Q7) Calculate Mean, Median, Mode, Variance, Standard Deviation, Range & comment about the values / draw inferences, for the given dataset

* For Points,Score,Weigh>

Find Mean, Median, Mode, Variance, Standard Deviation, and Range and also Comment about the values/ Draw some inferences.

Ans:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Points | Score | Weigh |
| Mean | 3.596563 | 3.21725 | 17.84875 |
| Median | 3.695 | 3.325 | 17.71 |
| Mode | numeric | numeric | numeric |
| Variance | 0.2858814 | 0.957379 | 3.193166 |
| Standard Deviation | 0.5346787 | 0.9784574 | 1.786943 |
| Range | 2.76-4.93 | 1.512-5.424 | 14.5-22.9 |

mean(Q7$Points)

median(Q7$Points)

mode(Q7$Points)

var(Q7$Points)

sd(Q7$Points)

range(Q7$Points)

mean(Q7$Weigh)

median(Q7$Weigh)

mode(Q7$Weigh)

var(Q7$Weigh)

sd(Q7$Weigh)

range(Q7$Weigh)

mean(Q7$Score)

median(Q7$Score)

mode(Q7$Score)

var(Q7$Score)

sd(Q7$Score)

range(Q7$Score)

Q9) Calculate Skewness, Kurtosis & draw inferences on the following data

Cars speed and distance

Use Q9\_a.csv

Install.packages(“moments”)

Library(moments)

skewness(Q9\_a$speed)

-0.1139548

kurtosis(Q9\_a$speed)

2.422853

Skewness(Q9\_a$dist)

[1] 0.7824835

Kurtosis(Q9\_a$dist)

[1] 3.248019

SP and Weight(WT)

Use Q9\_b.csv

Skewness(Q9\_b$SP)

1.581454

Kurtosis(Q9\_b$SP)

5.723521

skewness(Q9\_b$WT)

-0.6033099

kurtosis(Q9\_b$WT)

3.819466

|  |  |
| --- | --- |
| Activity | Data Type |
| Number of beatings from Wife |  |
| Results of rolling a dice |  |
| Weight of a person |  |
| Weight of Gold |  |
| Distance between two places |  |
| Length of a leaf |  |
| Dog's weight |  |
| Blue Color |  |
| Number of kids |  |
| Number of tickets in Indian railways |  |
| Number of times married |  |
| Gender (Male or Female) |  |

Q1) Identify the Data type for the Following:

Q2) Identify the Data types, which were among the following

Nominal, Ordinal, Interval, Ratio.

|  |  |
| --- | --- |
| Data | Data Type |
| Gender |  |
| High School Class Ranking |  |
| Celsius Temperature |  |
| Weight |  |
| Hair Color |  |
| Socioeconomic Status |  |
| Fahrenheit Temperature |  |
| Height |  |
| Type of living accommodation |  |
| Level of Agreement |  |
| IQ(Intelligence Scale) |  |
| Sales Figures |  |
| Blood Group |  |
| Time Of Day |  |
| Time on a Clock with Hands |  |
| Number of Children |  |
| Religious Preference |  |
| Barometer Pressure |  |
| SAT Scores |  |
| Years of Education |  |

|  |  |
| --- | --- |
| Activity | Data Type |
| Number of beatings from Wife |  |
| Results of rolling a dice |  |
| Weight of a person |  |
| Weight of Gold |  |
| Distance between two places |  |
| Length of a leaf |  |
| Dog's weight |  |
| Blue Color |  |
| Number of kids |  |
| Number of tickets in Indian railways |  |
| Number of times married |  |
| Gender (Male or Female) |  |