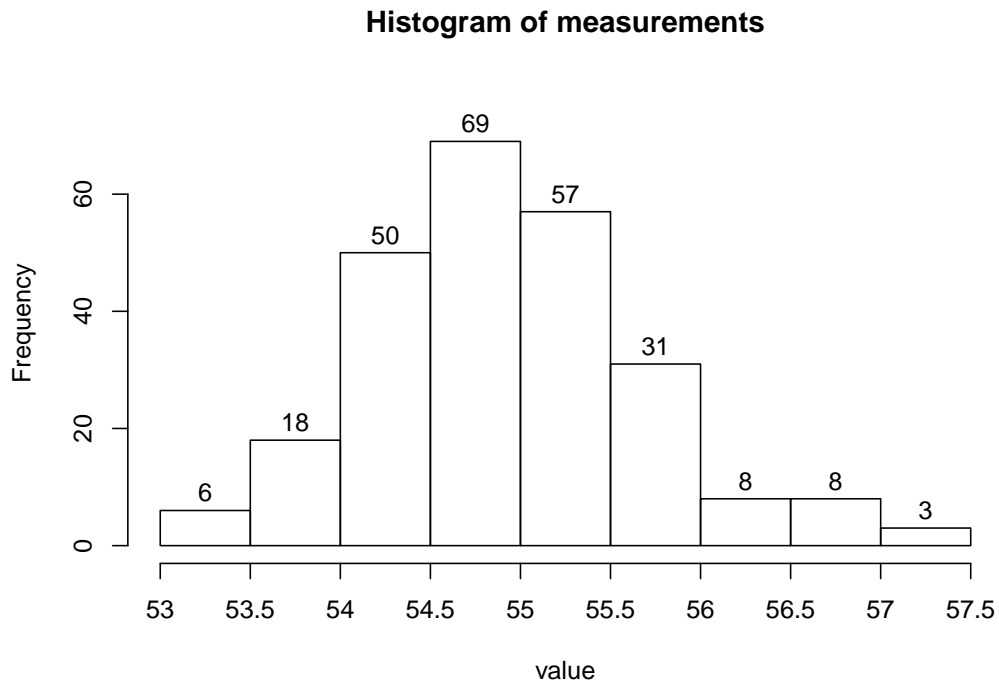


1. Problem

A continuous random variable was measured 250 times. The histogram is shown below.

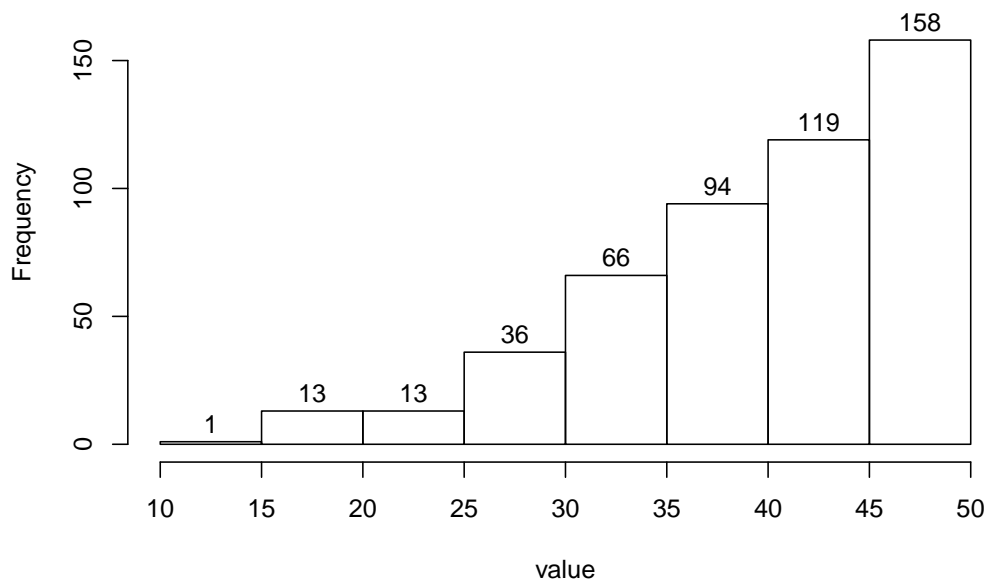


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 54.5?
- (d) What percent of the measurements are less than 55.5?
- (e) Of the measurements greater than 54.5, what percent are less than 55.5?
- (f) Estimate the value of the 95.6th percentile.

2. Problem

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

Histogram of measurements



- (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 30?
- (d) What percent of the measurements are greater than 40?
- (e) Of the measurements greater than 30, what percent are greater than 40?
- (f) Estimate the value of the 25.8th percentile.