

Symbols and functions that can be used in Stats Calculator

1) Arithmetic operators

+, -, *, /, ^

2) Mathematical functions

abs, sign, sqrt, ceiling, floor, trunc, cummax, cummin, cumprod, cumsum, log, log10, log2, log1p, acos, acosh, asin, asinh, atan, atanh, exp, expm1, cos, cosh, cospi, sin, sinh, sinpi, tan, tanh, tanpi, gamma, lgamma, digamma, trigamma, round, signif

Note:

Radicals	
sqrt(x)	\sqrt{x}
sqrt(x, y)	$\sqrt[y]{x}$

3) Summary functions

max, min, range, prod, sum, any, all

4) Statistical functions

c(1,2,3) # define multiple values for a variable

Basic stats functions

- mean(x), weighted.mean(x), median(x), min(x), max(x), var(x), sd(x)

Sampling

- sample() # Random samples & permutations

Distributions

- qf(.95, df1=5, df2=2) # F distribution
- qt(.975), df=2 # Student t distribution
- qchisq(.95, df=7) # Chi-Squared distribution

Define complex operations

- e.g. sd(c(1,10,20,40))

More details about these functions can be found at <http://cran.r-project.org/doc/manuals/r-release/R-intro.html#Function-and-variable-index>