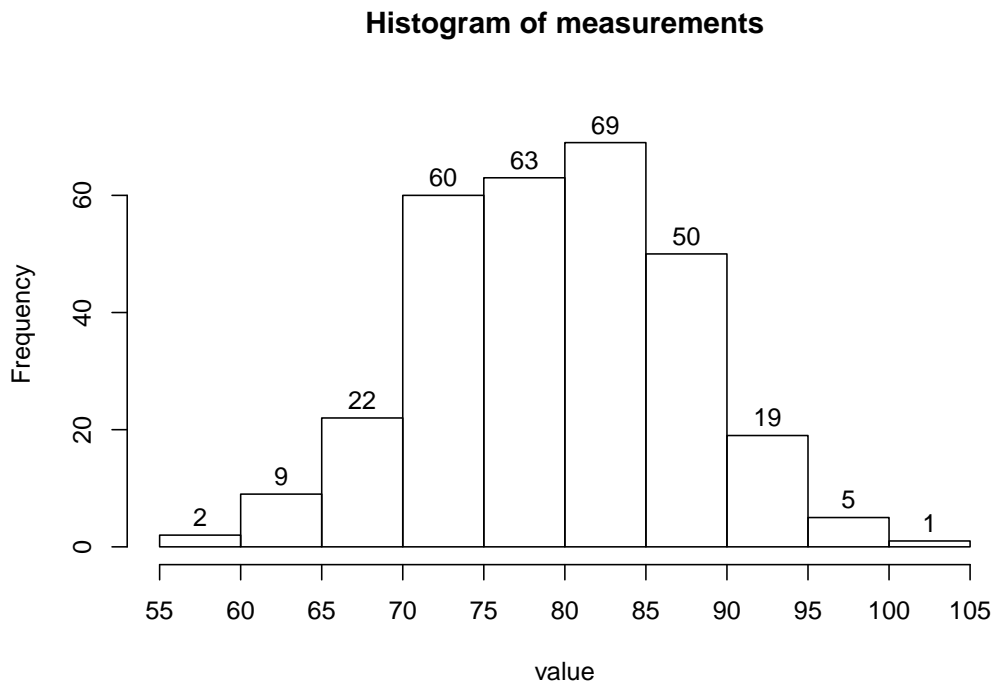


1. Problem

A continuous random variable was measured 300 times. The histogram is shown below.



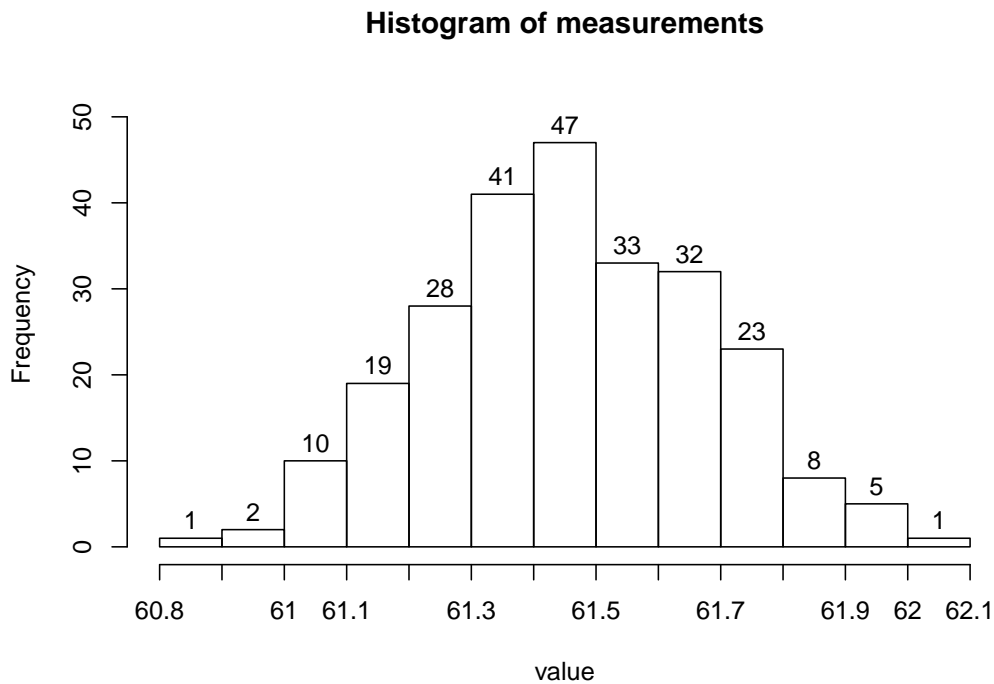
- Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- Estimate the range of the distribution (range = max-min).
- What percent of the measurements are greater than 80?
- What percent of the measurements are less than 100?
- Of the measurements greater than 80, what percent are less than 100?
- Estimate the value of the 75th percentile.

Solution

- symmetric mound
- 50
- 48%
- 99.67%
- 99.31%
- 85

2. Problem

A continuous random variable was measured 250 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 61.7?
- (d) What percent of the measurements are less than 61.8?
- (e) Of the measurements greater than 61.7, what percent are less than 61.8?
- (f) Estimate the value of the 0.4th percentile.

Solution

- (a) symmetric mound
- (b) 1.3
- (c) 14.8%
- (d) 94.4%
- (e) 62.16%
- (f) 60.9