## 4.8 a. Done on next page

- D. Correlation Coefficient w/ outliers: 0.697

  "O.714

   The outliers increased the correlation, this is probably because they're closer to the best-fit line.
- c. Correlation Coefficient w/ attiers: 0.704

  " w/o ": 0.608

   The outliers decreased correlation because they were in consistent with the root of the data.
- d. Correlation Coefficient w/ outliers: 0.487

  " w/o ": 0.579

   The outliers increased the correlation since
  my were closer to the best-fit line.
- e. Correlation Coefficient w/ artiers: -0.068

  w/o · ":-0.101

   The artiers described the correlation's magnitude,
  meaning that they were closer to the best-RT line.
- f. No, because correlation closs not indicate consation alone. Thus, it is indeterminate whether smoking actually causes lung cancer.
- O. No, because correlation clossit as men causation we cannot state that smalling cures lung concer even if they are inversely correlated.

## Lung Cancer Death vs Cigarette Sales

