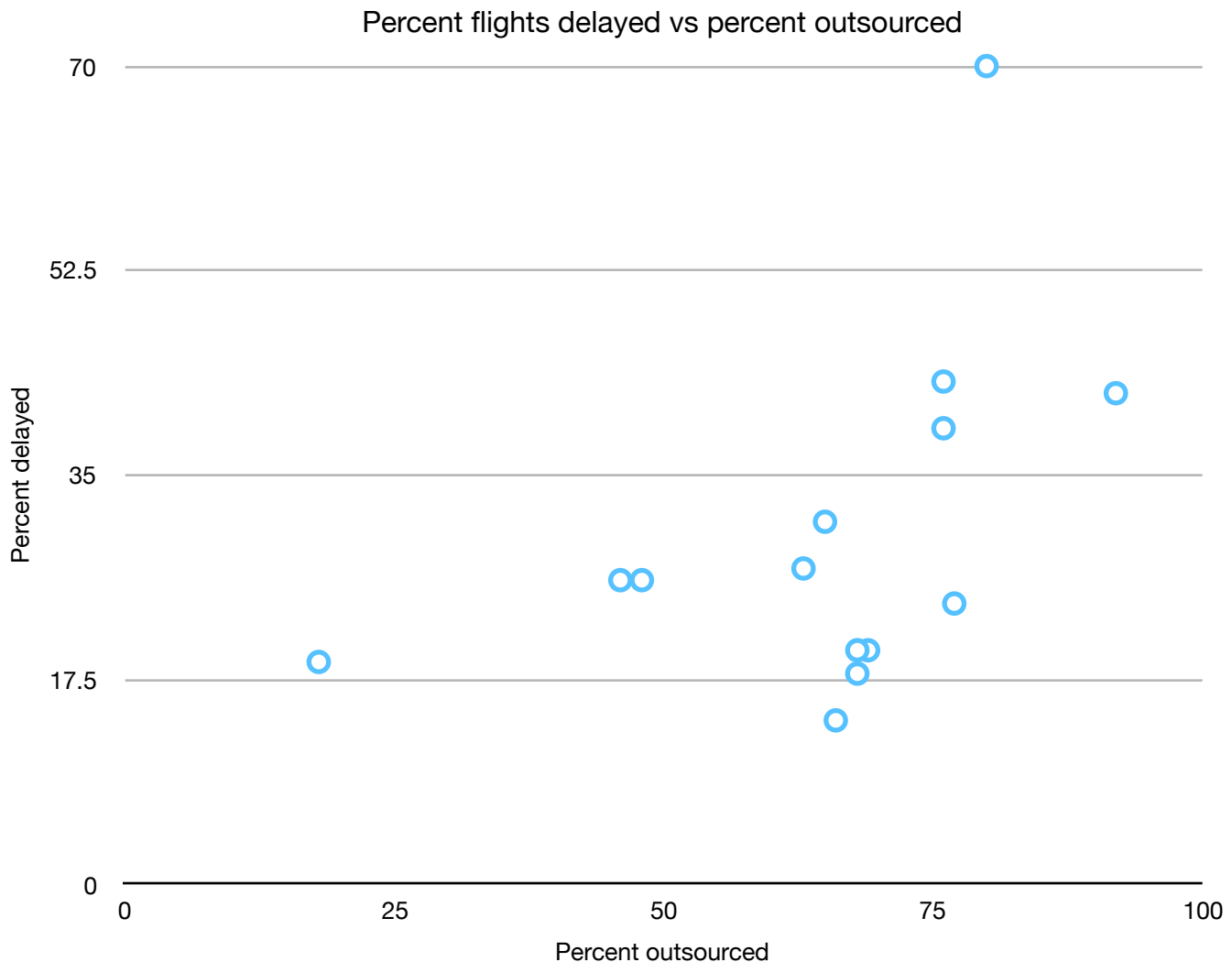# AP Statistics

2019-01-25 Noah Overcash

3.1 Assignment

- Pg. 158-163 1,5,7,13,15,17,18,21,27-32
  - Question 1
    - Explanatory: temperature
    - Response: change in weight
    - Both Quantitative
  - Question 5

Percent flights delayed vs percent outsourced

- Question 7
  - Part A
    - There is a moderately strong curved positive correlation between the variables
  - Part B
    - Hawaiian; outside from this outliner the form is more linear with a stronger correlation, but not very strong.
- Question 13
  - Direction: negative
  - Form: linear
  - Strength: strong
  - Outliers: 47% and 50% at 38 pairs
- Question 15
  - A) 0.9
  - B) 0
  - C) 0.7
  - D) -0.3
  - E) -0.9
- Question 17
  - Part A
    - The polarity (+/-) of the correlation was not stated
  - Part B
    - R cannot exceed 1
  - Part C
    - R does not have units

- Question 18
  - The psychologist shows that there is little no relation between the research productivity and teacher ratings, showing that there is no relation between those two variables.
- Question 21
  - Part A
    - This R value is close to 1, showing that the data points are close to the line of regression.
- Question 27: **A**
- Question 28: **E**
- Question 29: **D**
- Question 30: **B**
- Question 31: **C**
- Question 32: **D**