

CHI SQUARE FORMULA

Chi-square is an analysis of data based on some observations of random variables. It is represented as x². Provide an introduction to chi-squared tests and their importance in statistics. Chi-square has invaluable significance in statistics. It can be used for comparing two data. This test was coined by Karl Pearson in the year 1900.

Read more





Q1: What does a high chi-squared statistic value indicate in a chi-squared test?

- A: Strong connection between variables
- B: Weak link with variables
- C: No connection with variables
- D: Incomplete data

Q2: What are the degrees of freedom in a chi-squared test?

- A: A measure of the number of data points
- B: Measurement of spread of data
- C: The number of rows subtract columns
- D: (Rows 1) multiply with (Columns 1) for a cross tabulation table

Q3: What does a p-value in a chi-squared test reflect?

- A: Data proportion that fits the expected distribution
- B: Probability of getting the observed results by chance
- C: Association strength between variables
- D: Degrees of freedom

Q4: How to represent chi-square?

A: x² B: y² C: z² D: None of the above

Q5: How is chi-square useful?

A: Data distribution

- B: In a relationship with two variables
- C: Data Analysis
- D: both B and C



Q6: What is the formula for chi-square?

A: $x^2 = \sum (Oi - Ei)^2 / E$ B: Y^2 C: none of the above

Q7: Is Chi-square useful in present life?

A: Yes B: No

Q8: Where is the usefulness of chi-square?

A: Comparing two data B: Analysis of two data C: Draw conclusions D: All of the Above

Q9: What are two types of hypotheses in chi-square?

A: Null hypothesis B: Alternative C: Both A and B D: None of the above

Q10: What is the objective of chi-square?

- A: Population
- **B:** Distribution
- C: Find the relationship between the variable
- D: None of them





Answers

- Q1: A Strong connection between variables
- Q2: D (Rows 1) multiply with (Columns 1) for a cross tabulation table
- Q3: B Probability of getting the observed results by chance
- **Q4:** A x²
- Q5: D both B and C
- **Q6:** A x² = ∑(Oi Ei)²/E
- **Q7:** A Yes
- Q8: D All of the Above
- Q9: C Both A and B
- Q10: C Find the relationship between the variable