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* What is correlation?

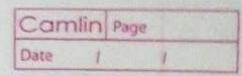
Correlation gives the indication of how strong is the relationship between two variables. Ranges from -1 to +1.

	Correlation	Value	Variable 1	Variable 2
10	Negative	-1	1	1
	Positive	+1	1	1
5	Zero	0	1/4	No effect

* What is exploratory data analysis?

Exploratory data analysis is the process of performing investigations on data to lenderstand the data better using graphs and plots.

* How is missing data handled in statistics? -> Brediction of the missing values - Assignment of unique values - Deletion of rows having missing data - Mean or median imputation Ilsing random forests, which supports missing values. * What is an outlies? How can outliers be determined in a dataset? > Outliers are data points that vary in a large way when compared to other observations in the dataset. Outliers can be determined using the below methods. · Standard deviation/z-score Interquartile range (IQR)



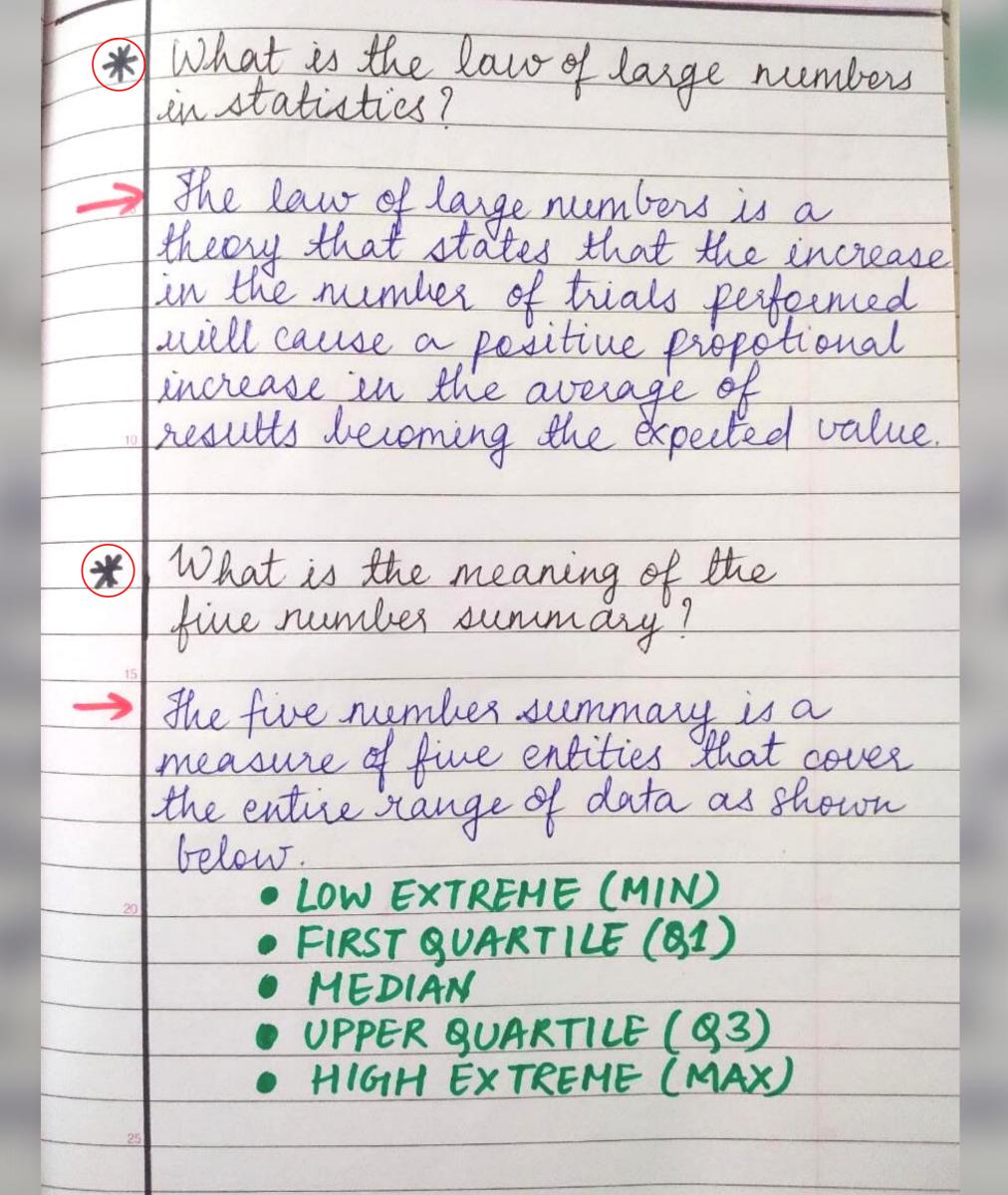
* What is the meaning of standard deviation?

> Standard deviation regresents the magnitude of how far the data points are from the mean. A low value indicates that the data is dose to the mean and nice versa.

* What is skewness?

Skewness measures the lack of symmetry in a data distribution. It indicates that there are significant differences between the mean, the mode and the median of the data.

* What is an alternative hypothesis? The alternative hypothesis (denoted by HI) is the statement that must he true if the nell hypothesis is false. It is the opposite point of view that gets proven right evhen the nell hypothesis is proven * What are some of the properties of a normal distribution? Ilrimodal: has only one mode Symmetrical: left and right halves of the curve are mirrored. Central tendency: the mean, median and mode are at the midpoint.





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