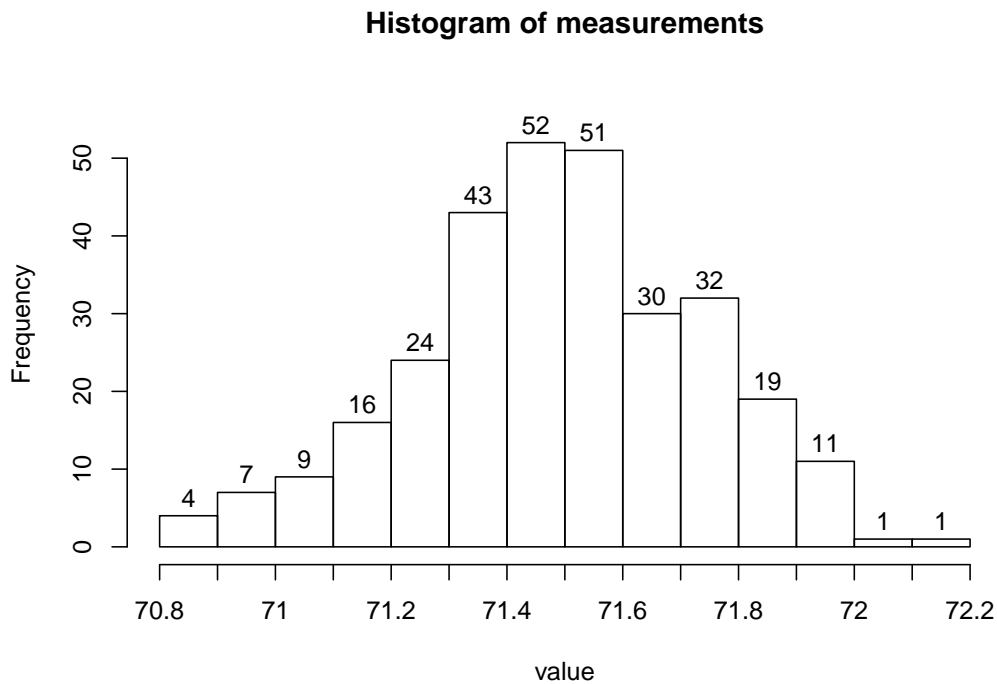


1. Problem

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



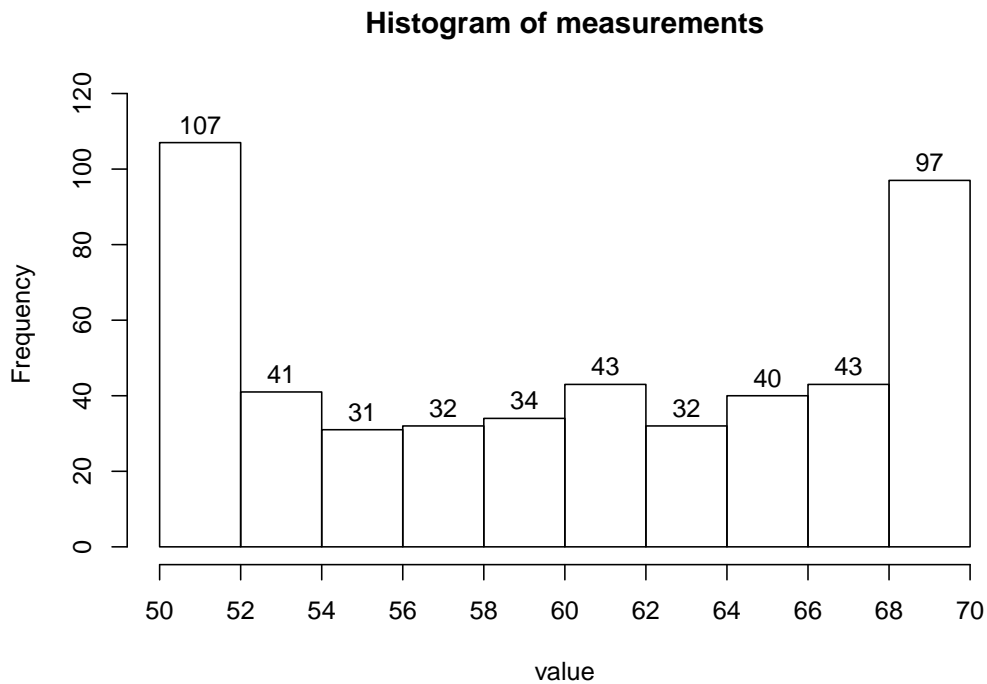
- Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- Estimate the range of the distribution (range = max-min).
- What percent of the measurements are greater than 71.2?
- What percent of the measurements are greater than 71.7?
- Of the measurements greater than 71.2, what percent are greater than 71.7?
- Estimate the value of the 99.33th percentile.

Solution

- symmetric mound
- 1.4
- 88%
- 21.33%
- 24.24%
- 72

2. Problem

A continuous random variable was measured 500 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 58?
- (d) What percent of the measurements are greater than 64?
- (e) Of the measurements greater than 58, what percent are greater than 64?
- (f) Estimate the value of the 49th percentile.

Solution

- (a) bimodal
- (b) 20
- (c) 57.8%
- (d) 36%
- (e) 62.28%
- (f) 60