

Finding Standardized Values (z-Scores)

This guide demonstrates three methods for calculating standardized values (z-scores) for a continuous variable.

Method 1 (Save Standardized)

- 1. From an open JMP data table, select Analyze > Distribution.
- 2. Select one or more continuous variables from **Select Columns** and click **Y**, **Columns**.
- 3. Click **OK** to generate a histogram and descriptive statistics.
- Click on the red triangle for the variable, and select Save > Standardized. A new column of the standardized values will be saved to the data table.

Big Class.jmp (Help > Sample	e Data Folder)
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•	name	age	sex	height	weight	Std height
1	KATIE	12	F	59	95	-0.836802628
2	LOUISE	12	F	61	123	-0.365364528
3	JANE	12	F	55	74	-1.779678828

The column Std height
contains z-scores for
height.



Method 2 (Instant Formula)

From an open JMP data table, right click on the column that you want to standardize and select New
Formula Column > Distributional > Standardize. A new column of the standardized values will be created
in the data table.

To view the formula, right-click on the column header for this new column and select Formula.

Method 3 (Create Formula with Formula Editor)

- 1. From an open JMP data table, select **Cols > New Column**.
- 2. Under Column Name, assign a name for the column.
- 3. Click Column Properties, and select Formula. This takes you to the JMP Formula Editor.

A standardized value (z-score) is of the form:

Variable – Mean(Variable) Standard Deviation (Variable)

4. Create the formula. This will populate the column in the data table with standardized values for the variable. Below are two ways to create the standardized values in the Formula Editor. All functions in this example can be found under the "Statistical" functions.



Visit Using JMP > Create Formulas in JMP in JMP Help to learn more.