You can change the histogram to show percentages on the vertical axis instead of counts by following the steps below.

<p>1. DOUBLE-click in the output on the histogram to open the Chart editor</p>	<p><= READ</p>
<p>2. Click at Properties on the Variables tab</p> <p><i>Note:</i> If you do not see the properties window, you can click in the menubar on <i>Edit</i> and then on <i>Properties</i> (or use the shortcut CTRL+T, or the button )</p> <p>3. Click on the pull down icon  at Percent (\$percent)</p> <p>4. Click on 'Y Axis'</p> <p>5. Click on Apply</p> <p>6. Close the Chart editor  (changes will be shown in the output)</p>	 <p>The screenshot shows the Chart Editor window with a histogram of 'max grade' and the Properties dialog box. The Properties dialog is on the 'Variables' tab. A yellow box labeled '2' highlights the 'Variables' tab. A yellow box labeled '3' highlights the pull-down arrow next to 'Percent (\$percent)'. A yellow box labeled '4' highlights 'Y Axis' in the list. A yellow box labeled '5' highlights the 'Apply' button. A yellow box labeled '6' highlights the close button of the Chart Editor window.</p>