Poblacion

muestra

x_1
x_2
$\vdots$
x_n

Promedio

$\mu_{\bar{x}} = \mu$

$\sigma_{\bar{x}}^2 = \dfrac{\sigma^2}{n}$

$\sigma_{\bar{x}} = \dfrac{\sigma}{\sqrt{n}}$

$Z = \dfrac{\bar{x} - \mu_{\bar{x}}}{\sigma_{\bar{x}}}$

total

$\mu_{yn} = n \cdot \mu$

$V_{yn} = n \cdot \sigma^2$

$\sigma_{yn} = \sqrt{n} \cdot \sigma$

$Z = \dfrac{yn - \mu_{yn}}{\sigma_{yn}}$

Poblacionales

Muestrales

$\mu = E(x) \rightarrow$ Media poblacional

σ

$\sigma^2 = V(x)$

$\mu_{\bar{x}} = E(\bar{x}) \rightarrow$ Medias muestrales

$\mu_{yn} = E(yn) \rightarrow$ Media total muestral

$\sigma_{\bar{x}}^2 = V(\bar{x}) \rightarrow$ Varianza muestral

$\sigma_{yn}^2 = V(yn)$

$\sigma_{\bar{x}}$

σ_{yn} $\rightarrow$ Desviación muestral