	Confidence Interval	Hypothesis Testing	Sample Size
Population Proportion	$\hat{p} \pm z^{*}\sqrt{\frac{\hat{p}\,\hat{q}}{n}}$	$z=\frac{\hat{p}-p_0}{\sqrt{\frac{p_0 q_0}{n}}}$	$n=\frac{(z^{*})^2\hat{p}\,\hat{q}}{ME^2}$
Population mean (σ known)	$\bar{x} \pm z^{*}(\frac{\sigma}{\sqrt{n}})$	$z=\frac{\bar{x}-\mu_0}{\sigma/\sqrt{n}}$	$n=(\frac{z^{*}\sigma}{ME})^2$
Population mean (σ estimated) $df=(n-1)$	$\bar{x} \pm t^{*}(\frac{s}{\sqrt{n}})$	$t=\frac{\bar{x}-\mu_0}{s/\sqrt{n}}$	$n=(\frac{t^{*}s}{ME})^2$

	Confidence Interval	Hypothesis Testing
Difference between 2 population proportions	$(\hat{p}_1-\hat{p}_2) \pm z^{*}\sqrt{\frac{\hat{p}_1\hat{q}_1}{n_1}+\frac{\hat{p}_2\hat{q}_2}{n_2}}$	$z=\frac{(\hat{p}_1-\hat{p}_2)-0}{\sqrt{\frac{\hat{p}_1\hat{q}_1}{n_1}+\frac{\hat{p}_2\hat{q}_2}{n_2}}}$
Difference between 2 population means (σ estimated) $df=min((n_1-1),(n_2-1))$	$(\bar{x}_1-\bar{x}_2) \pm t^{*}\sqrt{\frac{s_1^2}{n_1}+\frac{s_2^2}{n_2}}$	$t=\frac{(\bar{x}_1-\bar{x}_2)-0}{\sqrt{\frac{s_1^2}{n_1}+\frac{s_2^2}{n_2}}}$
Population mean of paired differences (σ estimated) $df=(n-1)$	$\bar{d} \pm t^{*}\frac{s_d}{\sqrt{n}}$	$t=\frac{\bar{d}-0}{s_d/\sqrt{n}}$