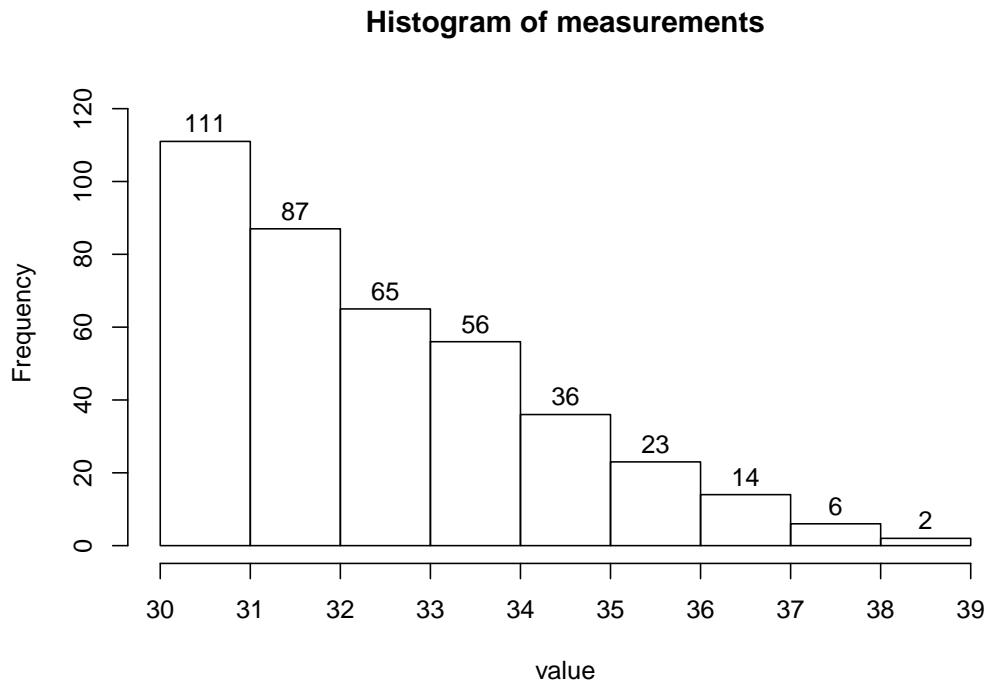


1. Problem

A continuous random variable was measured 400 times. The histogram is shown below.

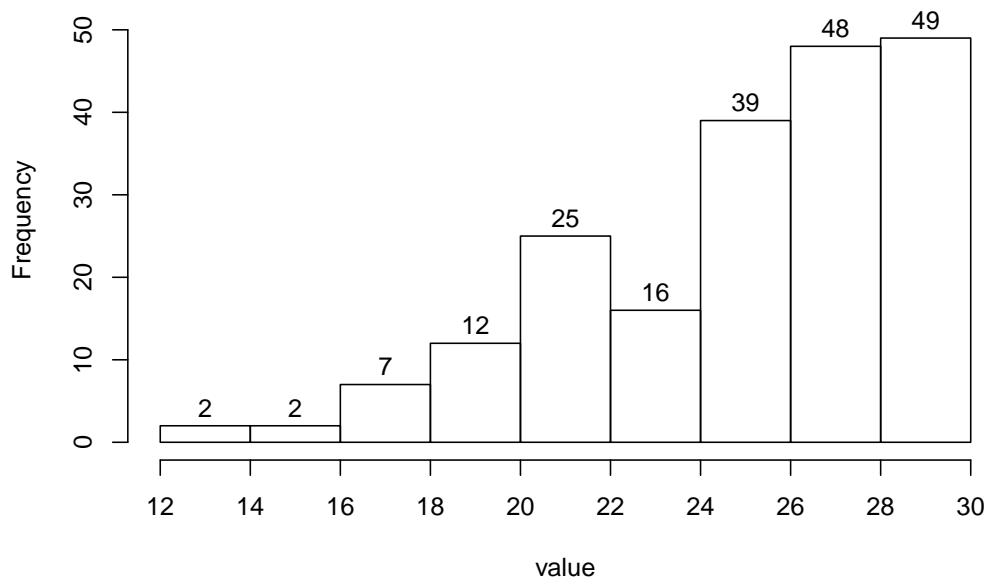


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 35?
- (d) What percent of the measurements are less than 37?
- (e) Of the measurements greater than 35, what percent are less than 37?
- (f) Estimate the value of the 79.75th percentile.

2. Problem

A continuous random variable was measured 200 times. The histogram is shown below.

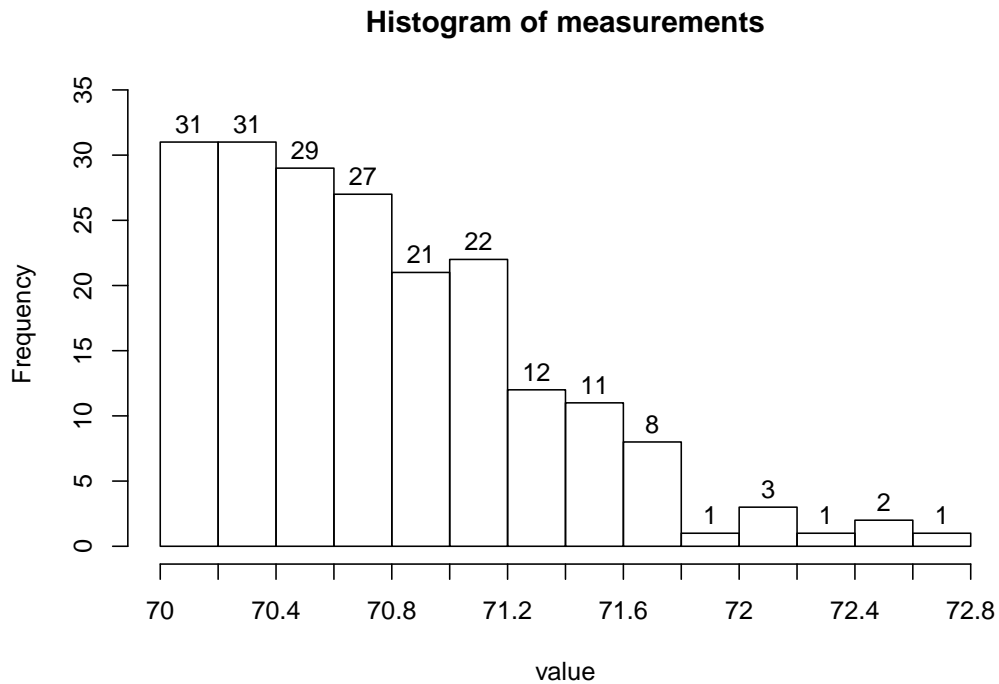
Histogram of measurements



- (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 less than 24?
- (d) What percent of the measurements are less than 14?
- (e) Of the measurements less than 24, what percent are less than 14?
- (f) Estimate the value of the 5.5th percentile.

3. Problem

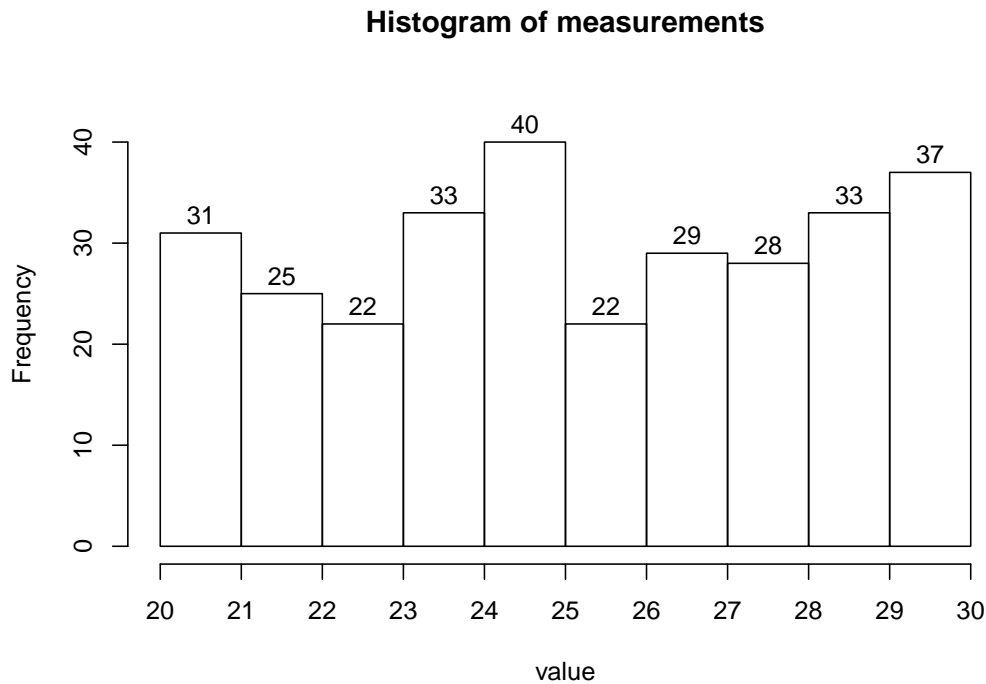
A continuous random variable was measured 200 times. The histogram is shown below.



- (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 71.4?
- (d) What percent of the measurements are greater than 72?
- (e) Of the measurements greater than 71.4, what percent are greater than 72?
- (f) Estimate the value of the 80.5th percentile.

4. Problem

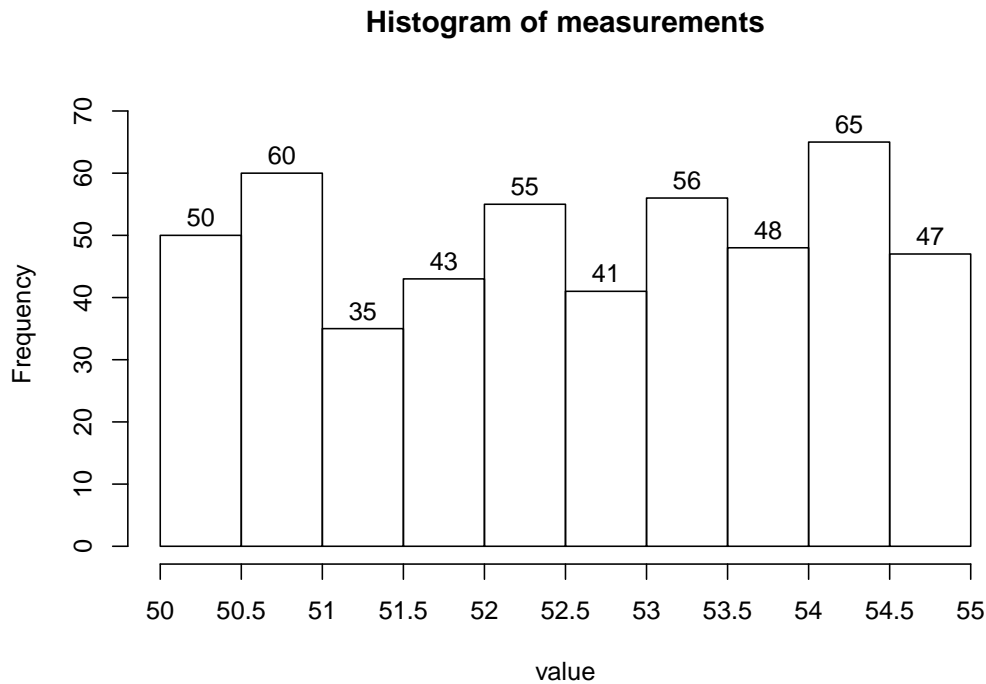
A continuous random variable was measured 300 times. The histogram is shown below.



- (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 27?
- (d) What percent of the measurements are less than 28?
- (e) Of the measurements greater than 27, what percent are less than 28?
- (f) Estimate the value of the 37th percentile.

5. Problem

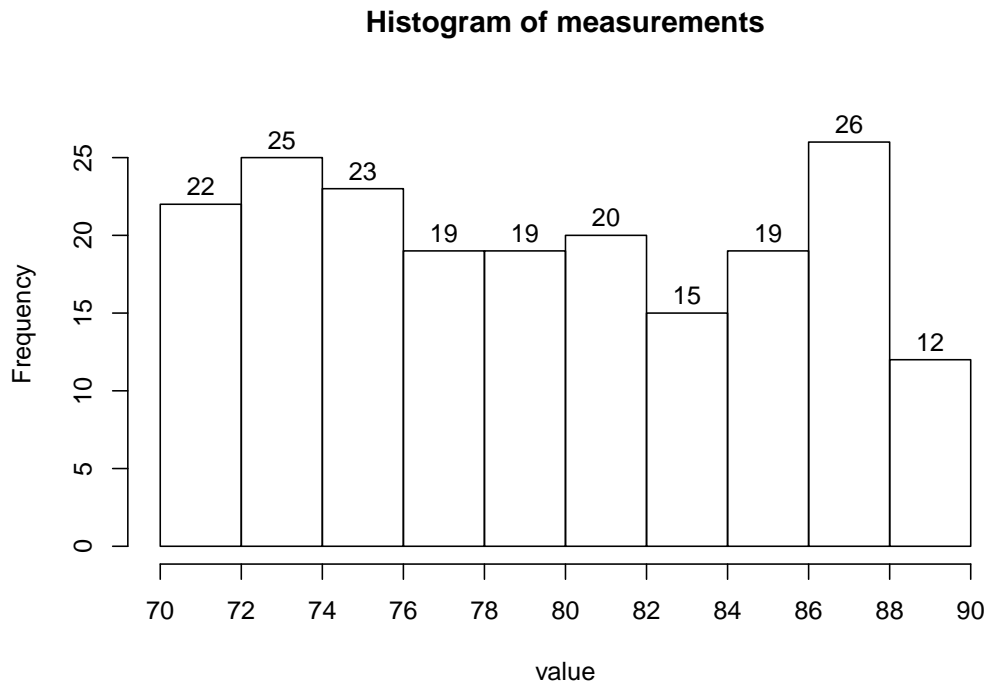
A continuous random variable was measured 500 times. The histogram is shown below.



- (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 52?
- (d) What percent of the measurements are less than 54?
- (e) Of the measurements greater than 52, what percent are less than 54?
- (f) Estimate the value of the 68th percentile.

6. Problem

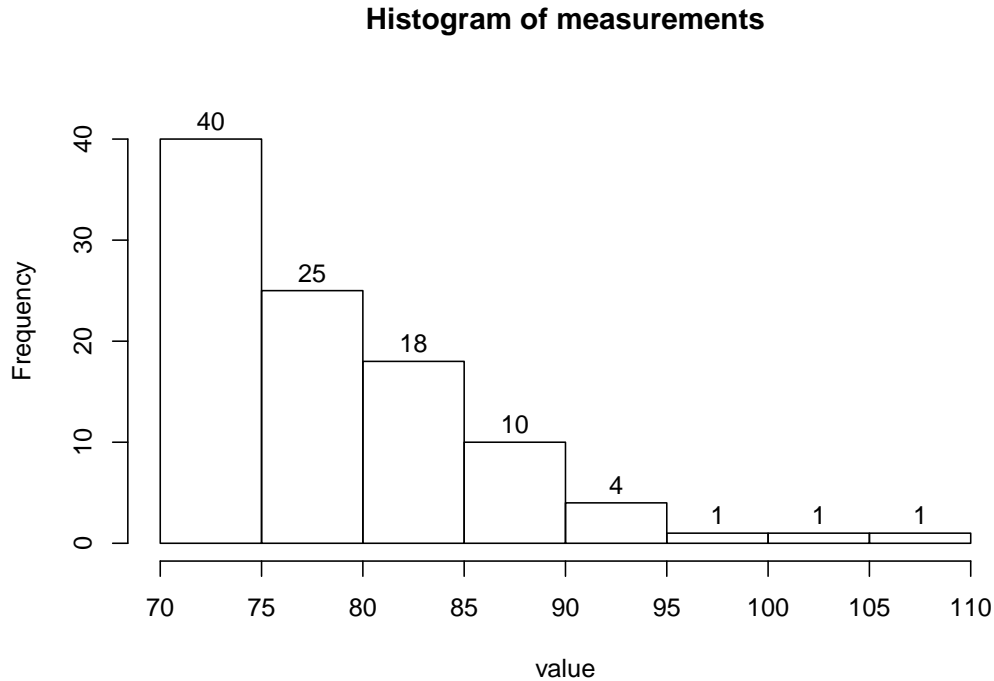
A continuous random variable was measured 200 times. The histogram is shown below.



- (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 74?
- (d) What percent of the measurements are less than 88?
- (e) Of the measurements greater than 74, what percent are less than 88?
- (f) Estimate the value of the 11th percentile.

7. Problem

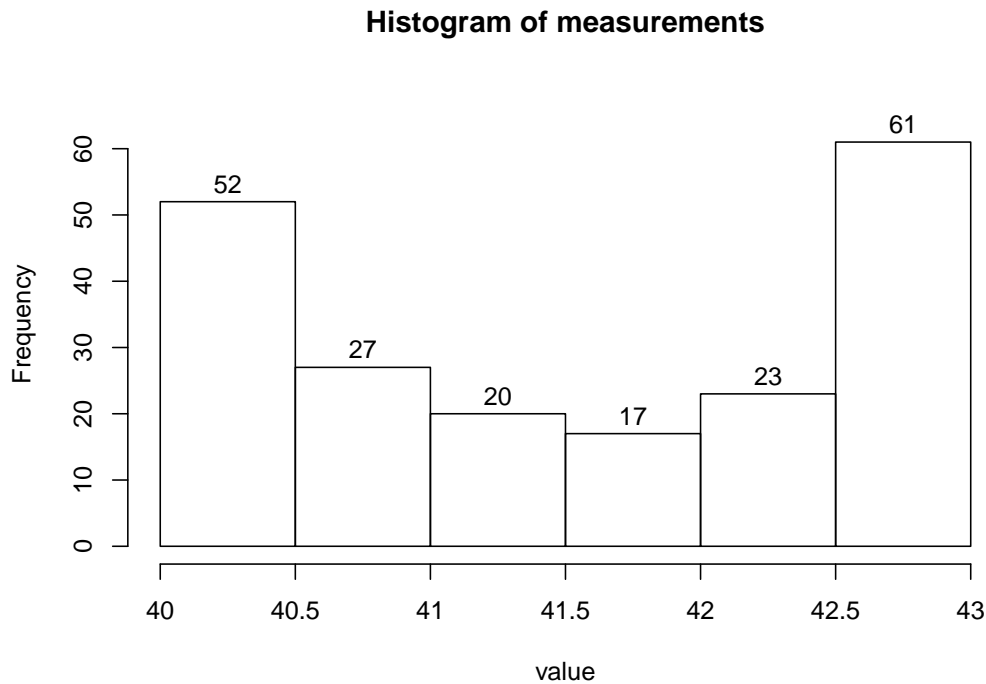
A continuous random variable was measured 100 times. The histogram is shown below.



- (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 85?
- (d) What percent of the measurements are greater than 100?
- (e) Of the measurements greater than 85, what percent are greater than 100?
- (f) Estimate the value of the 40th percentile.

8. Problem

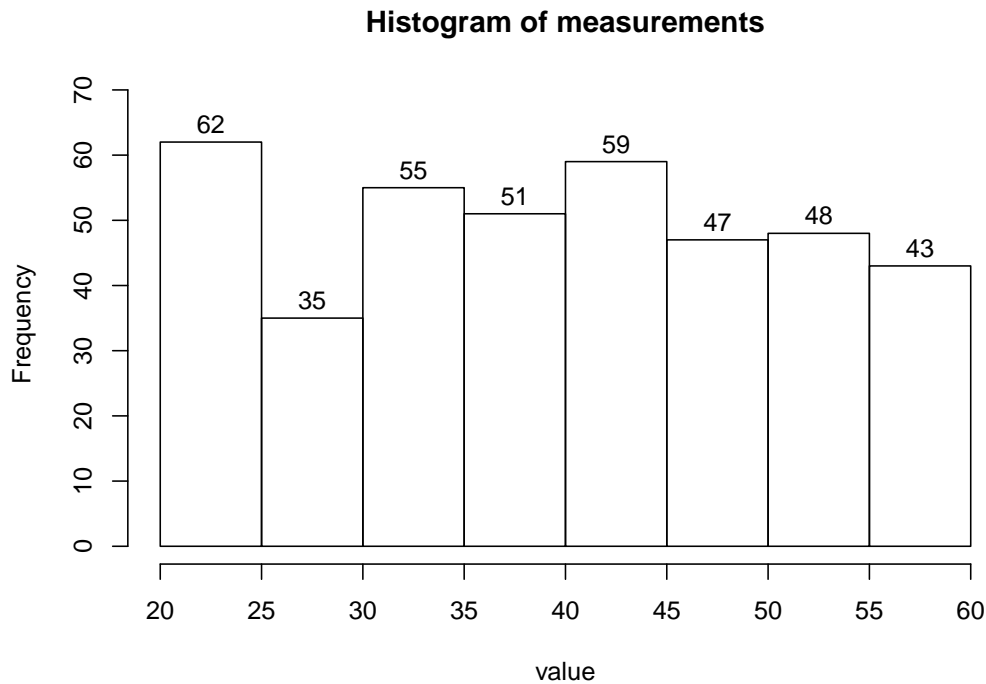
A continuous random variable was measured 200 times. The histogram is shown below.



- (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 41?
- (d) What percent of the measurements are greater than 42.5?
- (e) Of the measurements greater than 41, what percent are greater than 42.5?
- (f) Estimate the value of the 26th percentile.

9. Problem

A continuous random variable was measured 400 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 30?
- (d) What percent of the measurements are less than 25?
- (e) Of the measurements less than 30, what percent are less than 25?
- (f) Estimate the value of the 77.25th percentile.

1. (a) skew right
(b) 9
(c) 11.25%
(d) 98%
(e) 82.22%
(f) 34
2. (a) skew left
(b) 18
(c) 32%
(d) 1%
(e) 3.125%
(f) 18
3. (a) skew right
(b) 2.8
(c) 13.5%
(d) 3.5%
(e) 25.93%
(f) 71.2
4. (a) uniform
(b) 10
(c) 32.67%
(d) 76.67%
(e) 28.57%
(f) 24
5. (a) uniform
(b) 5
(c) 62.4%
- (d) 77.6%
(e) 64.1%
(f) 53.5
6. (a) uniform
(b) 20
(c) 76.5%
(d) 94%
(e) 92.16%
(f) 72
7. (a) skew right
(b) 40
(c) 17%
(d) 2%
(e) 11.76%
(f) 75
8. (a) bimodal
(b) 3
(c) 60.5%
(d) 30.5%
(e) 50.41%
(f) 40.5
9. (a) uniform
(b) 40
(c) 24.25%
(d) 15.5%
(e) 63.92%
(f) 50