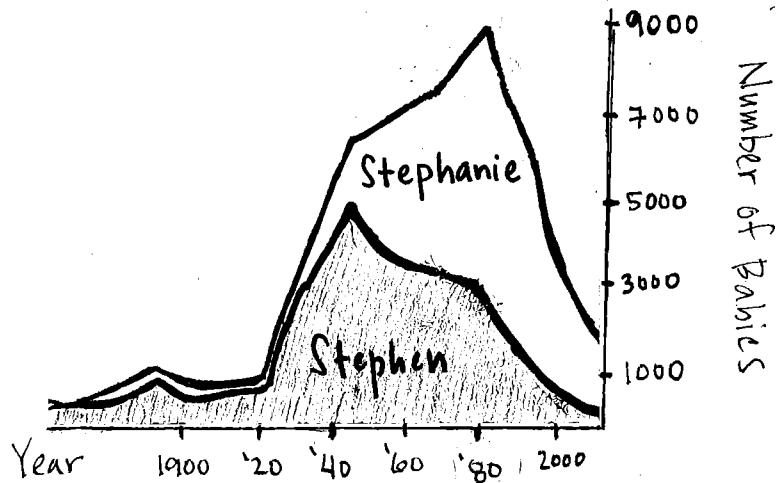


Show all work and answers on a separate paper. Staple this sheet to your answers. Simplify your answers as much as possible.

- (3 pts.) Suppose a group surveys a representative sample of people to see what people believe is the most popular car in America. The sample is asked "Do you think that the Toyota Camry is the most popular car in the US? If not, what is?" Would you believe the results of this study? Why or why not?
- The film section in a newspaper lists 7 five-star films, 12 four-star films, 20 three-star films, 15 two-star films, and 6 one-star films.
 - (3 pts.) Construct a frequency table for the data on the films in the newspaper. Include a column for the relative frequency.
 - (2 pts.) Construct a bar chart displaying your frequency information from part (a).
- The following graph is a **stack plot** that shows the number of babies out of 1 million that were given the name as indicated.

- (1 pt.) In 1910, were more babies named Stephen or Stephanie?
- (3 pts.) In 1980, approximately how many babies out of 1 million were named Stephen?
Approximately how many were named Stephanie?



- (3 pts.) Find the mean, median, and mode from the following list of values: 2 3 3.8 3.9 8.1 3