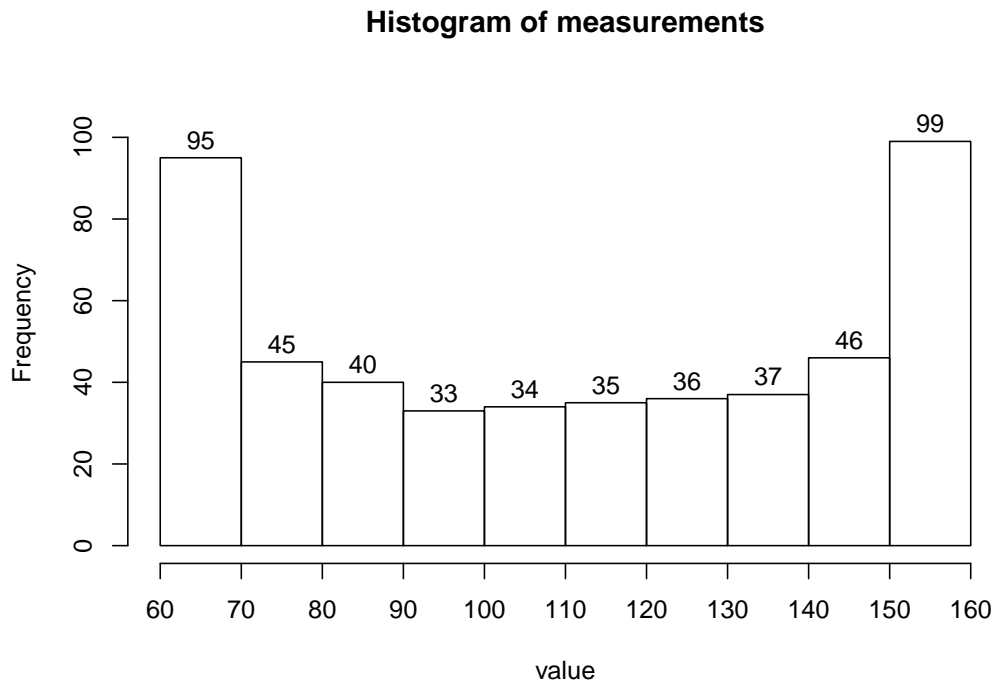


1. Problem

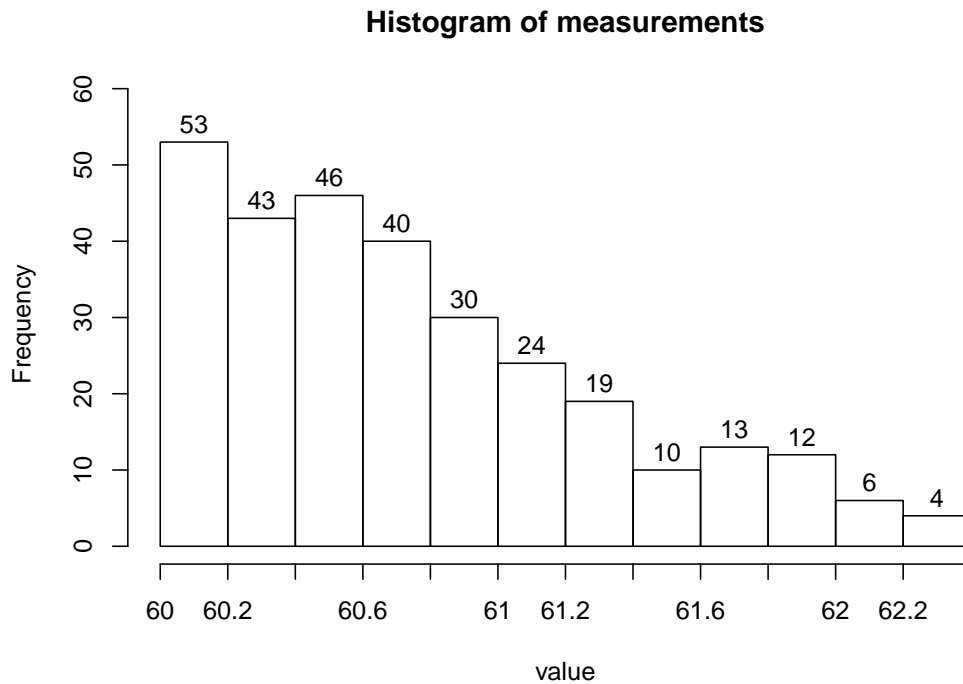
A continuous random variable was measured 500 times. The histogram is shown below.



- (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 130?
- (d) What percent of the measurements are greater than 150?
- (e) Of the measurements greater than 130, what percent are greater than 150?
- (f) Estimate the value of the 71th percentile.

2. Problem

A continuous random variable was measured 300 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 61.2?
- (d) What percent of the measurements are greater than 61.6?
- (e) Of the measurements greater than 61.2, what percent are greater than 61.6?
- (f) Estimate the value of the 32th percentile.