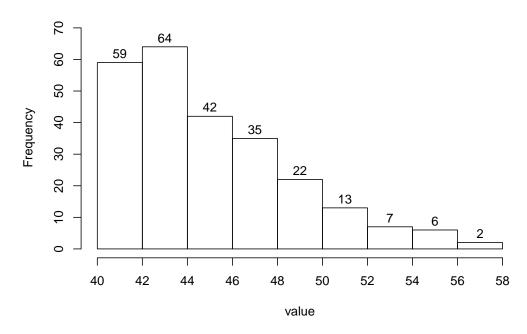
1. Problem

A continuous random variable was measured 250 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 44?
- (d) What percent of the measurements are less than 48?
- (e) Of the measurements greater than 44, what percent are less than 48?
- (f) Estimate the value of the 96.8th percentile.

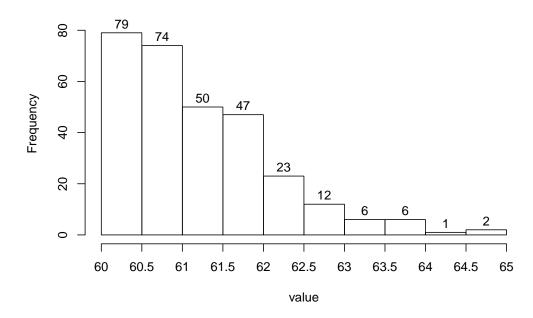
Solution

- (a) skew right
- (b) 18
- (c) 50.8%
- (d) 80%
- (e) 60.63%
- (f) 54

2. Problem

A continuous random variable was measured 300 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 63?
- (d) What percent of the measurements are greater than 64?
- (e) Of the measurements greater than 63, what percent are greater than 64?
- (f) Estimate the value of the 51th percentile.

Solution

- (a) skew right
- (b) 5
- (c) 5%
- (d) 1%
- (e) 20%
- (f) 61