



COLA SUPERIOR DE ENFERMAGEM DE COIMBRA

Estatística Descritiva e Probabilidades I

FORMULÁRIO

ESTATÍSTICA DESCRITIVA / EXPLORATÓRIA:		
$\bar{X} = \frac{\sum Fx}{n}$	$Mo = li + \frac{d1}{d1 + d2} \times h$	$i = \frac{n+1}{2} \quad i = j \frac{n}{100}$ $Md = x_i \quad Pj = x_i$
$s = \sqrt{s^2} = \sqrt{\frac{\sum F_i x_i^2}{n} - \bar{X}^2}$	$Md = li + \frac{\frac{n}{2} - 'Fac}{F} \times h$	$Sp = li + \frac{i - 'Fac}{F} \times h$
$CV = \frac{s}{\bar{X}} \times 100$	$i^{(x)} = 'Fac + \frac{(x - li)F_i}{h_i}$	$J^{(P)} = \frac{i^{(x)}}{n} \times 100$
$q = \frac{Q_3 - Q_1}{2}$	$A_{p1} = \frac{\bar{X} - Mo}{s} \quad A_{p2} = \frac{3(\bar{X} - Md)}{s}$	$K = \frac{0,5(Q_3 - Q_1)}{P_{90} - P_{10}}$
$r = \frac{S_{xy}}{S_x S_y} = \frac{n \sum xy - \sum x \sum y}{\sqrt{[n \sum x^2 - (\sum x)^2][n \sum y^2 - (\sum y)^2]}}$		$r_s = 1 - \frac{6 \sum d^2}{n^3 - n}$
$b = \frac{n \sum xy - \sum x \sum y}{n \sum x^2 - (\sum x)^2} : a = \bar{X} - b \bar{Y}$	$V_{Cramer} = \sqrt{\frac{\chi^2}{n[\min.(C, L) - 1]}}$	$\chi^2 = \sum \frac{(Fo - Fe)^2}{Fe}$
PROBABILIDADES:		
$p(A \cap B) = p(A) \times p(B)$ $p(A \cap B) = p(A) \times p(B \setminus A)$ $p(A \cap B) = p(B) \times p(A \setminus B)$	$p(A \cup B) = p(A) + p(B)$ $p(A \cup B) = p(A) + p(B) - p(A \cap B)$	$p(A \setminus B) = \frac{p(A \cap B)}{P(B)}$
$E(X) = \sum_{i=1}^n x_i p(x_i)$	$\sigma^2 = \sum_{i=1}^n (x_i - \mu)^2 p(x_i)$	$p(A \setminus B) = \frac{p(A)p(B \setminus A)}{p(A)p(B \setminus A) + p(\tilde{A})p(B \setminus \tilde{A})}$
$P(X = x) = C_x^n \times p^x \times q^{n-x}$ $\mu = np$ $\sigma = \sqrt{np(1 - p)}$	$P(X = x) = e^{-\lambda} \frac{\lambda^x}{x!}$ $e = 2,718281$ $\mu = \lambda$ $\sigma = \sqrt{\lambda}$	$Z = \frac{x - \mu}{\sigma}$