Parámetro	**media**	**varianza**	**estadístico**	**Intervalo de confianza**
µ con σ conocida				$\bar{x} \pm Z_{\alpha/2}\frac{\sigma}{\sqrt{n}}$
µ con σ desconocida				$\bar{x} \pm t_{\frac{\alpha}{2},n-1}\frac{\sigma}{\sqrt{n}}$
Proporción	np	npq		$\hat{p} \pm Z_{\alpha/2}\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$
Varianza			$\chi^2{}_{(n-1)} \sim \frac{(n-1)S^2}{\sigma^2}$	$\frac{(\mathrm{n}-1)s^2}{x^2_{\frac{\alpha}{2},n-1}} < \sigma^2 < \frac{(\mathrm{n}-1)s^2}{x^2_{1-\frac{\alpha}{2},n-1}}$
$\mu_1-\mu_2$ con $\sigma_1^2\ y\ \sigma_2^2$ conocidas	$\mu_1-\mu_2$	$\left(\frac{\sigma_1^2}{n_1}\right)+\left(\frac{\sigma_2^2}{n_2}\right)$	$Z=\frac{\bar{X}_1-\bar{X}_2-(\mu_1-\mu_2)}{\sqrt{\left(\frac{\sigma_1^2}{n_1}\right)+\left(\frac{\sigma_2^2}{n_2}\right)}}$	$(\bar{X}_1-\bar{X}_2) \pm Z_{\frac{\alpha}{2}}\sqrt{\left(\frac{\sigma_1^2}{n_1}\right)+\left(\frac{\sigma_2^2}{n_2}\right)}$
$\mu_1-\mu_2$ con $\sigma_1^2\ y\ \sigma_2^2$ Desconocidas pero iguales	$\mu_1-\mu_2$	$s^2{}_p=\left[\frac{(n_1-1)\,S_1{}^2+(n_2-1)\,S_2{}^2}{n_1+n_1-2}\right]$	$t_{(n_1+n_2-2)}=\frac{\bar{X}_1-\bar{X}_2-(\mu_1-\mu_2)}{\sqrt{s^2{}_p}}$	$(\bar{X}_1-\bar{X}_2) \pm t_{\frac{\alpha}{2},v}S_p\sqrt{\left(\frac{1}{n_1}\right)+\left(\frac{1}{n_2}\right)}$
$\mu_1-\mu_2$ con $\sigma_1^2\ y\ \sigma_2^2$ Desconocidas y diferentes	$\mu_1-\mu_2$	$\left(\frac{s_1^2}{n_1}\right)+\left(\frac{s_2^2}{n_2}\right)$	$Z=\frac{\bar{X}_1-\bar{X}_2-(\mu_1-\mu_2)}{\sqrt{\left(\frac{s_1^2}{n_1}\right)+\left(\frac{s_2^2}{n_2}\right)}}$	$(\bar{X}_1-\bar{X}_2) \pm t_{\frac{\alpha}{2},v}\sqrt{\left(\frac{s_1^2}{n_1}\right)+\left(\frac{s_2^2}{n_2}\right)}$ $v=\frac{\left(\left(\frac{s_1^2}{n_1}\right)+\left(\frac{s_2^2}{n_2}\right)\right)^2}{\frac{\left(\frac{s_1^2}{n_1}\right)^2}{n_1-1}+\frac{\left(\frac{s_2^2}{n_1}\right)^2}{n_2-1}}$
Diferencias pareadas μ_d	$\bar{d}$		$t_{(n-1)}=\frac{\bar{d}-\mu_d}{sd/\sqrt{n}}$	$\bar{d} \pm t_{\frac{\alpha}{2},n-1}\frac{s_d}{\sqrt{n}}$
Diferencia de proporciones	$\widehat{p_x}-\widehat{p_y}$	$\left(\frac{p_xq_x}{n_x}\right)+\left(\frac{p_yq_y}{n_y}\right)$	$Z=\frac{\left(\widehat{p_x}-\widehat{p_y}\right)-(p_x-p_y)}{\sqrt{\left(\frac{p_xq_x}{n_x}\right)+\left(\frac{p_yq_y}{n_y}\right)}}$	$\left(\widehat{p_x}-\ \widehat{p_y}\right) \pm Z_{\frac{\alpha}{2}}\sqrt{\left(\frac{p_xq_x}{n_x}\right)+\left(\frac{p_yq_y}{n_y}\right)}$

Parámetro	media	varianza	estadístico	Intervalo de confianza
Razón de varianzas			$F = \frac{S_1^2 * \sigma_2^2}{S_2^2 * \sigma_1^2}$	$\frac{S_1{}^2}{S_2{}^2} * \frac{1}{f_{\frac{\alpha}{2},n_1-1,n_2-1}} < \frac{\boldsymbol{\sigma_1}^2}{\boldsymbol{\sigma_2}^2} < \frac{S_1{}^2}{S_2{}^2} * f_{\frac{\alpha}{2},n_2-1,n_1-1}$

Tamaños de muestra

Tamaño de muestra	finita	infinita
media	$n = \frac{Z^2\sigma^2}{e^2}$	$n = \frac{NZ^2\sigma^2}{(N-1)e^2 + Z^2\sigma^2}$
Proporción	$n = \frac{Z^2pq}{e^2}$	$n = \frac{NZ^2pq}{(N-1)e^2 + Z^2pq}$