Text

Description automatically generated

This information will be biased, because families with more kids are more likely to be polled at random than families with only one kid, this would overestimate the size of a family. It would be better to poll the parents instead.

Text

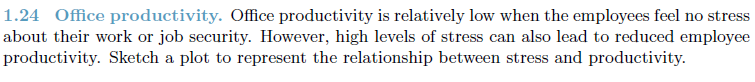
Description automatically generated

1. The parents that had time to fill out this survey are more likely to have free time to spend with there kids than parents who are busy because of work, and unable to spend time with their kids and not be able to complete this survey.
2. 567 Is too small of a group to test, and you need a larger group to understand the effects of smoking through a survey.
3. The group with hurt joints can’t run as easily because they have joint problems. And there is no control group of people who don’t go to the orthopedist

Text, letter

Description automatically generated

1. This was an experiment because the researchers gave the volunteers different items, instead of just observing them.
2. The explanatory Variables where 1g of Vitamin C, 3g Vitamin C, or 3g Vitamin C plus additives.  
   The Response Variable was the duration of the cold.
3. Yes, The patients where blinded
4. The researchers where blinded, however the nursers were not. So, it is a mix of double-blind and not double-blind.
5. The patients where randomly distributed, so it is safe to assume that those who would not take their pills would also be randomly distributed. Not effecting the study

Chart, line chart

Description automatically generated

A picture containing text

Description automatically generated

1. 5.5 hours Is the clamed Population mean and 6.5 hours is the Sample mean
2. $52 Is the clamed Population mean and $58 is the Sample mean
3. 3.37 GPA Is the clamed Population mean and 3.59 GPA is the Sample mean

Table

Description automatically generated

1. The average amount of cigarettes on Weekends: 20  
   The average amount of cigarettes on Weekdays: 16
2. The standard deviation on Weekends: 0
3. The standard deviation on Weekdays: 4.18

Chart, histogram

Description automatically generated

1. Q1: 12  
   median: 25  
   Q3: 50
2. The mean will be greater than the median because the data is shoed to the right

Chart

Description automatically generated

1. Within the Histogram, we can now see the two peaks or modes  
   Within the Boxplot, we can now see the the median Value
2. The reason for the two peaks/modes is because men in woman have different average times.
3. Men on average finish the marathon faster then woman, and woman have a higher variance of times than men.
4. Men and woman are running faster times, as the years go on, although it is exponentially slowing down. It also appears that woman are getting closer and closer to men’s marathon times.

A picture containing chart

Description automatically generated

1. The graph shoes that the more liberal people are more likely to support the DREAM act then conservatives and moderates. Showing political ideology and views of the DREAM act are not independent.