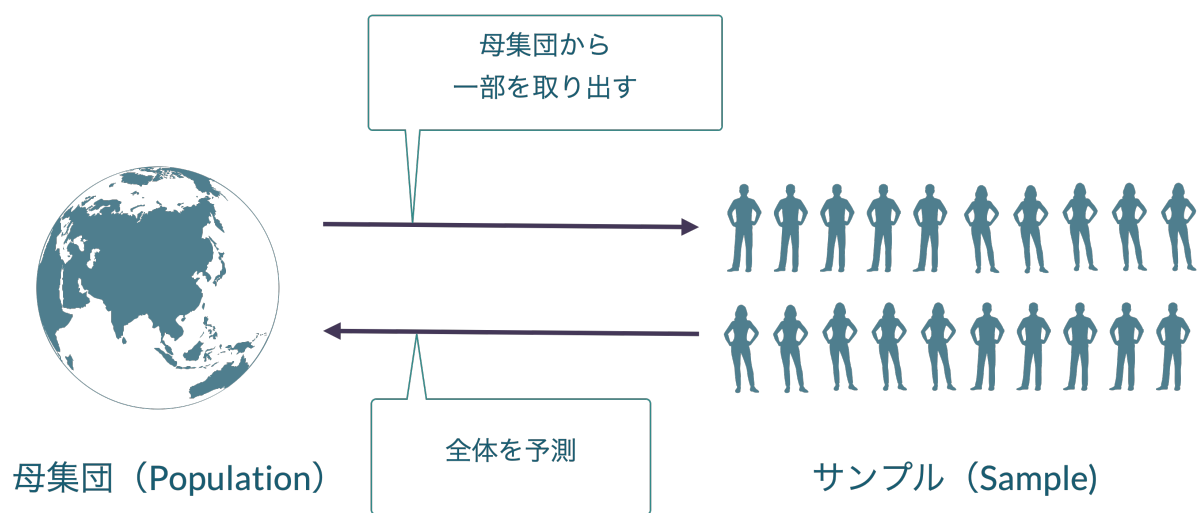




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#### **i** Note

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•  $\sum_{i=1}^n (X_i - \bar{X})^2$

$$\bar{X} = (X_1 + X_2 + \dots + X_n)/n = \frac{1}{n} \sum_{i=1}^n X_i$$

•  $\sum_{i=1}^n (X_i - \bar{X})^2$

$$\begin{aligned} s_X^2 &= \frac{1}{n-1} \{ (X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + (X_3 - \bar{X})^2 + \dots + (X_n - \bar{X})^2 \} \\ &= \frac{1}{n-1} \sum_{i=1}^n (X_i - \bar{X})^2 \end{aligned}$$

$n - 1$