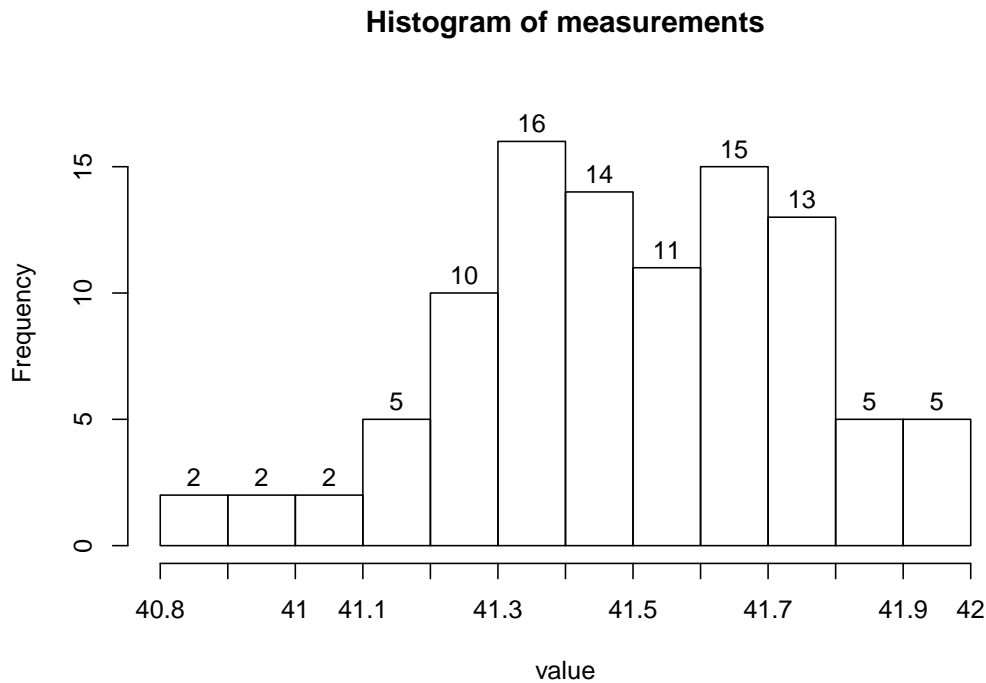


1. Problem

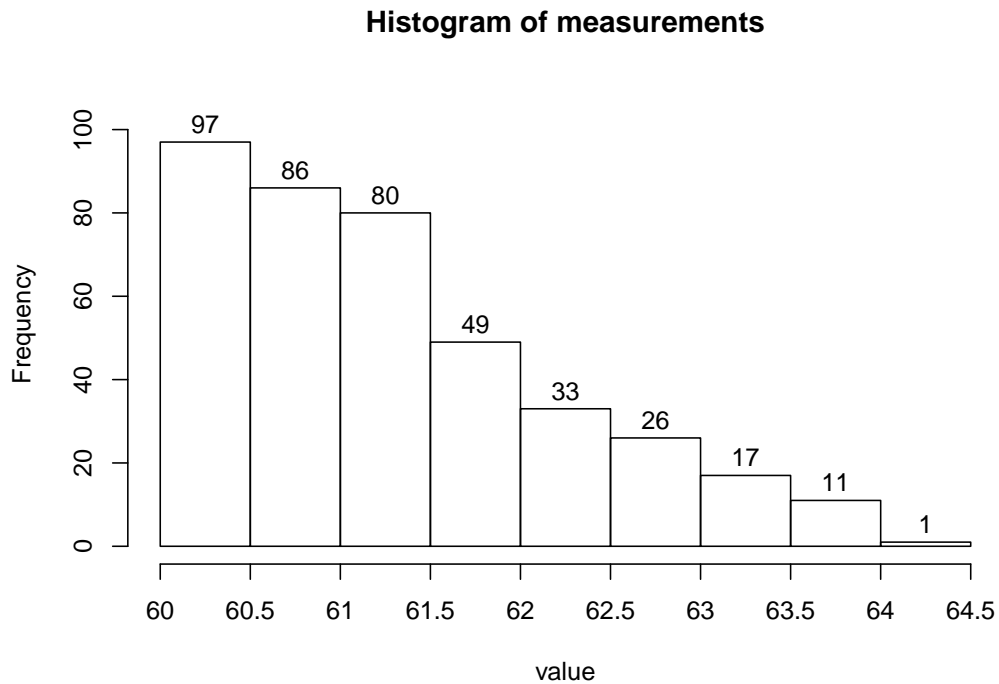
A continuous random variable was measured 100 times. The histogram is shown below.



- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 41.1?
- (d) What percent of the measurements are less than 40.9?
- (e) Of the measurements less than 41.1, what percent are less than 40.9?
- (f) Estimate the value of the 11th percentile.

2. Problem

A continuous random variable was measured 400 times. The histogram is shown below.



- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 62.5?
- (d) What percent of the measurements are greater than 64?
- (e) Of the measurements greater than 62.5, what percent are greater than 64?
- (f) Estimate the value of the 97th percentile.