Inference About?	1 or 2?	Model & df	Parameter	Statistic	Conditions	Confidence Interval	Test Statistic
PROPORTIONS	1	z	p	$\hat{p}$	$n\hat{p}>10$, $n(1-\hat{p})>10$ (INT.); $np>10$, $n(1-p)>10$ (TEST)	$\hat{p} \pm z^* \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$	$z = \frac{\hat{p}-p}{\sqrt{\frac{p(1-p)}{n}}}$
PROPORTIONS	2	z	$p_1 - p_2$	$\hat{p}_1 - \hat{p}_2$	$n_1\hat{p}_1$ & $n_1(1-\hat{p}_1)>10$; $n_2\hat{p}_2$ & $n_2(1-\hat{p}_2)>10$ (INT); $n_1\hat{p}_c$ & $n_2\hat{p}_c$ & $n_1(1-\hat{p}_c)$ & $n_2(1-\hat{p}_c)>10$ (TEST)	$\hat{p}_1-\hat{p}_2 \pm z^* \sqrt{\frac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \frac{\hat{p}_2(1-\hat{p}_2)}{n_2}}$	$z = \frac{\hat{p}_1 - \hat{p}_2 - 0}{\sqrt{\hat{p}_c(1-\hat{p}_c)\left(\frac{1}{n_1}+\frac{1}{n_2}\right)}}$
Means	1	t, df = n-1	μ	$\bar{x}$	$n>30$ OR GRAPH	$\bar{x} \pm t^* s/\sqrt{n}$	$t = \frac{\bar{x}-\mu}{s/\sqrt{n}}$
Means	1 matched	t, df = n-1	μ_D	$\bar{x}_D$	$n>30$ OR GRAPH	$\bar{x}_D \pm t^* s/\sqrt{n}$	$t = \frac{\bar{x}_D - \mu_D}{s/\sqrt{n}}$ ← USUALLY ZERO
Means	2	t, df = tech	$\mu_1 - \mu_2$	$\bar{x}_1 - \bar{x}_2$	n_1 & $n_2>30$ OR GRAPHS	$\bar{x}_1-\bar{x}_2 \pm t^* \sqrt{\frac{s_1^2}{n_1}+\frac{s_2^2}{n_2}}$	$t = \frac{(\bar{x}_1-\bar{x}_2)-0}{\sqrt{s_1^2/n_1 + s_2^2/n_2}}$
GOODNESS-OF-FIT DISTRIBUTION	1	χ^2, #CATG - 1			EACH EXP'D > 5	H_0: %'s = GIVEN; H_A: AT LEAST 1 DOES NOT	$\chi^2 = \sum \frac{(O-E)^2}{E}$
HOMOGENEITY DISTRIBUTION	MANY GROUPS	χ^2, $(r-1)(c-1)$			EACH EXP'D > 5	H_0: NO ASSOC; H_A: IS ASSOC	$\chi^2 = \sum \frac{(O-E)^2}{E}$
INDPENDENCE (2 VARS)	1	χ^2, $(r-1)(c-1)$			EACH EXP'D > 5	H_0: INDEP.; H_A: DEP.	$\chi^2 = \sum \frac{(O-E)^2}{E}$
ASSOCIATION 2 VARS	1	t, df = n-2	β	b	RESIDUALS SCATTERED & NORMAL	$b \pm t^* SE$	$t = \frac{b-0}{SE}$; $H_0: \beta=0$ $H_A: \beta\neq 0$

RANDOM SAMPLE/ASSIGNMENT
$n < 10\%$ POPULATION (IF SAMPLE)