

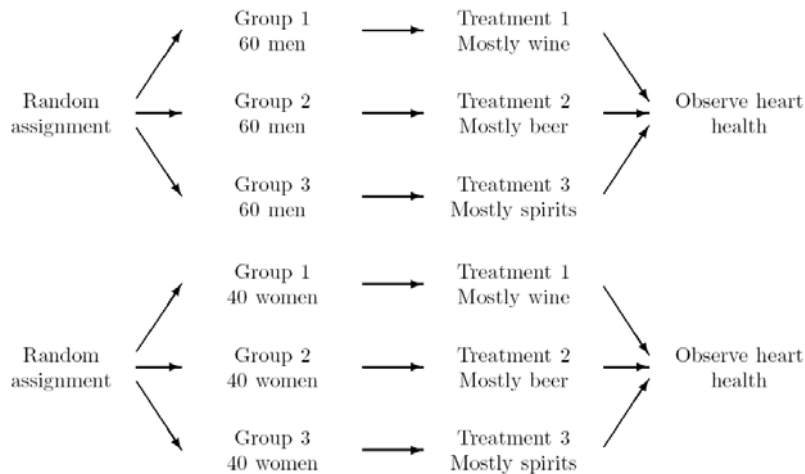
## Week 2 Study Questions - Solutions

1.

8.10. “Randomized” means that patients were randomly assigned to receive either the standard morphine treatment or CR morphine tablets. “Double blind” means that the treatment assigned to a patient was unknown to both the patient and those responsible for assessing the effectiveness of that treatment. (It is not clear how the treatment was hidden from the patients because they would know when they received the morphine.) “Comparative” means researchers are comparing the effectiveness of two treatments, rather than simply trying to assess the effectiveness of one treatment—that is, researchers did not simply change over to CR morphine and try to judge if it was better than the standard treatment had been in the past.

2.

8.38. Divide the men and women into three groups of equal size.



3. (d)

4. There are many possibilities.

Types of quantitative variables: age, weight, grade point average, height

Types of categorical variables: major area of study, eye color, hair color, gender

(If you have questions about other variables, please ask!)

5. False

6. Stem-leaf plot

7. (A)

8. The vertical (y-)axis does not begin at zero.

9. Bar chart: Categorical data, number of bars are pre-determined by the number of categories, there are spaces between bars (categories). Histogram: Quantitative data, number of bars can be adjusted to optimize information, there are no spaces between the bars.