

# Formulario utilizzato

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$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N} \quad \text{Media}$$

$$\sigma_x = \sqrt{\frac{\sum_{i=1}^N (x_i - \bar{x})^2}{N - 1}} \quad \text{Deviazione Standard}$$

$$\sigma_{\bar{x}} = \frac{\sigma_x}{\sqrt{N}} \quad \text{Deviazione Standard delle media}$$

$$z_{\text{oss}} = \frac{|\bar{x} - \mu|}{\sigma_{\bar{x}}} \quad \text{Variabile statistica } z$$

$$p - \text{value}_{\text{oss}} = 1 - \left( \frac{1}{\sqrt{2\pi}} \int_{-z_{\text{oss}}}^{+z_{\text{oss}}} e^{-\frac{z^2}{2}} dz \right) \quad \text{p-value}$$

$$P = \frac{1}{\sigma\sqrt{2\pi}} e^{\left(-\frac{(x_k - \bar{x})^2}{2\sigma^2}\right)} \Delta \quad \text{Probabilità}$$

$$E_k = \frac{1}{\sigma\sqrt{2\pi}} e^{\left(-\frac{(x_k - \bar{x})^2}{2\sigma^2}\right)} \Delta N \quad \text{Frequenza Assoluta Attesa}$$

$$\chi^2 = \sum_{k=1}^n \left( \frac{E_k - O_k}{\sigma_k} \right)^2 \quad \text{Chi-Quadro } \chi^2$$

$n$  = numero di misure accorpate