

SPSS: Histogram (using Legacy)

Below are the steps to generate a histogram or split histogram via the Legacy dialogs option in SPSS.

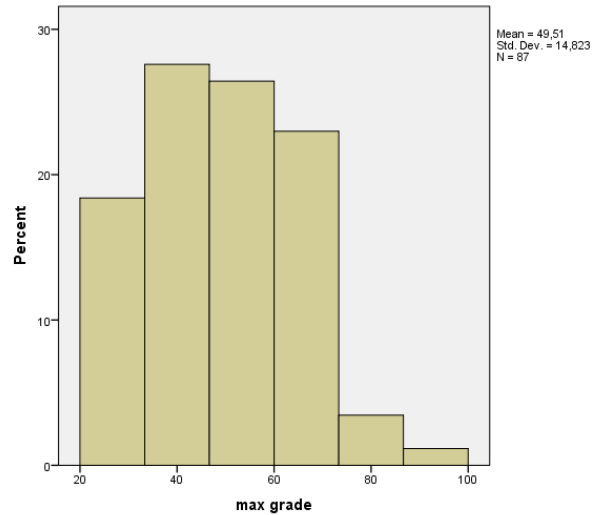


Figure 1. Example histogram generated with SPSS

The described steps are also shown in the Youtube video at: https://youtu.be/XB5saleE_FE

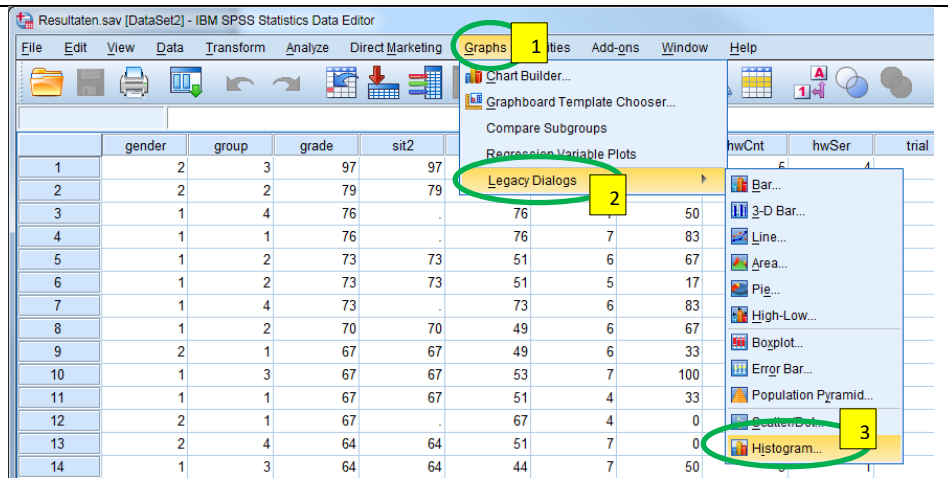
The example file used is *Resultaten.sav* available on the companion website <http://PeterStatistics.com>.

1 Simple Histogram

1. Click on **Graphs**

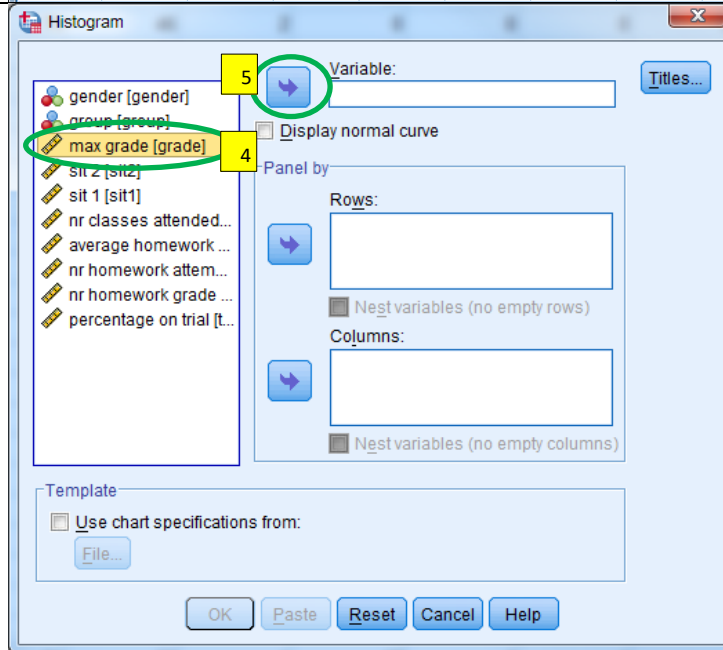
2. Click on **Legacy Dialogs**

3. Click on **Histogram...**



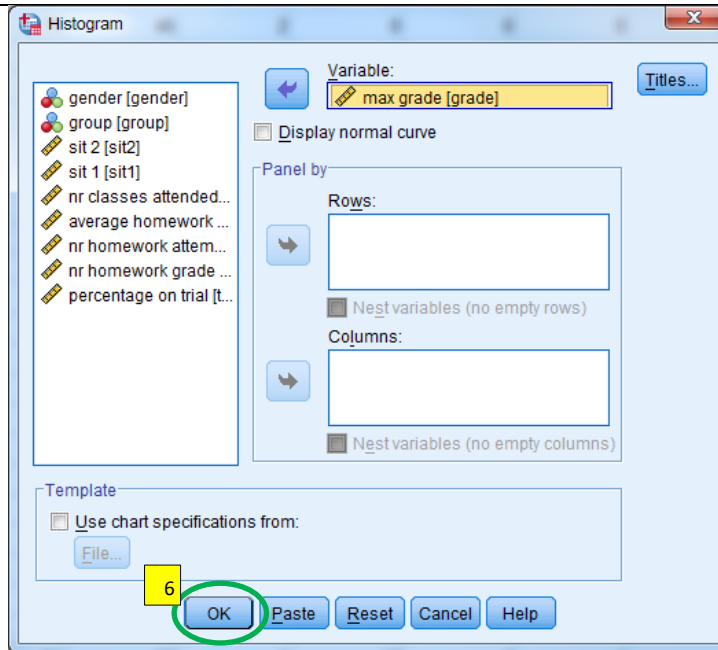
4. Click on the (scale) variable of which you want a histogram.

5. Click on **→** to move it to Variable





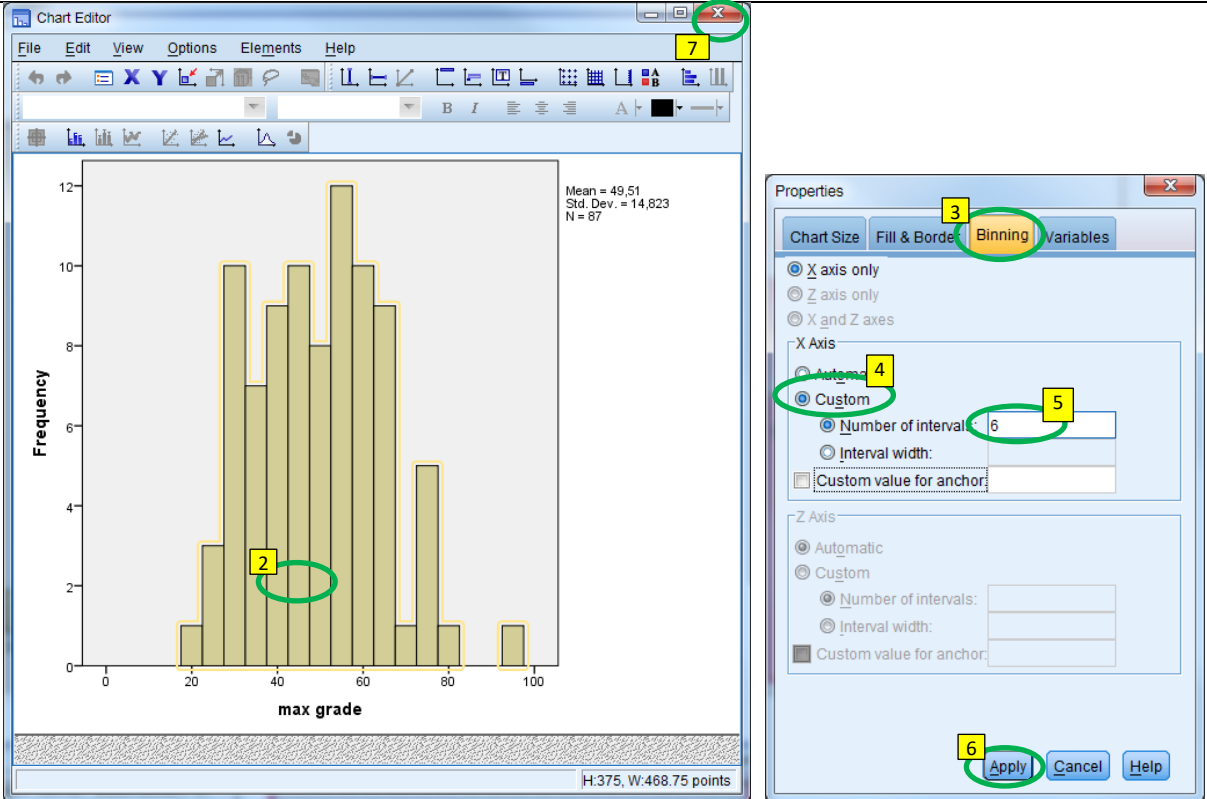
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6. Click on






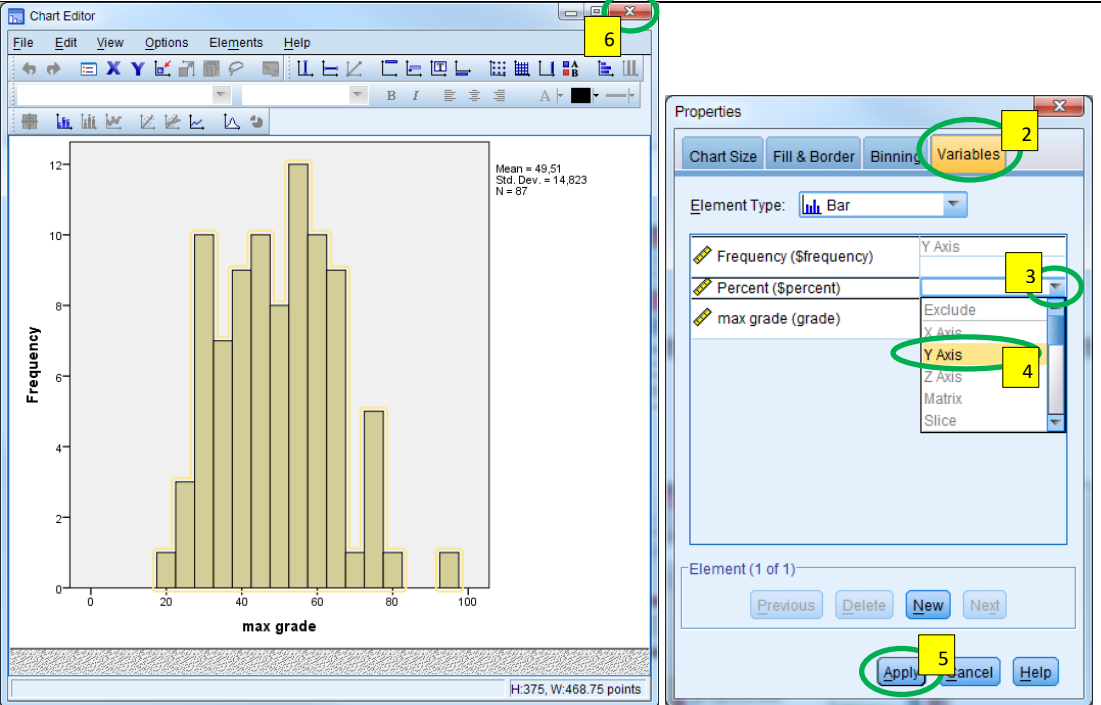
2 Change number of bins

Follow the steps below to adjust the number of bins.

| | |
|--|---|
| <ol style="list-style-type: none"> 1. <u>DOUBLE</u>-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: <input type="text" value="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 with a histogram of 'max grade' data. The histogram has 8 bins. A yellow box with the number '2' highlights one of the bins. The Properties dialog is open, showing the 'Binning' tab. A yellow box with the number '3' highlights the 'Binning' tab. A yellow box with the number '4' highlights the 'Custom' radio button. A yellow box with the number '5' highlights the 'Number of intervals' input field, which contains the value '6'. A yellow box with the number '6' highlights the 'Apply' button. A yellow box with the number '7' highlights the close button (X) in the top right corner of the Chart Editor window.</p> |

3 In percentages

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

| | |
|---|---|
| <p>1. <u>DOUBLE</u>-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 SPSS Chart Editor window with a histogram of 'max grade'. The Y-axis is labeled 'Frequency' and ranges from 0 to 12. The X-axis is labeled 'max grade' and ranges from 0 to 100. The histogram has a mean of 49.51, a standard deviation of 14.823, and a sample size of N = 87. The Properties dialog box is open, showing the 'Variables' tab. The 'Element Type' is set to 'Bar'. The 'Y Axis' is set to 'Percent (\$percent)'. The 'X Axis' is set to 'max grade (grade)'. The 'Apply' button is highlighted.</p> |