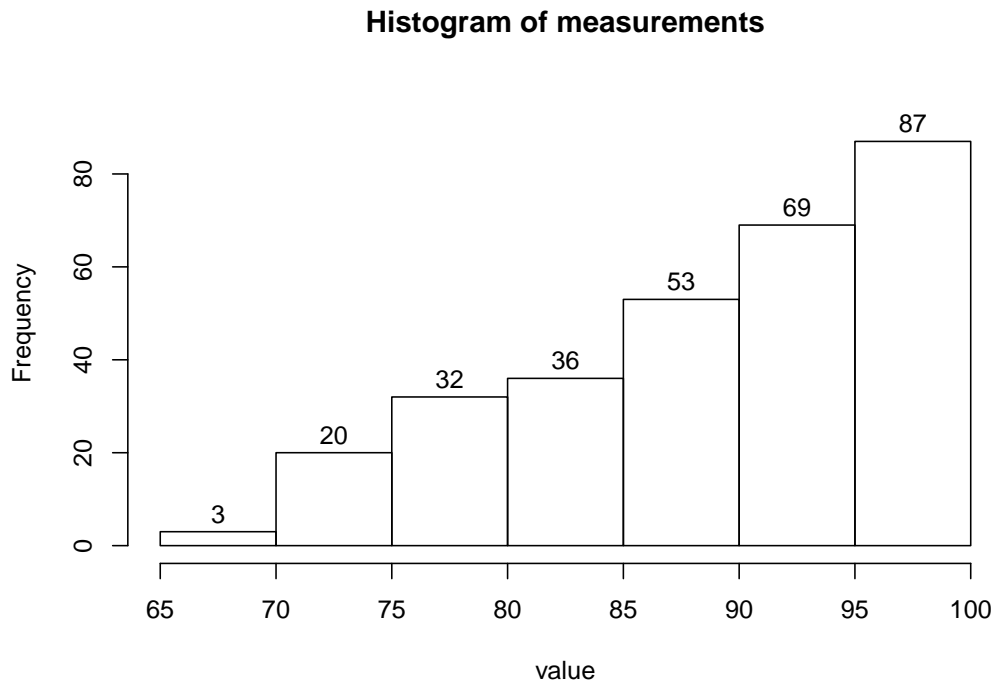


1. Problem

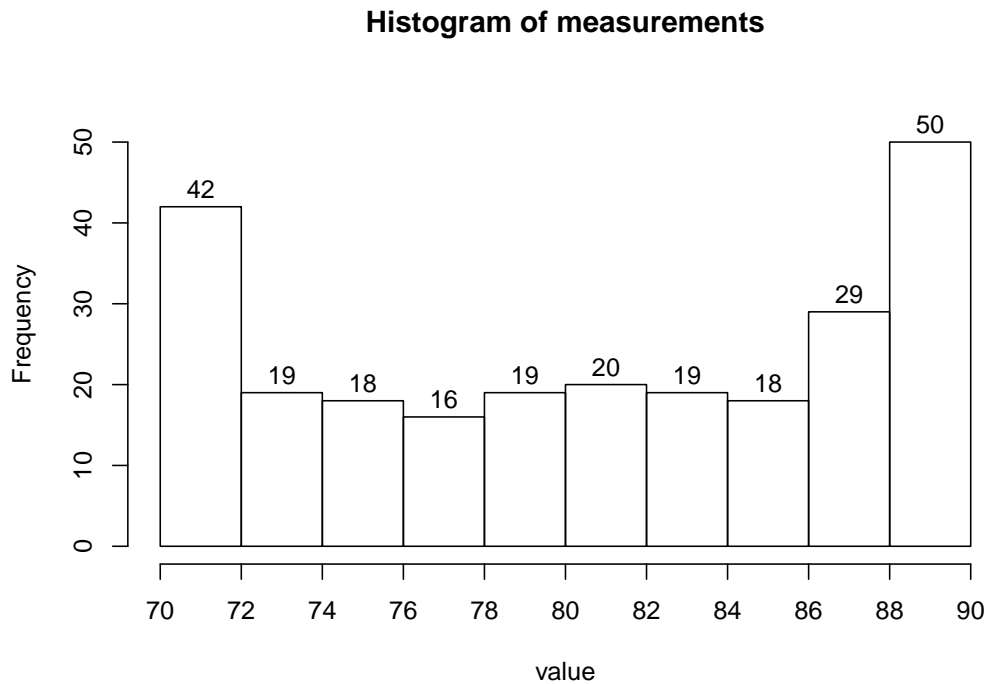
A continuous random variable was measured 300 times. The histogram is shown below.



- (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 less than 75?
- (d) What percent of the measurements are less than 65?
- (e) Of the measurements less than 75, what percent are less than 65?
- (f) Estimate the value of the 30.33th percentile.

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 76?
- (d) What percent of the measurements are less than 84?
- (e) Of the measurements greater than 76, what percent are less than 84?
- (f) Estimate the value of the 68.4th percentile.