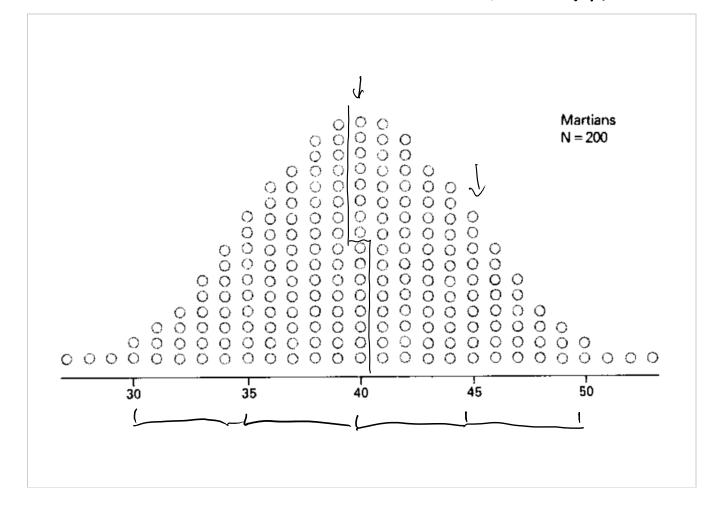
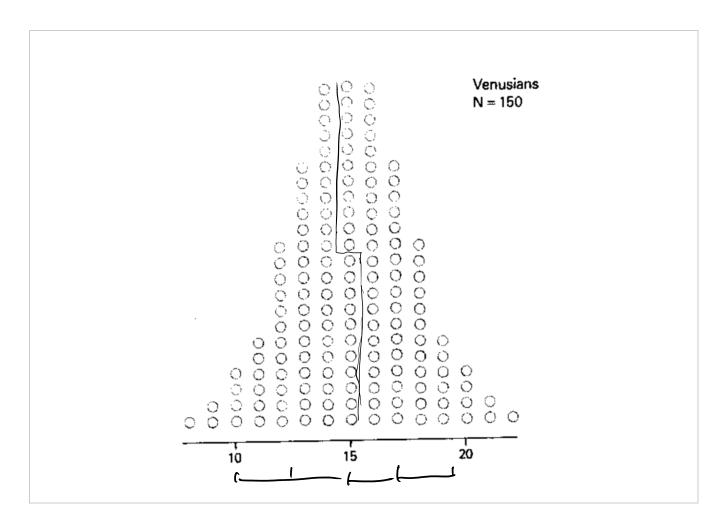
STATISTICA

DESCRITTIVA





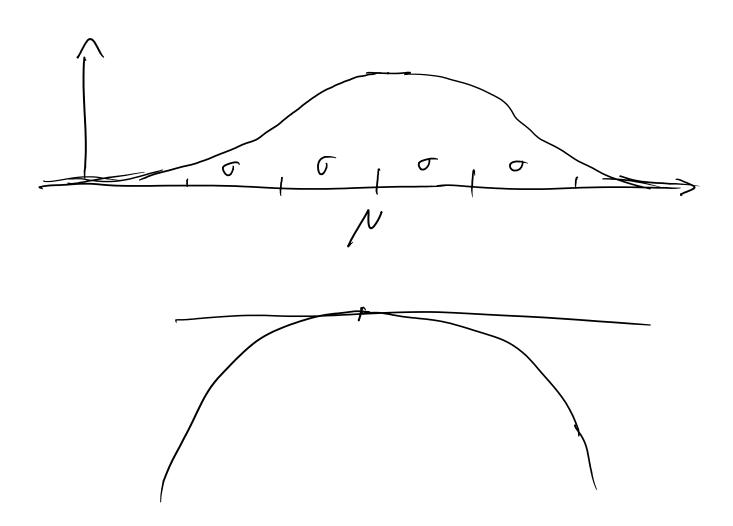
PARAMETRI:

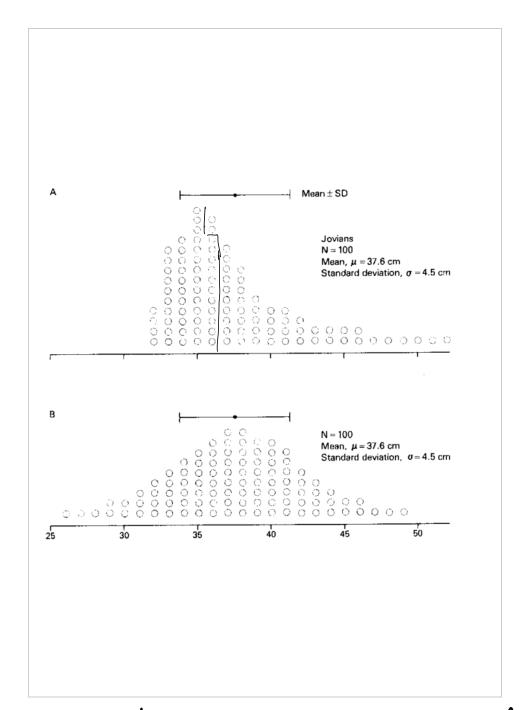
- media
$$p := \frac{1}{N} \sum_{i=1}^{N} (X_{i} - p)^{2}$$

- varianza $\sigma^{2} := \frac{1}{N} \sum_{i=1}^{N} (X_{i} - p)^{2}$

- deviatione standard: $\sigma = \sqrt{\sigma^{2}}$

- distributione normale of gammana:
$$f(n) = \frac{1}{\sqrt{\sigma^{2}}} e^{-\frac{\sigma^{2}}{2}} \frac{(n-p)^{2}}{\sigma^{2}}$$





- mediana: numere X tale che

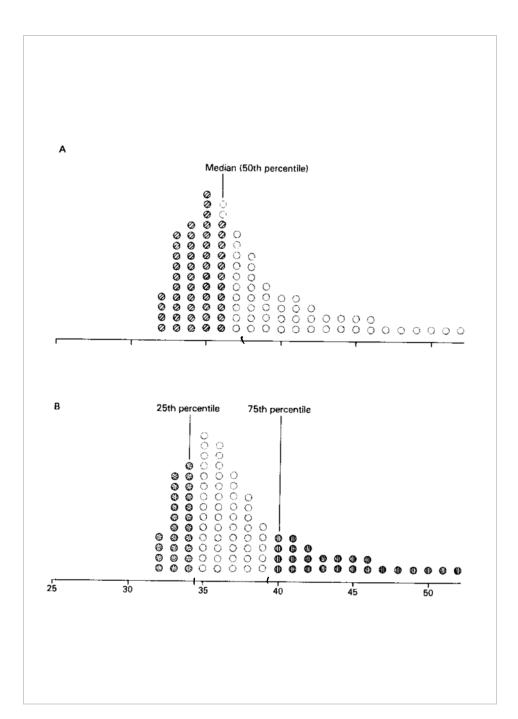
meta dei dati ē ≥ X

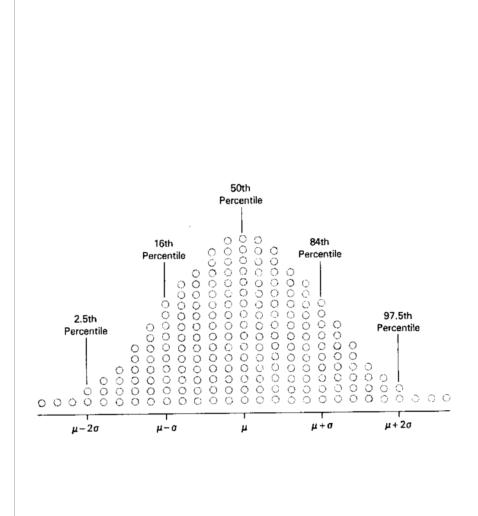
meta dei dati ē ≤ X

- recentile: numero tale che

α % dei dati ē ≤ X

(100-α) % dei dati ē ≥ X



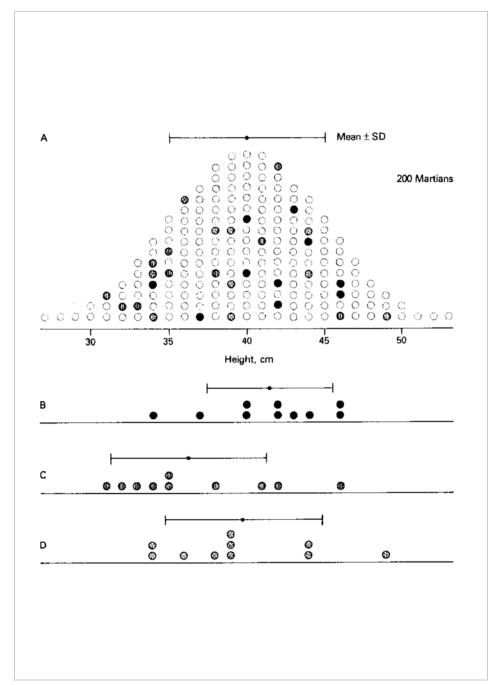


STATISTICA INFERENZIALE

- campione di taglia n: insieme di

n mismazioni di una caratteristica,

tratte da una popolazione più vasta



- media compionaria:

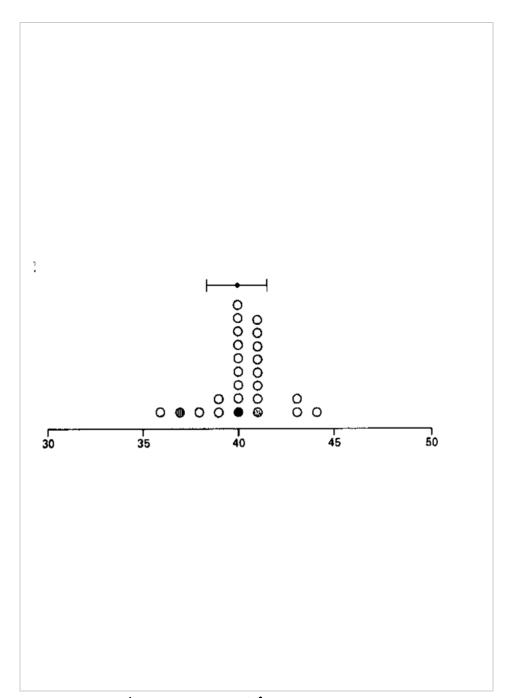
$$\overline{X} := \frac{1}{h} \sum_{i=1}^{n} X_{i}$$

- vouionte compionaria:

$$S_{x}^{2} := \frac{1}{h-1} \sum_{i=1}^{n} (X_{i} - \overline{X})^{2}$$

- deviazione standard campionaria

$$S_{x} := \sqrt{S_{x}^{2}}$$



- en ore standard della media:

$$\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$$

$$\sigma_{\bar{X}} = \frac{\sigma}{\sqrt{n}}$$
Atimatore: $S_{\bar{X}} = \frac{S_X}{\sqrt{n}}$

