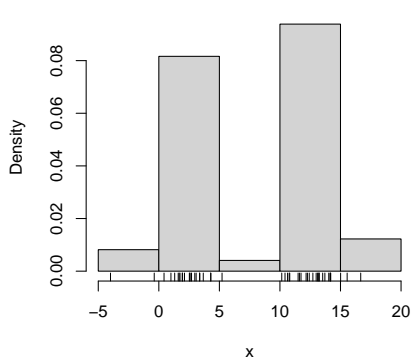
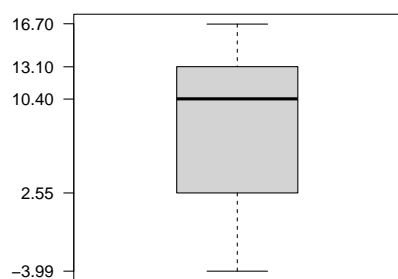


### 1. Problem

For the 49 observations of the variable  $x$  in the data file `boxhist.csv` draw a histogram, a boxplot and a stripchart. Based on the graphics, answer the following questions or check the correct statements, respectively. (*Comment: The tolerance for numeric answers is  $\pm 0.8$ , the true/false statements are either about correct or clearly wrong.*)

- (a) The distribution is unimodal. / The distribution is *not* unimodal.
- (b) The distribution is symmetric. / The distribution is right-skewed. / The distribution is left-skewed.
- (c) The boxplot shows outliers. / The boxplot shows *no* outliers.
- (d) A quarter of the observations is smaller than which value?
- (e) A quarter of the observations is greater than which value?
- (f) Half of the observations are smaller than which value?

### Solution



- (a) False / True
- (b) True / False / False
- (c) False / True
- (d) 2.55
- (e) 13.1
- (f) 10.4