

# EXAMPLE - Rounding Functions

The following example demonstrates how the rounding functions work together. These functions include the following:

- FLOOR - largest integer that is not greater than the input value. See *FLOOR Function*.
- CEILING - smallest integer that is not less than the input value. See *CEILING Function*.
- ROUND - nearest integer to the input value. See *ROUND Function*.
- MOD - remainder integer when input1 is divided by input2. See *Numeric Operators*.

## Source:

rowNum	X
1	-2.5
2	-1.2
3	0
4	1
5	1.5
6	2.5
7	3.9
8	4
9	4.1
10	11

## Transformation:

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	FLOOR(X)
<b>Parameter: New column name</b>	'floorX'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	CEILING(X)
<b>Parameter: New column name</b>	'ceilingX'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	ROUND (X)
<b>Parameter: New column name</b>	'roundX'

<b>Transformation Name</b>	New formula
<b>Parameter: Formula type</b>	Single row formula
<b>Parameter: Formula</b>	(X % 2)
<b>Parameter: New column name</b>	'modX'

**Results:**

rowNum	X	modX	roundX	ceilingX	floorX
1	-2.5		-2	-2	-3
2	-1.2		-1	-1	-2
3	0	0	0	0	0
4	1	1	1	1	1
5	1.5		2	2	1
6	2.5		3	3	2
7	3.9		4	4	3
8	4	0	4	4	4
9	4.1		4	5	4
10	11	1	11	11	11