AP Statistics

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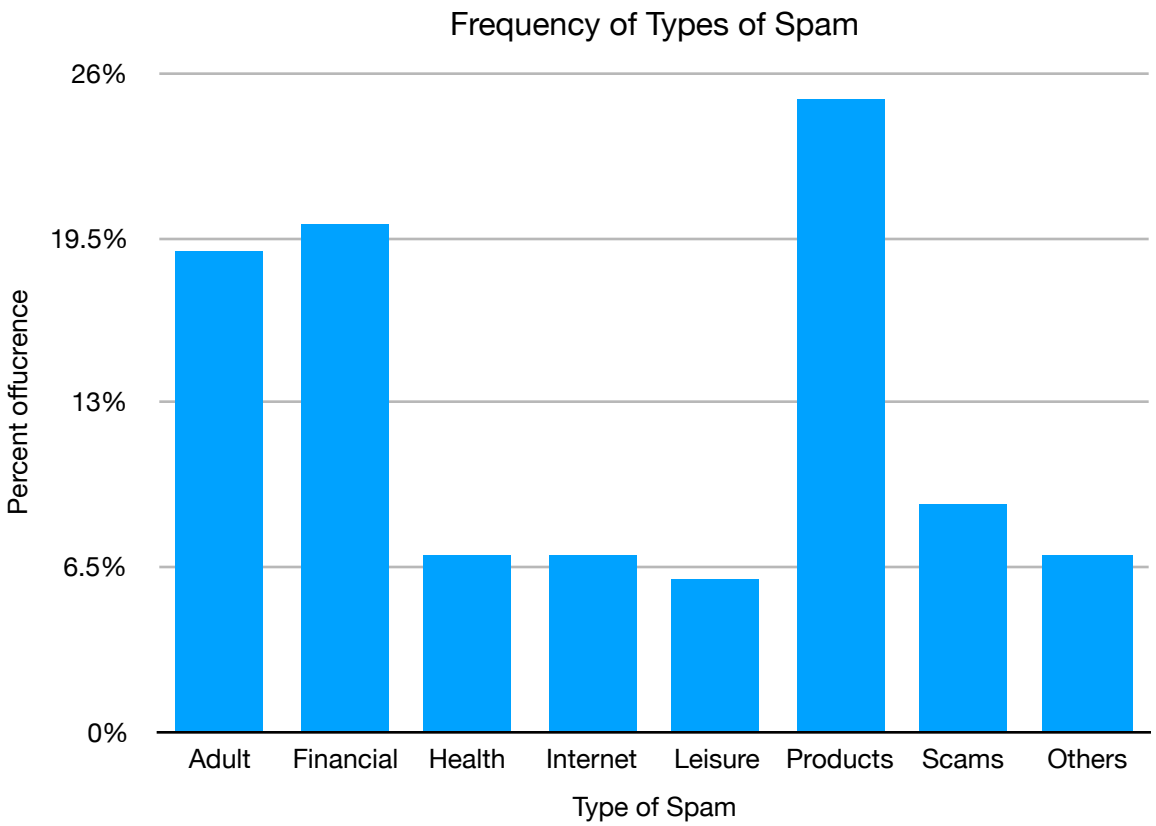
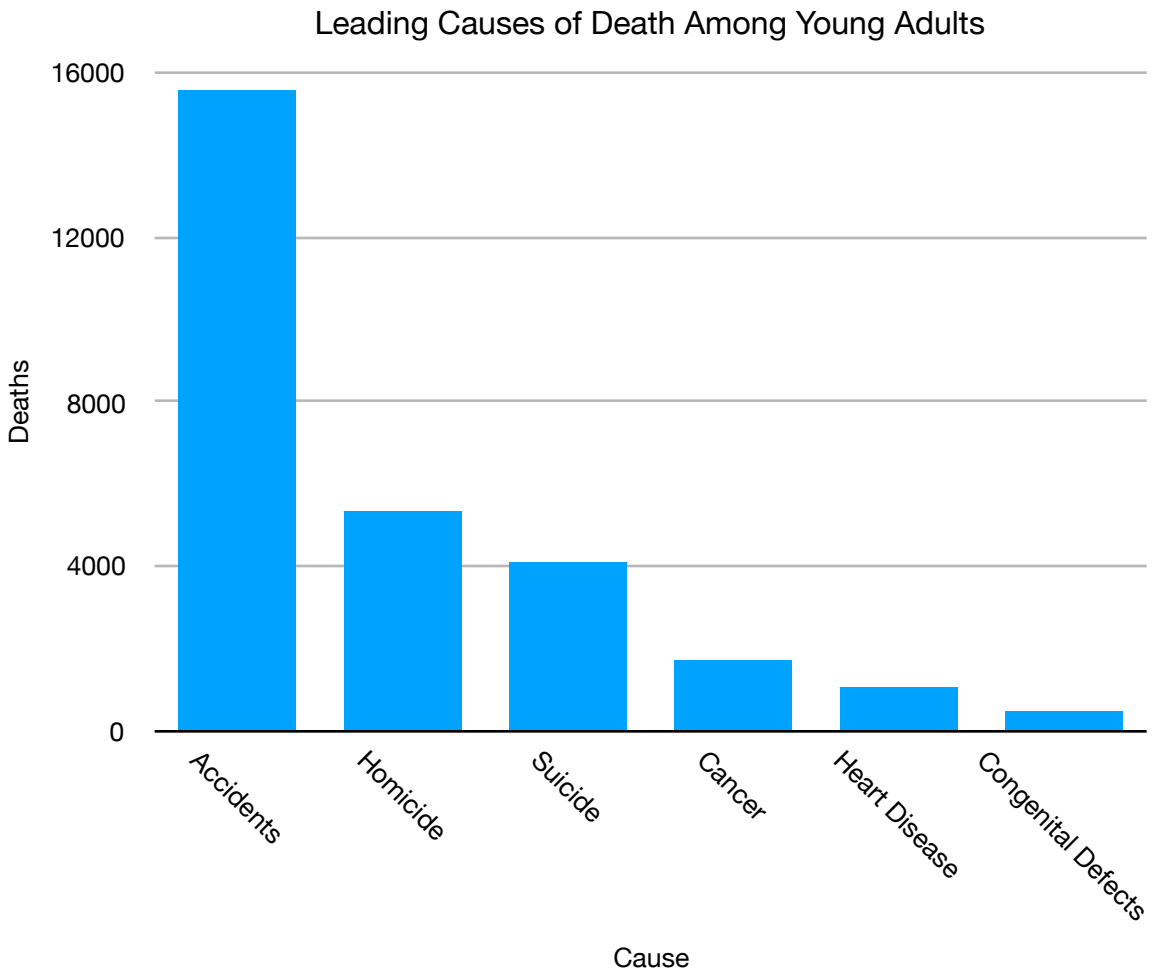
Prerequisite assignment

- Pg. 22-25: 10,12,14,24
  - Question 10
    - Part A
      - $\%_{other} = 100\% - \sum\%_{[all\ but\ other]}$
      - $\%_{other} = 100\% - (19\% + 20\% + 7\% + 7\% + 6\ \% + 25\% + 9\%)$
      - $\mathbf{\%_{other} = 7\%}$
    - Part B



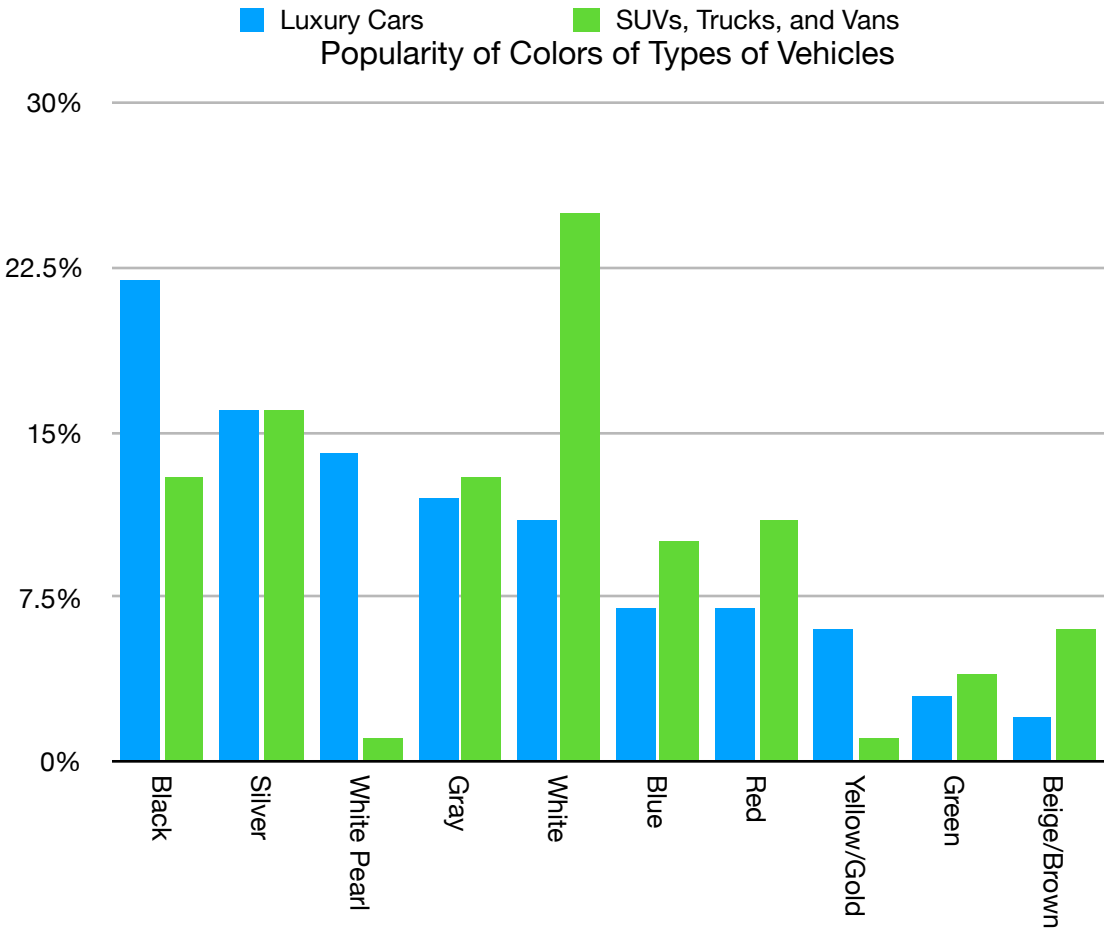
- Part C
  - A pie chart would be appropriate for this data as it all adds up to one-hundred percent, and such a chart would allow easy visualization of the parts of a whole.
- Question 12
  - Part A



  - Part B
    - A pie chart would require knowledge of the number of deaths caused by other causes (i.e. an "Other" data point).
- Question 14

- Approximately 15% study business; approximately 12% study social science.

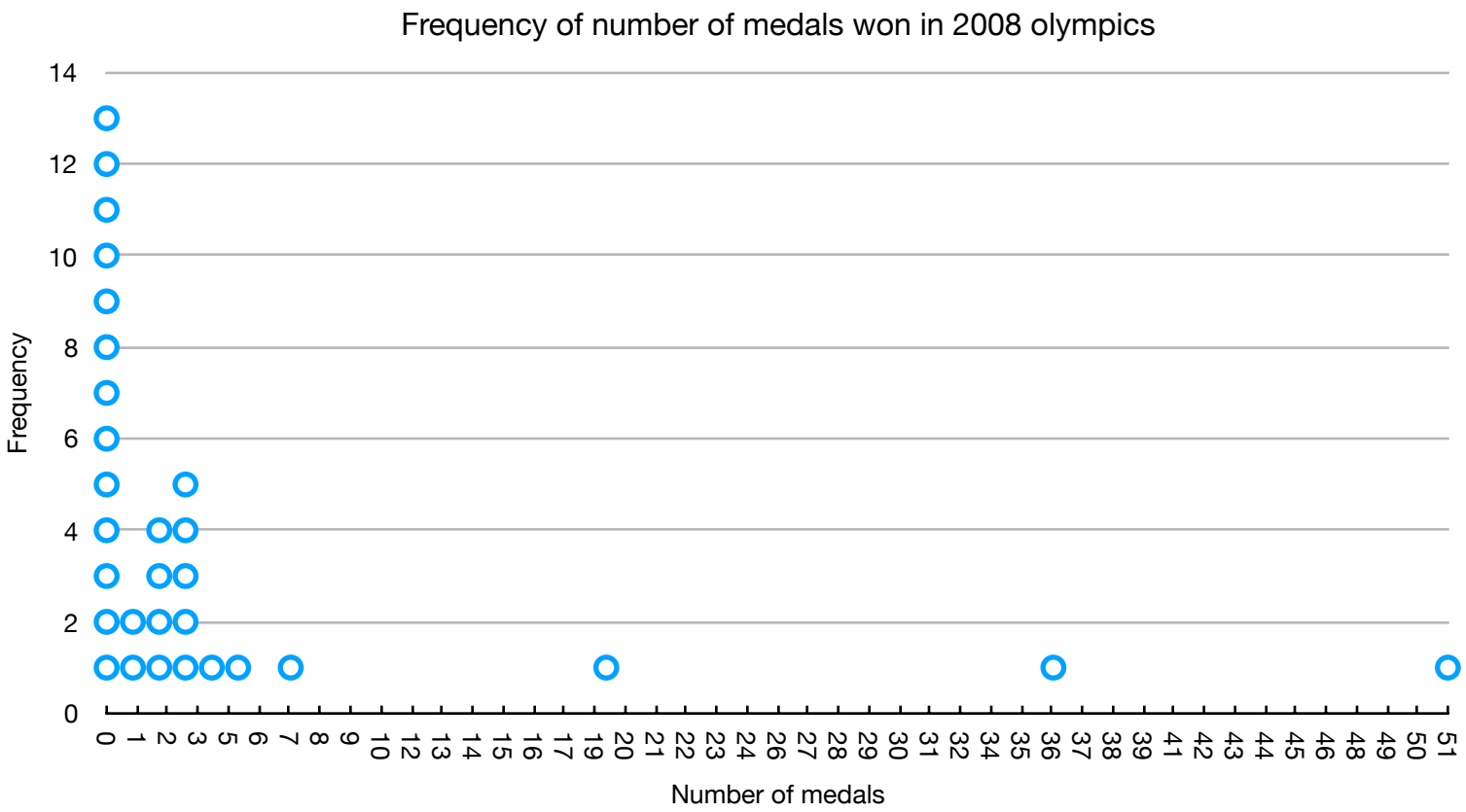
- Question 24
  - Part A



  - Part B
    - Each vehicle type has its own preferences, particularly for favorite color, however, they seem to like colors such as silver, grey, blue, and red about equally, and both dislike green.

- Pg. 42-45 38a,48ab

- Question 38, Part A



  - The pattern is that the majority of countries received 0 medals, however, those that did typically received less than three, with the exception of a few outliers.
- Question 48
  - Part A
  - See next page

- 0|3,9,9
- 1|1,3,4,5,6,7,7,8,8,9
- 2|0,0,0,1,2,3,4,5,5,6,6,8,8,8,8
- 3|2,5,6,9,9
- 4|1,3,4,5,5,7,9
- 5|0,3,4,9
- 6|1
- 7|0
- 8|3,6,6
- 9|3

- Part B
  - 0|3
  - 0|9,9
  - 1|1,3,4
  - 1|5,6,7,7,8,8,9
  - 2|0,0,0,1,2,3,4
  - 2|5,5,6,6,8,8,8,8
  - 3|2
  - 3|5,6,9,9
  - 4|1,3,4
  - 4|5,5,7,9
  - 5|0,3,4
  - 5|9
  - 6|1
  - 7|0
  - 8|3
  - 8|6,6
  - 9|3
  - The second shows the distribution better as it allows to better pinpoint where the peak is and gives us more stems to analyze from.