**SEM Calculation in Excel**

SEM= STANDARD DEVIATION (of POPULATION) / SQUARE ROOT OF THE POPULATION SIZE

or

SEM= STDEV.P(*range of values*)/SQRT(*number*) (in Excel > 2007)

or

SEM= STDEV(*range of values*)/SQRT(*number*) (in Excel < 2007)

where:

* The *range of values* is the data used to determine the standard deviation.

-and-
* The *number* is the size of all the possible random samples.

OR

(If the population is too large to count the number of samples in it)

SEM= STDEV.P(*range of values*)/SQRT(COUNT(*range of values*)) (in Excel > 2007)

or

SEM= STDEV(*range of values*)/SQRT(COUNT(*range of values*)) (in Excel < 2007)