

A research hypothesis is a specific, clear, and testable proposition or predictive statement about the possible outcome of a scientific research study based on a particular property of a population, such as presumed differences between groups on a particular variable or relationships between variables.

Scale and sampling frame

is the collection of items from which a sample has to be taken. A sampling frame is a list of the items of the population from which a sample is to be obtained. ... The remaining households in the sampling frame become the actual sampled population. In an ideal situation, the population and the sampling frame are same.

.PIE Diagram

A pie diagram is a circular diagram divided into sectors, illustrating proportion. In a pie diagram, the arc length of each sector is proportional to the quantity it represents.

You can edit text, set pie shapes' colors, shades and styles.

As a data visualization tool, pie diagram can be used very broadly. It can be included in data dashboard or used for displaying survey result. See the following pie diagram examples. You can click to download the original file and use as starting template.

A chi-square test, also written as χ^2 test, is a statistical hypothesis test that is valid to perform when the test statistic is chi-square distributed under the null hypothesis, specifically Pearson's chi-square test and variants thereof. Pearson's chi-square test is used to determine whether there is a statistically significant difference between the expected frequencies and the observed frequencies in one or more categories of a contingency table.

In the standard applications of this test, the observations are classified into mutually exclusive classes. If the null hypothesis (that in the population there is no difference between the classes) is true, the test statistic computed from the observations follows a χ^2 frequency distribution. The purpose of the test is to evaluate how likely the observed frequencies would be assuming the null hypothesis is true.