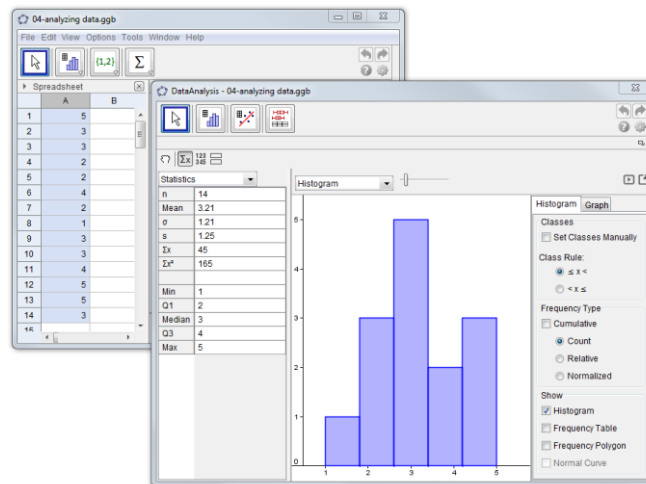



Example 4: Analyzing Data



Task: Create a histogram and evaluate mean, median, min and max of a number of values.



Preparations

- Click on the arrow on the right side of the Graphics View and select  *Spreadsheet & Graphics* from the *Perspectives* sidebar.

Construction Steps

1		Enter some data into the cells of column A of the spreadsheet, e.g. fill A1 to A14 with values like 5, 3, 3, 2, 2, 4, 2, 1, 3, 3, 4, 5, 5, 3.
2		Highlight the appropriate cells and select the tool <i>One Variable Analysis</i> . <u>Hint:</u> In this example: Highlight the cells A1 till A14 and click the tool <i>One Variable Analysis</i> . After clicking <i>Analyze</i> in the <i>Data Source</i> Dialog, the <i>Data Analysis</i> dialog appears.
3		Select the appropriate <i>Classes</i> at the top of the pop-up window. <u>Hint:</u> For the numbers in this example 5 <i>Classes</i> were used, because there are five different values.
4	Σx	Choose the <i>Show Statistics</i> icon from the Stylebar to open the <i>Statistics</i> panel. Find the mean, the median, the maximum and the minimum of the data.
5		Click the arrow button at the top right and select <i>Set Classes Manually</i> in the right <i>Histogram</i> menu. <u>Hint:</u> Press Enter after specifying the <i>Start</i> value 0.5 and the <i>Width</i> 1 (values of this example).

Some Tips

Change some values in column A and see how this influences the histogram and the statistical values like mean, median, maximum and minimum.

Change the diagram type from *Histogram* to *Box Plot* in the list box above the histogram.