

FORMULE:

$\mu = \frac{\sum x_i}{N}$	$\mu = \frac{\sum f_i x_i}{N}$	$\bar{x} = \frac{\sum x_i}{n}$	$\bar{x} = \frac{\sum f_i x_i}{\sum f_i}$	$\bar{x} = \sum p_i x_i$	$k = 1 + 3,3 \log N$	$l = \frac{X_{\max} - X_{\min}}{k}$
$Me = x_{\frac{n+1}{2}}$	$Me = \frac{x_{\frac{n}{2}} + x_{\frac{n+1}{2}}}{2}$	$M_e = L_1 + \frac{N - \sum f_i}{f_{Me}} i$		$M_o = L_1 + \frac{f_2 - f_1}{(f_2 - f_1) + (f_2 - f_3)} i$		$\frac{(n+1)P}{100}$
$I = X_{\max} - X_{\min}$		$I_q = Q_3 - Q_1$		$d = \frac{\sum x_i - \bar{x} }{n}$	$d = \frac{\sum f_i x_i - \bar{x} }{n}$	$Z = \frac{\bar{x} - \mu_0}{\frac{\sigma}{\sqrt{n}}}$
$\sigma = \sqrt{\sigma^2}$	$\sigma^2 = \frac{\sum x^2}{N} - \mu^2$	$\sigma^2 = \frac{\sum f x^2}{\sum f} - \mu^2$		$V = \frac{\sigma}{\mu} 100$	$n = \frac{z_{\alpha}^2 \sigma^2}{E^2}$	$t = \frac{\bar{x} - \mu_0}{\frac{s}{\sqrt{n}}}$
$s = \sqrt{s^2}$	$s^2 = \frac{\sum x^2 - n\bar{x}^2}{n-1}$	$s^2 = \frac{\sum f x^2 - n\bar{x}^2}{n-1}$		$Z = \frac{X - \mu}{\sigma}$	$n = \frac{z_{\alpha}^2 pq}{E^2}$	$Z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}}$
$p(A) = \frac{m(A)}{n(A)}$	$p(A \cap B) = p(A)p(B/A)$		$p(A/B) = \frac{p(A \cap B)}{p(B)}$		$p(A \cup B) = p(A) + p(B) - p(A \cap B)$	
$P(X=x) = \binom{n}{x} p^x q^{n-x}$		$P(X=x) = \frac{\mu^x e^{-\mu}}{x!}$		$C_r^n = \binom{n}{r} = \frac{n!}{r!(n-r)!}$		$P_r^n = \frac{n!}{(n-r)!}$
$C_{r_1}^{n_1} \cdot C_{r_2}^{n_2}$		$E(X) = \sum p_i \cdot x_i$		$Z = \frac{\bar{x} - \mu}{\frac{\sigma}{\sqrt{n}}}$		$Z = \frac{\hat{p} - p}{\sqrt{\frac{p(1-p)}{n}}}$
$\bar{x} - z_{\alpha} \frac{\sigma}{\sqrt{n}} \leq \mu \leq \bar{x} + z_{\alpha} \frac{\sigma}{\sqrt{n}}$				$\bar{x} - z_{\alpha} \frac{\sigma}{\sqrt{n}} \sqrt{\frac{N-n}{N-1}} \leq \mu \leq \bar{x} + z_{\alpha} \frac{\sigma}{\sqrt{n}} \sqrt{\frac{N-n}{N-1}}$		
$\bar{x} - t_{n-1; \frac{\alpha}{2}} \frac{s}{\sqrt{n}} \leq \mu \leq \bar{x} + t_{n-1; \frac{\alpha}{2}} \frac{s}{\sqrt{n}}$				$\bar{x} - t_{n-1; \frac{\alpha}{2}} \frac{s}{\sqrt{n}} \sqrt{\frac{N-n}{N-1}} \leq \mu \leq \bar{x} + t_{n-1; \frac{\alpha}{2}} \frac{s}{\sqrt{n}} \sqrt{\frac{N-n}{N-1}}$		
$\hat{p} - z_{\alpha} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \leq p \leq \hat{p} + z_{\alpha} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$				$\hat{p} - z_{\alpha} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \sqrt{\frac{N-n}{N-1}} \leq p \leq \hat{p} + z_{\alpha} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \sqrt{\frac{N-n}{N-1}}$		
$I_p = \frac{\sum p_i}{\sum p_0}$	$I_q = \frac{\sum q_i}{\sum q_0}$	$I_{pq} = \frac{\sum p_i q_i}{\sum p_0 q_0}$	$I_q = \frac{\sum q_i p_i}{\sum q_0 p_i}$	$I_q = \frac{\sum q_i p_0}{\sum q_0 p_0}$	$I_p = \frac{\sum p_i q_i}{\sum p_0 q_i}$	$I_p = \frac{\sum p_i q_0}{\sum p_0 q_0}$
$I_i = \frac{y_i}{y_o} 100$		$L_i = \frac{y_i}{y_{i-1}} 100$		$I_i = \frac{L_i \cdot I_{i-1}}{100}$		$I_i = \frac{I_{i+1}}{L_{i+1}} 100$

α	z_{α}
0.005	2.576
0.01	2.326
0.025	1.96
0.05	1.645
0.1	1.282

$\alpha/2$	$z_{\frac{\alpha}{2}}$
0.005	2.576
0.01	2.326
0.025	1.96
0.05	1.645
0.1	1.282

- $t_{0.025;7} = 2,365$
- $t_{0.025;6} = 2,447$
- $t_{0.025;10} = 2,228$
- $t_{0.005;24} = 2,797$
- $t_{0.025;4} = 2,776$
- $t_{0.025;13} = 2,16$
- $t_{0.05;9} = 1,833$
- $t_{0.025;14} = 2,145$
- $t_{0.005;7} = 3,499$
- $t_{0.005;14} = 2,977$
- $t_{0.025;24} = 2,064$