

How do I calculate descriptive statistics in Google Sheets?

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To calculate descriptive statistics in Google Sheets, you will need to first organize your data into columns or rows. Then, use the built-in functions such as AVERAGE, MEDIAN, and STANDARD DEVIATION to calculate the mean, median, and standard deviation of your data. You can also use the QUARTILE and PERCENTILE functions to find the quartiles and percentiles of your data. Additionally, you can use the COUNT, COUNTA, and COUNTIF functions to determine the number of data points, non-empty cells, and cells that meet specific criteria, respectively. These functions can be applied to a single column or row, or to a range of data. By utilizing these functions, you can easily generate descriptive statistics for your data in Google Sheets.

Calculate Descriptive Statistics in Google Sheets

Descriptive statistics are values that describe a dataset. They help us gain an understanding of where the center of the dataset is located along with how spread out the values are in the dataset.

The following example shows how to calculate the following descriptive statistics for a dataset in Google Sheets:

Mean (the average value) Median (the middle value) Mode (the most frequently occurring value) Range (the difference between minimum and maximum value) Standard deviation (the spread of the values) Sample size (total number of observations)

Example: Calculating Descriptive Statistics in Google Sheets

Suppose we have the following dataset with 20 values

in Google Sheets:

	A	B	C	D	E
1	Dataset				
2	5				
3	20				
4	14				
5	13				
6	8				
7	6				
8	6				
9	15				
10	10				
11	12				
12	17				
13	27				
14	22				
15	21				
16	13				
17	29				
18	4				
19	18				
20	31				
21	35				
22					
23					
24					

The following screenshot shows how to calculate various descriptive statistics for this dataset, including the formulas used:

	A	B	C	D	E
1	Dataset		Mean	16.3	=AVERAGE(A2:A21)
2	5		Median	14.5	=MEDIAN(A2:A21)
3	20		Mode	13	=MODE(A2:A21)
4	14		Range	31	=MAX(A2:A21) - MIN(A2:A21)
5	13		Standard Dev.	9.0618	=STDEV(A2:A21)
6	8		Sample size	20	=COUNTA(A2:A21)
7	6				
8	6				
9	15				
10	10				
11	12				
12	17				
13	27				
14	22				
15	21				
16	13				
17	29				
18	4				
19	18				
20	31				
21	35				
22					
23					
24					

We can use the following descriptive statistics to get an idea of where the center of the dataset is located:

Mean: 16.3 Median: 14.5 Mode: 13

We can use the following descriptive statistics to get an idea of how spread out the values are in the dataset:

Range: 31 Standard Deviation: 9.0618

Lastly, we can use the following descriptive statistic to

understand how many total observations are in the dataset:

Sample Size: 20

Using these six descriptive statistics, we can gain a pretty good understanding of the distribution of values in this dataset.

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