SUMMASYMBOLIN **Σ** OMINAISUUKSIA

1) $\sum_{i=1}^{n} X_i = X_1 + X_2 + \ldots + X_n$

2) $\sum_{i=1}^{n} (X_i + Y_i) = \sum_{i=1}^{n} X_i + \sum_{i=1}^{n} Y_i$

3) $\sum_{i=1}^{n} X^i = X^1 + X^2 + \ldots + X^n$

4) $\sum_{i=1}^{n} \ln(X_i) = \ln(X_1) + \ln(X_2) + \ldots + \ln(X_n)$

5) $\sum_{i=1}^{n} aX_i = a\sum_{i=1}^{n} X_i$

6) $\sum_{i=1}^{n} a = na$

7) $\sum_{i=1}^{n} iX_i = 1X_1 + 2X_2 + \ldots + nX_n$

8) $\sum_{i=1}^{n} X_i Y_i \neq \sum_{i=1}^{n} X_i \sum_{i=1}^{n} Y_i$

9) $\sum_{i=1}^{n} X_i^2 \neq \left(\sum_{i=1}^{n} X_i \right)^2$

10) $\sum_{i=1}^{n} X_i = \sum_{j=1}^{n} X_j \neq \sum_{j=1}^{n} X_i = nX_i$

11) $\sum_{i=1}^{n} \sum_{j=1}^{m} X_{ij} = X_{11} + X_{12} + \ldots + X_{1m} + X_{21} + \ldots + X_{2m} + \ldots X_{nm}$