

What is the role of pie charts in representing statistical data?

Authored by
stats writer

June 29, 2024

RECOMMENDED CITATION

stats writer (2024). *What is the role of pie charts in representing statistical data?*.
PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=158901>

A pie chart is a visual representation of statistical data, commonly used to display the distribution or proportion of a particular data set. It consists of a circular graph divided into slices, with each slice representing a different category or group of data. The size of each slice is proportional to the percentage or numerical value it represents, allowing for a quick and easy understanding of the data. The role of pie charts in representing statistical data is to provide a clear and concise visual representation of complex information, making it easier for the viewer to interpret and analyze the data. They are commonly used in business, research, and education to present data in a visually appealing and easily understandable manner.

Statistics - Pie Charts

A pie chart visually presents qualitative data.

Pie Charts

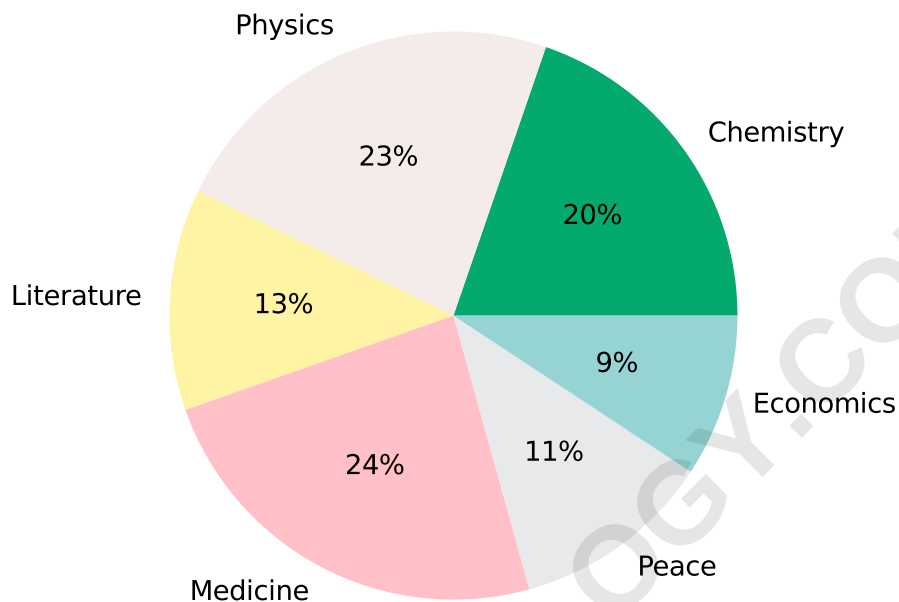
Pie graphs are used to show the distribution of qualitative (categorical) data.

It shows the **frequency** or **relative frequency** of values in the data.

Frequency is the amount of times that value appeared in the data. Relative frequency is the percentage of the total.

Each category is represented with a slice in the 'pie' (circle). The size of each slice represents the frequency of values from that category in the data.

Here is a pie chart of the number of people who have won a Nobel Prize in each category up to the year 2020:



This pie chart shows relative frequency. So each slice is sized by the percentage for each category.

Some of the categories have existed longer than others. Multiple winners are also more common in some categories. So there is a different number of winners in each category.

★+1 W3schools PathfinderTrack your progress - it's free!

[Log in](#)

[Sign Up](#)