PSY2007 W2A2

Similar to a real experiment, you will collect data this week that will be used throughout the course. Each week, as you learn about various statistical analyses, you will apply that knowledge to the data that you have collected to see a real-life application of the statistical concepts.

Imagine that you are collecting data to determine what factors influence an individual's general satisfaction with life. You decide to examine several possible variables and measure the three aspects of life satisfaction. Collect the following data from nine individuals from diverse backgrounds (i.e., they should not all be family members or friends). The nine subjects should be equally distributed among the political affiliations, so you should have three Republicans, three Democrats, and three Independents/other.

Name (not the full name, to protect privacy)
Age
Height
Gender
Years of college
Political affiliation
Hours worked per week
Satisfaction with job (on a scale of 1 to 10)
Satisfaction with income (on a scale of 1 to 10)
Satisfaction with the economy (on a scale of 1 to 10)

For each of the variables, manually calculate the mean, the median, the mode, the standard deviation, and the variance and interpret the data regarding any interesting trends observed. For example, if you find that there are more individuals who are happy with their jobs, other variables might be the contributing factors, such as how many hours they worked or how much money they made. You could then conclude that money can contribute to one's happiness! Look for as many trends as you can and come up with your own novel interpretations of why they occurred.

**The dataset is attached.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Age | Height | Year of College | Hours worked per week | Satisfaction with job | Satisfaction with income | Satisfaction with the economy |
| Mean | 21.7 | 64.1 | 2.2 | 17 | 3.4 | 3.2 | 3.6 |
| Median | 21 | 63.5 | 2 | 15 | 3 | 3 | 4 |
| Mode | 20 | 63 | 1 | 15 | 3 | 3 | 5 |
| SD | 1.702939 | 8.2253 | 1.316561 | 10.5935 | 2.1187 | 1.135292 | 1.577621 |
| Variance | 2.9 | 67.65556 | 1.733333 | 112.2222 | 4.488889 | 1.288889 | 2.488889 |