Geometric Mean.

If $x_1, x_2, x_3, \dots, x_n$ are n values of a variate x, none of them being zero, then geometric mean (G.M.) is given by G.M. = $(x_1.x_2.x_3.\dots, x_n)^{1/n} \Rightarrow \log(G.M.) = \frac{1}{n}(\log x_1 + \log x_2 + \dots + \log x_n)$. In case of frequency distribution, G.M. of n values x_1, x_2, \dots, x_n of a variate x occurring with frequency f_1, f_2, \dots, f_n is given by G.M. = $(x_1^{f_1}.x_2^{f_2}.\dots, x_n^{f_n})^{1/N}$, where $N = f_1 + f_2 + \dots + f_n$.