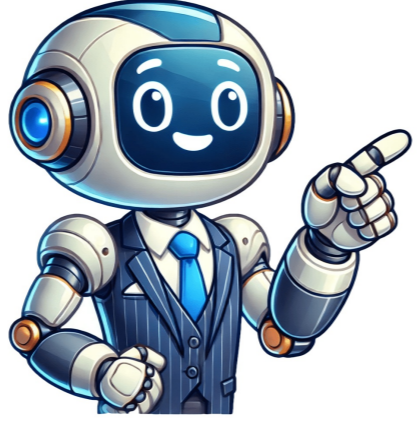


I'm not a robot

































the data:Cumulative Sales: Helps in understanding the overall revenue growth over the period. This data can help businesses track growth, set future sales targets, and make informed decisions about inventory and marketingCumulative Max and Min Temperatures: Show the extremes that have been reached throughout the dataset, which can be crucial for climate studies or resource planning. Setting performance benchmarks based on these values allows businesses to measure current performance against historical highs and manage risks accordinglyCumulative Product of Satisfaction: Although less common, this can illustrate compounding effects in scenarios where satisfaction metrics multiply over customer interactions. In finance, understanding compound growth over time is essential for investment planning and strategy developmentSo whats next?As you can see, learning to use summary statistics with Python can be incredibly beneficial if youre looking to start analyzing your data and form insights from it.I know weve only gleaned the surface of what's possible here, but you now have a much better idea of what's possible, and how easy it can be to use.And dont worry if you can't follow everything. Remember, the path to becoming a proficient data analyst or data scientist is a marathon, not a sprint. By continually applying these techniques and expanding your knowledge, youll become more adept at uncovering the stories your data has to tell.Stick with it and youll understand your data and your business far better now and in the future!P.S.Remember, if you want to learn everything about summary statistics (as well as how to use Python), then check out my complete course!No prior coding or math experience is required, as everything is taught from scratch inside the course. Youll learn statistics from an industry expert (me) and even have fun!And because one of the best ways to learn is by doing and applying, you also build 6 different statistics-based projects, as well as solidify your skills with 18 quizzes, practice tests, and challenges. Plus you'll also learn how to utilize ChatGPT to work with statistics and conduct data analysis efficiently so youre ahead of the curve!And as an added bonus?When you take this course and join the Zero To Mastery Academy, youll also have access to every data analytics course that we cover, as well as access to our private Discord server.Here you can ask questions of me directly (or any teacher) as well as fellow students and working professionals! Share copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Share copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Statistics is the study of the collection, analysis, interpretation, presentation, and organization of data. In other words, it is a mathematical discipline to collect, summarize data. Also, we can say that statistics is a branch of applied mathematics. However, there are two important and basic ideas involved in statistics; they are uncertainty and variation.The uncertainty and variation in different fields can be determined only through statistical analysis. These uncertainties are basically determined by the probability that plays an important role in statistics. What is Statistics?Statistics is simply defined as the study and manipulation of data. As we have already discussed in the introduction that statistics deals with the analysis and computation of numerical data. Let us see more definitions of statistics given by different authors here.According to Merriam-Webster dictionary, statistics is defined as classified facts representing the conditions of a people in a state especially the facts that can be stated in numbers or any other tabular or classified arrangement.According to statistician Sir Arthur Lyon Bowley, statistics is defined as Numerical statements of facts in any department of inquiry placed in relation to each other.Statistics Download PDF Statistics ExamplesSome of the real-life examples of statistics are:To find the mean of the marks obtained by each student in the class whose strength is 50. The average value here is the statistics of the marks obtained.Suppose you need to find how many members are employed in a city. Since the city is populated with 15 lakh people, hence we will take a survey here for 1000 people (sample). Based on that, we will create the data, which is the statistic. Basics of StatisticsThe basics of statistics include the measure of central tendency andthe measure of dispersion. The central tendencies aremean, median and modeand dispersions comprise variance and standard deviation.Mean is the average of the observations. Median is the central value when observations are arranged in order. The mode determines the most frequent observations in a data set.Variation is the measure of spread out of the collection of data. Standard deviation is the measure of the dispersion of data from the mean. The square of standard deviation is equal to the variance. Mathematical StatisticsMathematical statistics is the application of Mathematics to Statistics, which was initially conceived as the science of the state the collection and analysis of facts about a country: its economy, and, military, population, and so forth.Mathematical techniques used for different analytics include mathematical analysis, linear algebra, stochastic analysis, differential equation and measure-theoretic probability theory. Types of StatisticsBasically, there are two types of statistics, Descriptive StatisticsInferential StatisticsIn the case of descriptive statistics, the data or collection of data is described in summary. But in the case of inferential stats, it is used to explain the descriptive one. Both these types have been used on large scale.Descriptive StatisticsThe data is summarised and explained in descriptive statistics. The summarization is done from a population sample utilising several factors such as mean and standard deviation. Descriptive statistics is a way of organising, representing, and explaining a set of data using charts, graphs, and summary measures. Histograms, pie charts, bars, and scatter plots are common ways to summarise data and present it in tables or graphs. Descriptive statistics are just that: descriptive. They dont need to be normalised beyond the data they collect.Inferential StatisticsWe attempt to interpret the meaning of descriptive statistics using inferential statistics. We utilise inferential statistics to convey the meaning of the collected data after it has been collected, evaluated, and summarised. The probability principle is used in inferential statistics to determine if patterns found in a study sample may be extrapolated to the wider population from which the sample was drawn. Inferential statistics are used to test hypotheses and study correlations between variables, and they can also be used to predict population sizes. Inferential statistics are used to derive conclusions and inferences from samples, i.e. to create accurate generalisations.Statistics FormulasThe formulas that are commonly used in statistical analysis are given in the table below.Sample Standard Deviation, (s)Range, (R)Largest data value smallest data value Summary StatisticsIn Statistics, summary statistics are a part of descriptive statistics (Which is one of the types of statistics), which gives the list of information about sample data. We know that statistics deals with the presentation of data visually and quantitatively. Thus, summary statistics deals with summarizing the statistical information. Summary statistics generally deal with condensing the data in a simpler form, so that the observer can understand the information at a glance.Generally, statisticians try to describe the observations by finding:The measure of central tendency or mean of the locations, such as arithmetic mean.The measure of distribution shapes like skewness or kurtosis.The measure of dispersion such as the standard mean absolute deviation.The measure of statistical dependence such as correlation coefficient.Summary Statistics TableThe summary statistics table is the visual representation of summarized statistical information about the data in tabular form.For example, the blood group of 20 students in the class are O, A, B, AB, B, B, AB, O, A, B, B, AB, AB, O, O, B, A, AB, B, A.Blood GroupNo. of StudentsO4A4B7AB5Total20Thus, the summary statistics table shows that 4 students in the class have O blood group, 4 students have A blood group, 7 students in the class have B blood group and 5 students in the class have AB blood group.The summary statistics table is generally used to represent the big data related to population, unemployment, and the economy to be summarized systematically to interpret the accurate result. Scope of StatisticsStatistics is used in many sectors such as psychology, geology, sociology, weather forecasting, probability and much more. The goal of statistics is to gain understanding from the data, it focuses on applications, and hence, it is distinctively considered as a mathematical science. Methods in StatisticsThe methods involve collecting, summarizing, analyzing, and interpreting variable numerical data. Here some of the methods are provided below.Data collectionData summarizationStatistical analysis What is Data in Statistics?Data is a collection of facts, such as numbers, words, measurements, observations etc. Types of DataQualitative data- it is descriptive data.Example- She can run fast, He is thin.Quantitative data- it is numerical information.Example- An Octopus is an Eight legged creature. Types of quantitative dataDiscrete data- has a particular fixed value. It can be countedContinuous data- is not fixed but has a range of data. It can be measured. Representation of DataThere are different ways to represent data such as through graphs, charts or tables. The general representation of statistical data are:Bar GraphPie ChartLine GraphPictographHistogramFrequency DistributionBar GraphA Bar Graph represents grouped data with rectangular bars with lengths proportional to the values that they represent. The bars can be plotted vertically or horizontally.Pie ChartA type of graph in which a circle is divided into Sectors. Each of these sectors represents a proportion of the whole.Line graphThe line chart is represented by a series of data points connected with a straight line.The series of data points are called markers.PictographA pictorial symbol for a word or phrase, i.e. showing data with the help of pictures. Such as Apple, Banana & Cherry can have different numbers, and it is just a representation of data.HistogramA diagram is consisting of rectangles. Whose area is proportional to the frequency of a variable and whose width is equal to the class interval.Frequency DistributionThe frequency of a data value is often represented by f. A frequency table is constructed by arranging collected data values in ascending order of magnitude with their corresponding frequencies. Measures of Central TendencyIn Mathematics, statistics are used to describe the central tendencies of the grouped and ungrouped data. The three measures of central tendency are: All three measures of central tendency are used to find the central value of the set of data. Measures of DispersionIn statistics, the dispersion measures help interpret data variability, i.e. to understand how homogenous or heterogeneous the data is. In simple words, it indicates how squeezed or scattered the variable is. However, there are two types of dispersion measures, absolute and relative. They are tabulated as below: Skewness in StatisticsSkewness, in statistics, is a measure of the asymmetry in a probability distribution. It measures the deviation of the curve of the normal distribution for a given set of data.The value of skewed distribution could be positive or negative or zero. Usually, the bell curve of normal distribution has zero skewness. ANOVA StatisticsANOVA Stands for Analysis of Variance. It is a collection of statistical models, used to measure the mean difference for the given set of data.Degrees of freedomIn statistical analysis, the degree of freedom is used for the values that are free to change. The independent data or information that can be moved while estimating a parameter is the degree of freedom of information.Applications of StatisticsStatistics have huge applications across various fields in Mathematics as well as in real life. Some of the applications of statistics are given below:Applied statistics, theoretical statistics and mathematical statisticsMachine learning and data miningStatistics in societyStatistical computingStatistics applied to the mathematics of the artsVideo LessonGrade 11 Statistics-Statistics Related Articles Hope this detailed discussion and formulas on statistics will help you to solve problems quickly and efficiently. Learn more Maths concepts at BYJU'S with the help of interactive videos.Statistics is a branch that deals with the study of the collection, analysis, interpretation, organisation, and presentation of data. Mathematically, statistics is defined as the set of equations, which are used to analyse things.The two different types of statistics used for analyzing the data are:Descriptive Statistics: It summarizes the data from the sample using indexesInferential Statistics: It concludes from the data which are subjected to the random variationSummary statistics is a type of descriptive statistics, which is used to summarize the set of observations with large information as simply as possible. Statisticians used to describe the observation by finding the measures of central tendency, statistical dispersion, statistical dependence, and the shape of the distribution.Statistics is a part of Applied Mathematics that uses probability theory to generalize the collected sample data. It helps to characterize the likelihood where the generalizations of data are accurate. This is known as statistical inference.Statistics make us learn to utilize a restricted sample to make accurate determinations about a more prominent populace. The utilization of tables, diagrams, and graphs assumes a crucial part in introducing the information being utilized to reach these determinations.Statistics encourages you to utilize legitimate strategies to gather the information, utilize the right examinations, and successfully present the outcomes. Measurement is a significant cycle behind how we make disclosures in science, settle on choices dependent on information, and make forecasts.

**What is simple correlation in statistics. What is dispersion in statistics in simple words. What is inferential statistics in simple words. What is variance in statistics in simple terms. What is mean in statistics in simple words. What is a parameter in statistics simple definition. What is regression in statistics in simple words. What is p value in statistics in simple words. What is a simple event in statistics. What is statistics in simple words. What is simple bar diagram in statistics. What is a simple random sample in statistics. What is standard deviation in statistics in simple terms. What is statistics in simple terms. What is descriptive statistics in simple words.**

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