Week 1 Lab: Introduction to R and RStudio

8/8 points earned (100%)

Quiz passed!

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1 / 1 points

1.
How many variables are included in this data set (data set: arbuthnot)?

- 82
- 1710
- 3

Correct Response

- 2
- 4

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1 / 1 points

2.
What command would you use to extract just the counts of girls born?

- arbuthnot[girls]
- $girls
- arbuthnot$girls

Correct Response

- girls
- arbuthnot$boys

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1 / 1 points

3.
Which of the following best describes the number of girls baptised over the years included in this dataset?

- There appears to be no trend in the number of girls baptised from 1629 to 1710
- There is initially an increase in the number of girls baptised, which peaks around 1640. After 1640 there is a decrease in the number of girls baptised, but the number begins to increase again in 1660. Overall the trend is an increase in the number of girls baptised.

Correct Response

- The number of girls baptised has decreased over time.
- There is an initial increase in the number of girls baptised but this number appears to level around 1680 and not change after that time point.
- There is initially an increase in the number of girls baptised. This number peaks around 1640 and then after 1640 the number of girls baptised decreases.

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1 / 1
points

4.

How many variables are included in this data set (data set: present)?

- 74
- 4
- 3

Correct Response

- 2
- 2013

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1 / 1
points

5.

Calculate the total number of births for each year and store these values in a new variable called total in thepresent dataset. Then, calculate the proportion of boys born each year and store these values in a new variable called prop_boys in the same dataset. Plot these values over time and based on the plot determine if the following statement is true or false: The proportion of boys born in the US has decreased over time.

- True

Correct Response

- False

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1 / 1
points

6.

Create a new variable called more_boys which contains the value of either TRUE if that year had more boys than girls, or FALSE if that year did not. Based on this variable which of the following statements is true?

- Every year there are more girls born than boys.
- Half of the years there are more boys born, and the other half more girls born.
- Every year there are more boys born than girls.

Correct Response

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1 / 1 points

7.

Calculate the boy-to-girl ratio each year, and store these values in a new variable called prop_boy_girl in the present dataset. Plot these values over time. Which of the following best describes the trend?

- There is initially an increase in boy-to-girl ratio, which peaks around 1960. After 1960 there is a decrease in the boy-to-girl ratio, but the number begins to increase in the mid 1970s.
- There is initially a decrease in the boy-to-girl ratio, and then an increase between 1960 and 1970, followed by a decrease.

Correct Response

- The boy-to-girl ratio has increased over time.
- There appears to be no trend in the boy-to-girl ratio from 1940 to 2013.
- There is an initial decrease in the boy-to-girl ratio born but this number appears to level around 1960 and remain constant since then.

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1 / 1 points

points

8.

In what year did we see the most total number of births in the U.S.?

- 1940
- 1957
- 1961
- 2007

Correct Response

- 1991