round

Syntax	set	aFloat = aFloat.round(base)			
Semantics	round base is • De • In • Le Se	 round() rounds float to a given base. E.g. if you want to remove the fraction then base is 1.0. The common method is implemented: Decide which is the last digit to keep. Increase it by 1, if the next digit is 5 or more (this is called rounding up). Leave it the same, if the next digit is 4 or less (this is called rounding down). See also Rounding on Wikipedia. 			
Substitutables	aFlo at	Can be any variable or object attribute having the type Float .			
	base	Is of type Float and encodes the base to be rounded to. For examples, see the table below.			
Examples	<pre>set aFloat1 = aFloat1.round(2); set aFloat2 = aFloat3.round(aFloat4);</pre>				

Table: Base Examples for the round() Operation

Rounding Result	aFloat	Base
3	3.1	1.0
3	3	1.0
3	3.499	1.0
4	3.999	1.0
4	3.5	1.0
4	3.501	1.0
-3	-3.1	1.0
-3	-3	1.0
-3	-3.499	1.0
-4	-3.999	1.0
-4	-3.5	1.0
-4	-3.501	1.0
999999999999999999999999999999.499	9999999999999999999999999999999999	0.001
3.499	3.499	0.001
3.5	3.499	0.01
3.5	3.499	0.1
3.5	3.499	0.5
3	3.499	1.0
0	3.499	10.0
-3.499	-3.499	0.001
-3.5	-3.499	0.01
-3.5	-3.499	0.1

Related Pages:

• Rounding on Wikipedia

-3.5	-3.499	0.5
-3	-3.499	1.0
0	-3.499	10.0