

Sample - Population - Probability - Other

Formulas: Chapters 1-3

\bar{x} = sample mean

μ = population mean

Sample mean formula:

$$\bar{x} = \frac{\sum x}{n}$$

- Σ = "sum of"
- n = number of x 's

Sample variance formula:

$$s^2 = \frac{\sum (x - \bar{x})^2}{n - 1}$$

Sample standard deviation formula:

$$\sqrt{s^2}$$

Population variance formula:

$$\sigma^2 = \frac{\sum (x - \mu)^2}{N}$$

Population standard deviation

formula:

$$\sqrt{\sigma^2}$$

Chebychev's rule:

$$(1 - \frac{1}{k^2})$$

Sample z-score formula:

$$z = \frac{x - \bar{x}}{s}$$

Population z-score formula:

$$z = \frac{x - \mu}{\sigma}$$

Combinations rule:

$$\binom{N}{n} = \frac{N!}{n!(N-n)!}$$

Probability of an event:

$$P(\text{event}) = \frac{\text{number of ways Event can happen}}{\text{all possible outcomes}}$$

Rule of complements:

$$P(A) + P(A^c) = 1$$

Additive rule of probability:

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

Additive rule of probability for mutually exclusive events:

$$P(A \cup B) = P(A) + P(B)$$

Conditional probability formula:

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

Multiplicative Rule of Probability:

$$P(A \cap B) = P(B) \times P(A|B)$$

Multiplicative Rule of Probability of events are independent:

$$P(A \cap B) = P(A) \times P(B)$$

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Guillaume Favre



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