

An OpenOffice Calc spreadsheet window titled 'Untitled 1 - OpenOffice Calc'. The spreadsheet contains the following data:

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000					
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	+sum(b1:b7)								
9	Max									
10	Min									
11	Average									
12										
13										
14										
15										
16										
17										
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27										

The formula `+sum(b1:b7)` is entered in cell B8. The properties panel on the right shows text alignment set to 'Align' and 'Center', and a font size of 10pt. The status bar at the bottom indicates 'Sum=0' and '190 %'.

The screenshot shows a spreadsheet application window titled "Untitled 1 - OpenOffice Calc". The menu bar includes File, Edit, View, Insert, Format, Tools, Data, Window, and Help. The toolbar contains various icons for file operations, cell selection, and data manipulation. The main worksheet area displays a table with data and formulas. The first row is labeled "SUM" and contains the formula "+max(b1:b7)". The data starts from row 1, with columns A through J. Row 1 contains values 3, 100, 10, and 500000. Rows 2 through 7 contain values 4, 20, 20, 400000; 5, 40, 15, 750000; 4, 140, 5, 850000; 5, 40, 15, 700000; 6, 10, 15, 650000; and 2, 20, 15, 450000 respectively. Row 8 is labeled "Total" and contains the sum of column B: 29, 370, 95, and 4300000. Below the table, there are four calculated values: Max (29), Min (2), Average (14.5), and Sum (4300000). The right side of the screen features a "Properties" panel with tabs for Text, Alignment, Cell Appearance, and Number Format, along with various styling options like bold, italic, and font size.

Untitled 1 - OpenOffice Calc

File Edit View Insert Format Tools Data Window Help

Arial

MAX

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000					
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	29	370	95	4300000					
9	Max	6								
10	Min	2								
11	Average									
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27										

Sheet1 / Sheet2 / Sheet3 < | > | INSRT | STD | * | Sum=0 | Sheet 1 / 3 | Default | 190 %

Properties

- Text: Arial, 10pt, Left indent: 0pt, Text orientation: 0 degrees, Cell background: light gray, Cell border: thin black border, Show cell grid lines: checked, Number format: General.
- Alignment: Center, Wrap text: unchecked, Vertically stacked: unchecked.
- Cell Appearance: Cell background: light gray, Cell border: thin black border.
- Show cell grid lines: checked.
- Number Format: General.

The screenshot shows a spreadsheet application window with the title "Untitled 1 - OpenOffice Calc". The menu bar includes File, Edit, View, Insert, Format, Tools, Data, Window, and Help. The toolbar contains various icons for file operations, cell selection, and data manipulation. The main worksheet area displays a table with data and formulas. Row 1 contains labels MAX, B1:B7, and +min(B1:B7). Rows 2 through 7 contain numerical values. Row 8 contains the formula =min(B1:B7) in cell B8, resulting in the value 6. Row 9 contains the formula =max(B1:B7) in cell B9, resulting in the value 29. Row 10 contains the formula =average(B1:B7) in cell B10, resulting in the value 21. The Properties panel on the right shows settings for the selected cell B10, including alignment (Text orientation: 0 degrees), cell appearance (background color: light blue), and borders (outline border). The status bar at the bottom indicates "Sheet1 / Sheet2 / Sheet3" and "Sums=0".

The screenshot shows a spreadsheet application window titled "Untitled 1 - OpenOffice Calc". The menu bar includes File, Edit, View, Insert, Format, Tools, Data, Window, and Help. The toolbar contains various icons for file operations, cell selection, and data manipulation. The main worksheet, "Sheet1", displays the following data:

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000					
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	29	370	95	4300000					
9	Max	6								
10	Min	2								
11	Average	+avg(b1:b7)								
12										
13										
14										
15										
16										
17										
18										
19										
20										
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27										

In cell B11, the formula `+avg(b1:b7)` is entered. The Properties panel on the right is open, showing settings for Text, Alignment, Text orientation, Cell Appearance, Cell background, Cell border, and Number Format.

Untitled 1 - OpenOffice Calc

The screenshot shows a spreadsheet application window with a menu bar (File, Edit, View, Insert, Format, Tools, Data, Window, Help) and a toolbar with various icons. A formula, `=average(b1:b7)`, is being typed into cell B11. The cell B11 is highlighted with a blue border. The spreadsheet contains data from rows 1 to 10, with columns A through J. Row 10 contains summary statistics: Total (29), Max (6), Min (2), and Average (4.142857143). The formula bar at the top also displays `=average(b1:b7)`. The Properties panel on the right is open, showing settings for text alignment, cell appearance, and number format.

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000					
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	29	370	95	4300000					
9	Max	6								
10	Min	2								
11	Average	4.142857143	52.85714286	13.57142857	614285.7143					

Untitled 1 - OpenOffice Calc

This screenshot shows the same spreadsheet after the formula has been calculated. Cell B8 now contains the value `4.142857143`. The formula bar still shows `=sum(b1:b7)`. The rest of the data and formulas remain the same as in the first screenshot.

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000					
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	29	370	95	4300000					
9	Max	6	140	20	850000					
10	Min	2	10	5	400000					
11	Average	4.142857143	52.85714286	13.57142857	614285.7143					

Untitled 1 - OpenOffice Calc

Average = +AVERAGE(B1:B7)

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000					
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8 Total		29	370	95	4300000					
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Average		4.142857143	52.85714286	13.57142857	614285.7143					
12										
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Sheet 1 / 3

Default

Sum=4.142857143

190 %

Untitled 1 - OpenOffice Calc

Average = +(b1-b11)

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000					
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8 Total		29	370	95	4300000					
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Average		4.142857143	52.85714286	13.57142857	614285.7143					
12										
13 Mean Normalization										
14 One row		+ (b1-b11)								
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

Sheet 1 / 3

Default

Sum=0

190 %

Untitled 1 - OpenOffice Calc

The screenshot shows a spreadsheet application window with a menu bar (File, Edit, View, Insert, Format, Tools, Data, Window, Help) and a toolbar with various icons. A status bar at the bottom indicates 'Sheet 1 / 3' and 'Sum=0'. The main area contains a table with data from row 1 to 11. Row 11 is labeled 'Average' and contains the values 4.142857143, 52.85714286, 13.57142857, 614285.7143, and an empty cell. Cell B1 contains the formula $+(b1-b11)/(b9-b10)$. The Properties panel on the right shows settings for text alignment, cell appearance, and number format.

AVERAGE	B	C	D	E	F	G	H	I	J
1	3	100	10	500000					
2	4	20	20	400000					
3	5	40	15	750000					
4	4	140	5	850000					
5	5	40	15	700000					
6	6	10	15	650000					
7	2	20	15	450000					
8 Total	29	370	95	4300000					
9 Max	6	140	20	850000					
10 Min	2	10	5	400000					
11 Average	4.142857143	52.85714286	13.57142857	614285.7143					

Untitled 1 - OpenOffice Calc

This screenshot is identical to the one above, showing the same data table and formula in cell B1. The Properties panel on the right shows settings for text alignment, cell appearance, and number format.

AVERAGE	B	C	D	E	F	G	H	I	J
1	3	100	10	500000					
2	4	20	20	400000					
3	5	40	15	750000					
4	4	140	5	850000					
5	5	40	15	700000					
6	6	10	15	650000					
7	2	20	15	450000					
8 Total	29	370	95	4300000					
9 Max	6	140	20	850000					
10 Min	2	10	5	400000					
11 Average	4.142857143	52.85714286	13.57142857	614285.7143					

① Mean Normalization

$$\underline{x} = \frac{x - \text{mean}(\underline{\text{set}(x)})}{\max(\underline{\text{set}(x)}) - \min(\underline{\text{set}(x)})}$$

$$\underline{n} = \frac{n - \text{mean}(\underline{n})}{\max(\underline{n}) - \min(\underline{n})}$$

① Mean Normalization

$$\underline{x} = \frac{x - \text{mean}(\underline{\text{set}(x)})}{\max(\underline{\text{set}(x)}) - \min(\underline{\text{set}(x)})}$$

$$\underline{n} = \frac{n - \text{mean}(\underline{n})}{\max(\underline{n}) - \min(\underline{n})}$$

$$\underline{\text{one}} + \frac{(b\underline{t} - b\underline{1})}{(b\underline{9} - b\underline{1})}$$

b
 1
 2
 3
 4
 5
 6
 7
 Total
 8 +sum(b₁:b₇)
 9 +max(b₁:b₇)
 10 +min(b₁:b₇)
 11 +average(b₁:b₇)

Standardization

$$\frac{x - \mu}{\sigma}$$

mean
sigma
standard deviation

$$\mu = \frac{1}{n} \sum_{i=1}^n x_i$$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (x_i - \mu)^2}{n}}$$

Standardization

$$\frac{x - \mu}{\sigma}$$

mean
sigma
standard deviation

$$\mu = \frac{1}{n} \sum_{i=1}^n x_i$$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (x_i - \mu)^2}{n}}$$

variance

Untitled 1 - OpenOffice Calc

File Edit View Insert Format Tools Data Window Help

Anal

G2

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000		-1.14285714			
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	29	370	95	4300000					
9	Max	6	140	20	850000					
10	Min	2	10	5	400000					
11	Avg	4.142857143	52.85714286	13.57142857	614285.7143					
12										
13	Mean Normalization									
14	One row	-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

Sheet1 / Sheet2 / Sheets / < Default INSERT STD | | Sums=0 | 190 %

The screenshot shows a spreadsheet in OpenOffice Calc with the following data:

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	+b1-b11				
2		4	20	20	400000					
3		5	40	15	750000					
4		4	140	5	850000					
5		5	40	15	700000					
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	29	370	95	4300000					
9	Max	6	140	20	850000					
10	Min	2	10	5	400000					
11	Avg	4.142857143	52.85714286	13.57142857	614285.7143					
12										
13	Mean Normalization									
14	One row	-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16										
17										
18										
19										
20										
21										
22										
23										
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25										
26										
27										

The Properties panel on the right shows settings for Text, Alignment, Cell Appearance, and Number Format. A blue arrow points from the bottom center towards the 'Cell border' section.

Untitled 1 - OpenOffice Calc

A11: Mean Normalization

One row: -0.28571429 0.362637363 -0.23809524 -0.25396825

Sum=26.2857142857

The screenshot shows a spreadsheet application window titled "Untitled 1 - OpenOffice Calc". The main area displays a table with data from rows 1 to 11. Row 1 contains values 3, 100, 10, 500000, and -1.14285714. Row 2 contains 4, 20, 20, 400000, and 4. Row 3 contains 5, 40, 15, 750000, and 5. Row 4 contains 4, 140, 5, 850000, and 4.285714286. Row 5 contains 5, 40, 15, 700000, and 5. Row 6 contains 6, 10, 15, 650000, and 6. Row 7 contains 2, 20, 15, 450000, and 2. Row 8 is labeled "Total" with values 29, 370, 95, 4300000, and 26.2857142857. Rows 9 through 11 are labeled "Max", "Min", and "Avg" respectively, with their corresponding values. A blue arrow points to the cell containing the value 2 in row 7, column G. The Properties panel on the right is open, showing settings for Text, Alignment, Cell Appearance, and Number Format.

Untitled 1 - OpenOffice Calc

A11: Mean Normalization

One row: -0.28571429 0.362637363 -0.23809524 -0.25396825

Sum=0

This screenshot is identical to the one above, showing the same table and properties. The only difference is that the cell containing the value 2 in row 7, column G is now highlighted with a red border, indicating it is the active cell.

The screenshot shows a spreadsheet application window with the title "Untitled 1 - OpenOffice Calc". The menu bar includes File, Edit, View, Insert, Format, Tools, Data, Window, and Help. The toolbar contains various icons for file operations, cell selection, and data manipulation. The main worksheet area displays a data table with 11 rows and 7 columns. Row 11 contains formulas: G11 = +b4-b11, H11 = +b5-b11, I11 = +b6-b11, and J11 = +b7-b11. The data table includes columns for numerical values and labels like "Total", "Max", "Min", and "Avg". The properties panel on the right is open, showing settings for alignment, orientation, and borders. The status bar at the bottom indicates "Sum=0".

The screenshot shows a Microsoft Windows desktop environment with the OpenOffice Calc application open. The title bar reads "Untitled 1 - OpenOffice Calc". The menu bar includes File, Edit, View, Insert, Format, Tools, Data, Window, and Help. The toolbar contains various icons for file operations, cell selection, and data manipulation. The main spreadsheet area has a grid of cells labeled A through J and 1 through 11. Cell G5 contains the formula "-b5-b11". The data in the table includes:

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714				
2		4	20	20	400000	-0.14285714				
3		5	40	15	750000	0.857142857				
4		4	140	5	850000	-0.14285714				
5		5	40	15	700000	+b5-b11				
6		6	10	15	650000					
7		2	20	15	450000					
8	Total	29	370	95	4300000					
9	Max	6	140	20	850000					
10	Min	2	10	5	400000					
11	Avg	4.142857143	52.85714286	13.57142857	614285.7143					

Cell G5 contains the formula `-b5-b11`. The properties panel on the right is open, showing settings for Text, Alignment, Cell Appearance, and Number Format.

Untitled 1 - OpenOffice Calc

The screenshot shows a spreadsheet application window with a toolbar at the top. The main area contains a table with data from row 1 to 11. Row 11 is highlighted in yellow. The formula bar shows = G7-B7-\$B\$11. The properties panel on the right is open, showing settings for text alignment, cell appearance, and number format.

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714				
2		4	20	20	400000	-0.14285714				
3		5	40	15	750000	0.857142857				
4		4	140	5	850000	-0.14285714				
5		5	40	15	700000	0.857142857				
6		6	10	15	650000	1.857142857				
7		2	20	15	450000	-2.14285714				
8 Total		29	370	95	4300000					
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Avg		4.142857143	52.85714286	13.57142857	614285.7143					
12										
13 Mean Normalization										
14 One row		-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16										
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27										

Untitled 1 - OpenOffice Calc

The screenshot shows the same spreadsheet application window. A warning dialog box is displayed in the center of the screen, asking if the user wants to overwrite existing data in cells H1 and I1. The properties panel on the right is still visible.

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714	1.306122449			
2		4	20	20	400000	-0.14285714				
3		5	40	15	750000	0.857142857				
4		4	140	5	850000	-0.14285714				
5		5	40	15	700000	0.857142857				
6		6	10	15	650000	1.857142857				
7		2	20	15	450000	-2.14285714				
8 Total		29	370	95	4300000					
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Avg		4.142857143	52.85714286	13.57142857	614285.7143					
12										
13 Mean Normalization										
14 One row		-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16										
17										
18										
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21										
22										
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24										
25										
26										
27										

You are pasting data into cells that already contain data.
Do you really want to overwrite the existing data?
 Do not show warning again.

Untitled 1 - OpenOffice Calc

Average formula: =AVERAGE(H1:H7)

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714	1.306122449			
2		4	20	20	400000	-0.14285714	0.020408163			
3		5	40	15	750000	0.857142857	0.734693878			
4		4	140	5	850000	-0.14285714	0.020408163			
5		5	40	15	700000	0.857142857	0.734693878			
6		6	10	15	650000	1.857142857	3.448979592			
7		2	20	15	450000	-2.14285714	4.591836735			
8	Total	29	370	95	4300000					
9	Max	6	140	20	850000					
10	Min	2	10	5	400000					
11	Avg	4.142857143	52.85714286	13.57142857	614285.7143		1.551020408			
12										
13	Mean Normalization									
14	One row	-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
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24										
25										
26										
27										

Sheet 1 / 3 Default STD Sum=1.5510204082 190 %

Thinking MACHINES
https://thinkingmachines.in

Standardization

$$\frac{x - \mu}{\sigma}$$

mean
sigma
standard deviation

$$\mu = \frac{1}{n} \sum_{i=1}^n x_i$$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (x_i - \mu)^2}{n}}$$

variance

The screenshot shows a Microsoft Windows desktop environment with the OpenOffice Calc application open. The title bar reads "Untitled 1 - OpenOffice Calc". The menu bar includes File, Edit, View, Insert, Format, Tools, Data, Window, and Help. The toolbar contains various icons for file operations, cell selection, and data manipulation. The main spreadsheet area has a table with 11 rows and 7 columns. Row 1 contains values 3, 100, 10, 500000, -1.14285714, 1.306122449, and an empty cell. Rows 2 through 6 contain values 4, 20, 20, 400000, -0.14285714, 0.020408163, and an empty cell respectively. Rows 7 through 10 contain values 5, 40, 15, 750000, 0.857142857, 0.734693878, and an empty cell respectively. Row 11 contains values 4, 140, 5, 850000, -0.14285714, 0.020408163, and an empty cell. Row 12 is a summary row with labels Total, 29, 370, 95, 4300000, 1.551020408, and an empty cell. Row 13 is a header row for mean normalization with labels Mean Normalization, Std Deviation, and 1.245399698. Row 14 contains the formula =MEAN(A2:A11) for the mean and =STDEV(A2:A11) for the standard deviation. The properties panel on the right is visible, showing settings for Text, Alignment, Cell Appearance, and Number Format.

Untitled 1 - OpenOffice Calc

The screenshot shows a spreadsheet application window with a menu bar (File, Edit, View, Insert, Format, Tools, Data, Window, Help) and a toolbar with various icons. A table is displayed in the main area, and a Properties panel is open on the right side.

Data Table:

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714	1.306122449			
2		4	20	20	400000	-0.14285714	0.020408163			
3		5	40	15	750000	0.857142857	0.734693878			
4		4	140	5	850000	-0.14285714	0.020408163			
5		5	40	15	700000	0.857142857	0.734693878			
6		6	10	15	650000	1.857142857	3.448979592			
7		2	20	15	450000	-2.14285714	4.591836735			
8 Total		29	370	95	4300000					
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Avg		4.142857143	52.85714286	13.57142857	614285.7143		1.551020408			
12										
13 Mean Normalization							Std Deviation 1.245399698			
14 One row		-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16 Standardization										
17 One row		-0.91766294	37.85359609							
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

Properties Panel:

- Text: Arial, 10pt, Left indent: 0 pt, Text orientation: 0 degrees, Cell background: light gray, Cell border: thin black border, Show cell grid lines: checked.
- Alignment: Center, Merge cells: checked.
- Cell Appearance: Cell background: light gray, Cell border: thin black border.
- Number Format: Standard.

Untitled 1 - OpenOffice Calc

The screenshot shows a spreadsheet application window with a menu bar (File, Edit, View, Insert, Format, Tools, Data, Window, Help) and a toolbar with various icons. A table is displayed in the main area, and a Properties panel is open on the right side.

Data Table:

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714	1.306122449			
2		4	20	20	400000	-0.14285714	0.020408163			
3		5	40	15	750000	0.857142857	0.734693878			
4		4	140	5	850000	-0.14285714	0.020408163			
5		5	40	15	700000	0.857142857	0.734693878			
6		6	10	15	650000	1.857142857	3.448979592			
7		2	20	15	450000	-2.14285714	4.591836735			
8 Total		29	370	95	4300000		1.551020408			
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Avg		4.142857143	52.85714286	13.57142857	614285.7143		1.551020408			
12										
13 Mean Normalization							Std Deviation 1.245399698			
14 One row		-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16 Standardization										
17 One row		-0.91766294								
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

Properties Panel:

- Text: Arial, 10pt, Left indent: 0 pt, Text orientation: 0 degrees, Cell background: light gray, Cell border: thin black border, Show cell grid lines: checked.
- Alignment: Center, Merge cells: checked.
- Cell Appearance: Cell background: light gray, Cell border: thin black border.
- Number Format: Standard.

The screenshot shows a spreadsheet application window with the following details:

- File Menu:** Untitled 1 - OpenOffice Calc, File, Edit, View, Insert, Format, Tools, Data, Window, Help.
- Toolbar:** Standard icons for file operations, cell selection, and data processing.
- Formula Bar:** Displays the formula $=i1*i1$.
- Properties Panel:** Shows settings for text, alignment, orientation, cell appearance, and borders.
- Data Table:**

	A	B	C	D	E	F	G	H	I
1		3	100	10	500000		-1.14285714	1.306122449	-32.8571429 +i1*i1
2		4	20	20	400000		-0.14285714	0.020408163	-12.8571429
3		5	40	15	750000		0.857142857	0.734693878	87.14285714
4		4	140	5	850000		-0.14285714	0.020408163	-12.8571429
5		5	40	15	700000		0.857142857	0.734693878	-42.8571429
6		6	10	15	650000		1.857142857	3.448979592	-32.8571429
7		2	20	15	450000		-2.14285714	4.591836735	317.1428571
8	Total	29	370	95	4300000				
9	Max	6	140	20	850000				
10	Min	2	10	5	400000				
11	Avg	4.142857143	52.85714286	13.57142857	614285.7143		1.551020408		
12									
13	Mean Normalization						Std Deviation	1.245399698	
14	One row	-0.28571429	0.362637363	-0.23809524	-0.25396825				
15									
16	Standardization								
17	One row	-0.91766294							
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
- Status Bar:** Shows 'Sheet1 / Sheet2 / Sheet3 / Sheet4'.

Untitled 1 - OpenOffice Calc

SORT

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714	1.306122449	-32.8571429	1079.591837	
2		4	20	20	400000	-0.14285714	0.020408163	-12.8571429	165.3061224	
3		5	40	15	750000	0.857142857	0.734693878	87.14285714	7593.877551	
4		4	140	5	850000	-0.14285714	0.020408163	-12.8571429	165.3061224	
5		5	40	15	700000	0.857142857	0.734693878	-42.8571429	1836.734694	
6		6	10	15	650000	1.857142857	3.448979592	-32.8571429	1079.591837	
7		2	20	15	450000	-2.14285714	4.591836735	317.1428571	100579.5918	
8 Total		29	370	95	4300000					
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Avg		4.142857143	52.85714286	13.57142857	614285.7143		1.551020408	16071.42857		
12										
13 Mean Normalization							Std Deviation	1.245399698		126.7731382
14 One row		-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16 Standardization										
17 One row		-0.91766294	0.371867872	+ (c1 - c11) / J13						
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

Sheet 1 / 3

Default

INSRT STD

Sum=0

190 %

Properties

Untitled 1 - OpenOffice Calc

SORT

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-1.14285714	1.306122449	-32.8571429	1079.591837	
2		4	20	20	400000	-0.14285714	0.020408163	-12.8571429	165.3061224	
3		5	40	15	750000	0.857142857	0.734693878	87.14285714	7593.877551	
4		4	140	5	850000	-0.14285714	0.020408163	-12.8571429	165.3061224	
5		5	40	15	700000	0.857142857	0.734693878	-42.8571429	1836.734694	
6		6	10	15	650000	1.857142857	3.448979592	-32.8571429	1079.591837	
7		2	20	15	450000	-2.14285714	4.591836735	317.1428571	100579.5918	
8 Total		29	370	95	4300000		1.551020408	16071.42857		
9 Max		6	140	20	850000					
10 Min		2	10	5	400000					
11 Avg		4.142857143	52.85714286	13.57142857	614285.7143		1.551020408	16071.42857		
12							Std Deviation	1.245399698		126.7731382
13 Mean Normalization										
14 One row		-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16 Standardization										
17 One row		-0.91766294	0.371867872	+ (d1 - d11) / J13						
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

Sheet 1 / 3

Default

INSRT STD

Sum=0

190 %

Properties

Untitled 1 - OpenOffice Calc

Properties

Text

Font: Arial, Size: 10

Alignment: Center

Text orientation: 0 degrees

Cell Appearance

Cell border: Solid, Width: 1pt

Number Format

Sum=155182.57845717

Sheet 1 / 3 | Sheet1 / Sheet2 / Sheet3 | < > Default | STD | Sum=155182.57845717 | 190 %

Untitled 1 - OpenOffice Calc

Properties

Text

Font: Arial, Size: 10

Alignment: Center

Text orientation: 0 degrees

Cell Appearance

Cell border: Solid, Width: 1pt

Number Format

Sum=0

Sheet 1 / 3 | Sheet1 / Sheet2 / Sheet3 | < > Default | INSRT | STD | Sum=0 | 190 %

Untitled 1 - OpenOffice Calc

The screenshot shows a spreadsheet with data in rows 1 through 11. Rows 1 through 10 contain numerical values, while row 11 contains formulas. The columns are labeled B through K. The formulas in row 11 are:

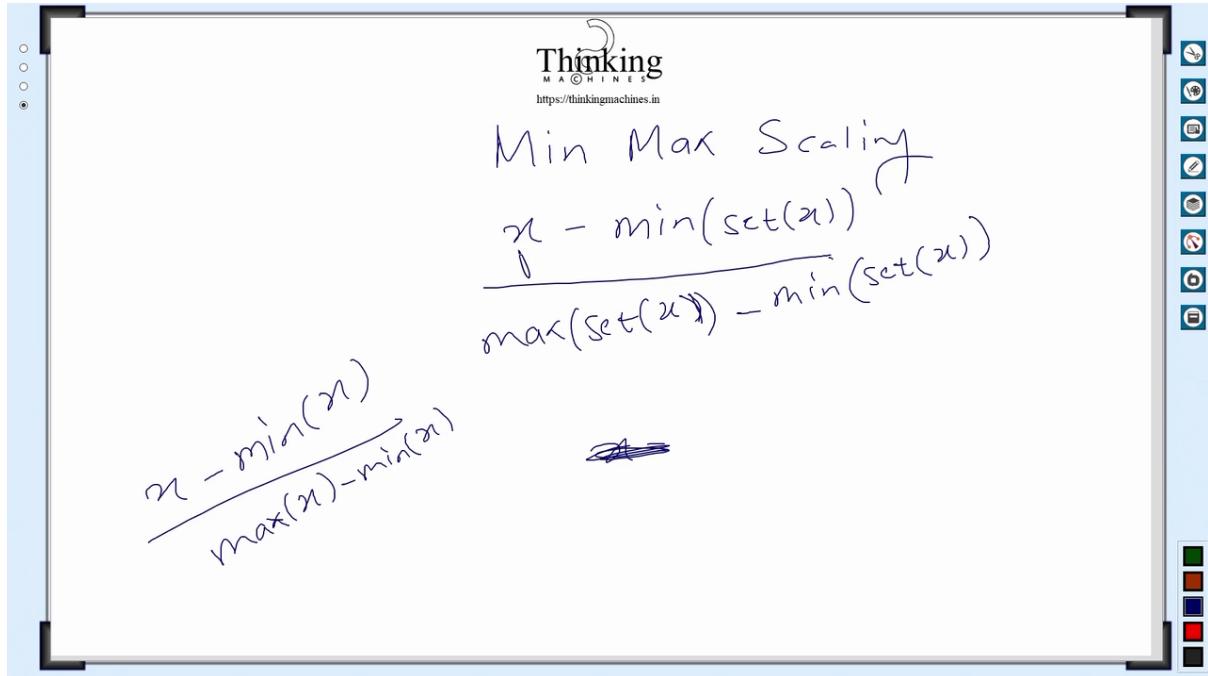
- B11: $4.142857143 \cdot 52.85714286 \cdot 13.57142857 \cdot 614285.7143$
- C11: 370
- D11: 95
- E11: 4300000
- F11: 1.551020408
- G11: 16071.42857

Row 12 contains the text "Standardization". Row 13 contains the formula $=stddevp(b1:b7)$. Row 14 contains the formula $-0.28571429 \cdot 0.362637363 \cdot -0.23809524 \cdot -0.25396825$.

Properties panel on the right shows settings for alignment, text orientation, cell appearance, and number format.

Untitled 1 - OpenOffice Calc

This screenshot is identical to the one above, showing the same data, formulas, and properties panel for the "Standardization" section.



Untitled 1 - OpenOffice Calc

File Edit View Insert Format Tools Data Window Help

Anal 10 B U

STDEV

	A	B	C	D	E	F	G	H	I	J
1		3	100	10	500000	-0.14285714	1.306122449	-32.8571429	1079.591837	
2			4	20	20	400000	-0.14285714	0.020408163	-12.8571429	165.3061224
3				5	40	15	750000	0.857142857	0.734693878	87.14285714
4					4	140	5	850000	-0.14285714	0.020408163
5						5	15	700000	0.857142857	0.734693878
6							6	10	-42.8571429	1836.734694
7								20	15	1
8	Total	29	370	95	4300000	1.857142857	3.448979592	-32.8571429	1079.591837	1
9	Max	6	140	20	850000	-2.14285714	4.591836735	317.1428571	100579.5918	1
10	Min	2	10	5	400000					
11	Avg	4.142857143	52.85714286	13.57142857	614285.7143		1.551020408		16071.42857	
12										
13	Mean Normalization						Std Deviation 1.245399698		126.7731382	
14	One row	-0.28571429	0.362637363	-0.23809524	-0.25396825					
15										
16	Standardization									
17	One row	-0.91766294	0.371867872	-0.81110711	-0.73645969					
18										
19	1.245399698									
20										
21	Min Max Scaling									
22	+ (b1-b10)/(b									
23										
24										
25										
26										
27										

Sheet1 / Sheet2 / Sheet3 /

Sum=0

190 %

The screenshot shows the OpenOffice Calc interface with several data tables and a properties panel.

Data Tables:

- Table 1:** A 10x10 grid of numerical values. Row 8 contains the labels "Total", "Max", and "Min". Row 11 contains the labels "Avg", "Mean Normalization", "Standardization", and "Min Max Scaling".
- Table 2:** A 1x4 grid below the first table, containing the values 0.25, 0.692307692, 0.333333333, and 0.25.

Properties Panel:

- Text:** Properties for the selected cell "Anal".
- Alignment:** Left indent: 0 pt, Wrap text checked.
- Text orientation:** 0 degrees, Vertically stacked unchecked.
- Cell Appearance:** Cell background: light blue.
- Cell border:** Black border.
- Show cell grid lines:** Checked.
- Number Format:** Standard format.

Robust Scaling

Max Abs Scaling

Power Transformer

{

Robust Scaling

Max Abs Scaling

Power Transformer

{
Unit vector