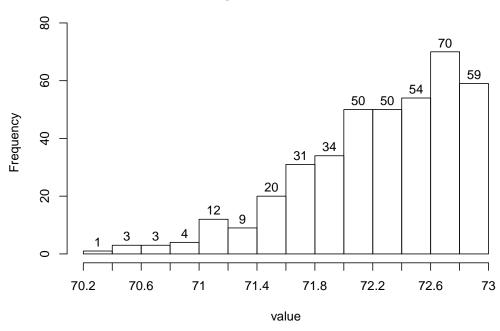
A continuous random variable was measured 400 times. The histogram is shown below.

Histogram of measurements

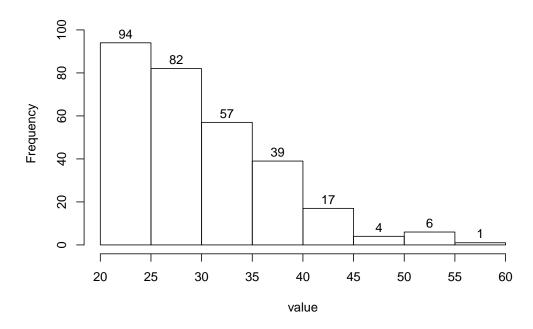


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 72.2?
- (d) What percent of the measurements are greater than 72?
- (e) Of the measurements less than 72.2, what percent are greater than 72?
- (f) Estimate the value of the 67.75th percentile.

- (a) skew left
- (b) 2.8
- (c) 41.75%
- (d) 70.75%
- (e) 29.94%
- (f) 72.6

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

Histogram of measurements

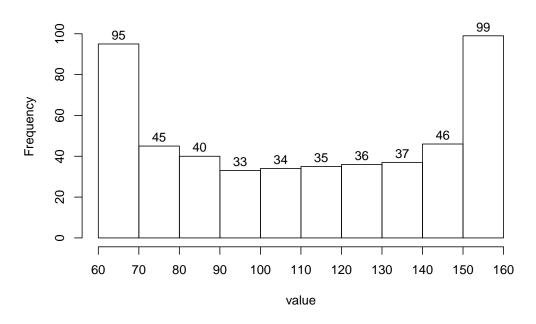


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 30?
- (d) What percent of the measurements are less than 55?
- (e) Of the measurements greater than 30, what percent are less than 55?
- (f) Estimate the value of the 96.33th percentile.

- (a) skew right
- (b) 40
- (c) 41.33%
- (d) 99.67%
- (e) 99.19%
- (f) 45

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

Histogram of measurements

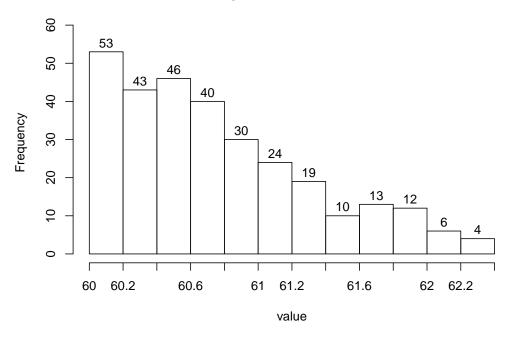


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 130?
- (d) What percent of the measurements are greater than 150?
- (e) Of the measurements greater than 130, what percent are greater than 150?
- (f) Estimate the value of the 71th percentile.

- (a) bimodal
- (b) 100
- (c) 36.4%
- (d) 19.8%
- (e) 54.4%
- (f) 140

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

Histogram of measurements

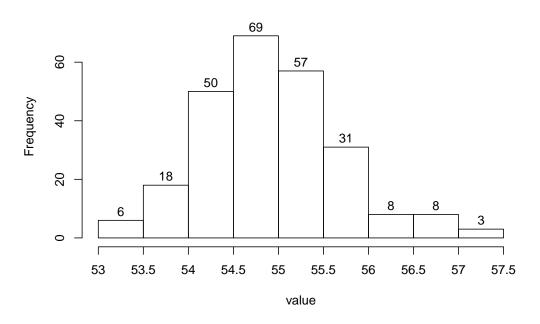


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 61.2?
- (d) What percent of the measurements are greater than 61.6?
- (e) Of the measurements greater than 61.2, what percent are greater than 61.6?
- (f) Estimate the value of the 32th percentile.

- (a) skew right
- (b) 2.4
- (c) 21.33%
- (d) 11.67%
- (e) 54.69%
- (f) 60.4

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

Histogram of measurements

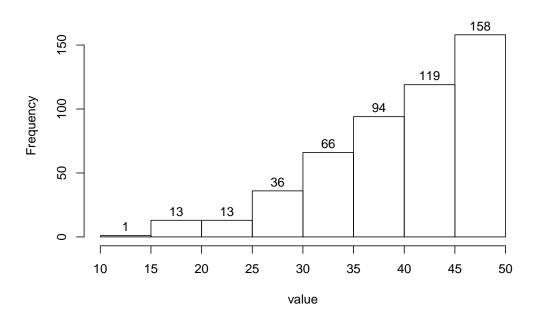


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 54.5?
- (d) What percent of the measurements are less than 55.5?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

- (a) symmetric mound
- (b) 4.5
- (c) 70.4%
- (d) 80%
- (e) 71.59%
- (f) 56.5

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

Histogram of measurements

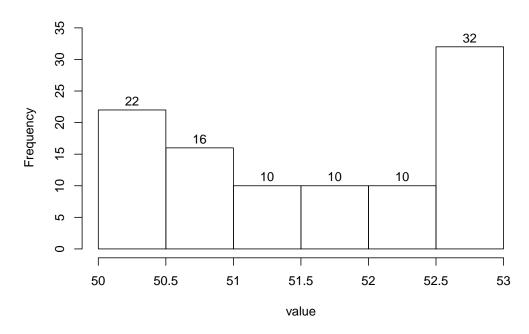


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 30?
- (d) What percent of the measurements are greater than 40?
- (e) Of the measurements greater than 30, what percent are greater than 40?
- (f) Estimate the value of the 25.8th percentile.

- (a) skew left
- (b) 40
- (c) 87.4%
- (d) 55.4%
- (e) 63.39%
- (f) 35

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

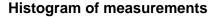
Histogram of measurements

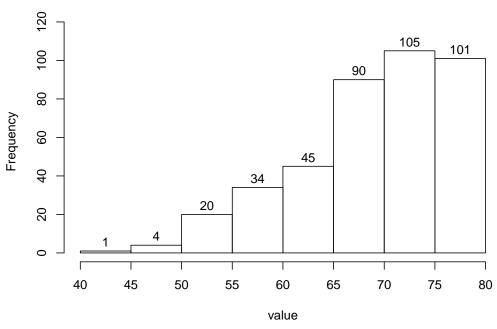


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 51?
- (d) What percent of the measurements are greater than 51.5?
- (e) Of the measurements greater than 51, what percent are greater than 51.5?
- (f) Estimate the value of the 58th percentile.

- (a) bimodal
- (b) 3
- (c) 62%
- (d) 52%
- (e) 83.87%
- (f) 52

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



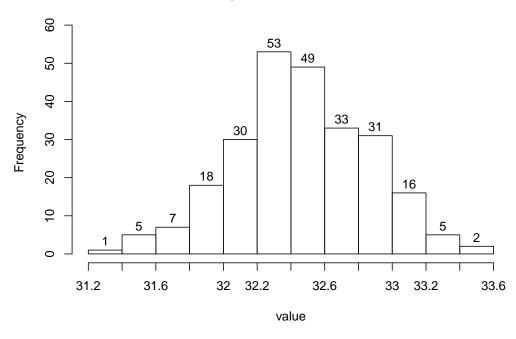


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 65?
- (d) What percent of the measurements are greater than 75?
- (e) Of the measurements greater than 65, what percent are greater than 75?
- (f) Estimate the value of the 14.75th percentile.

- (a) skew left
- (b) 40
- (c) 74%
- (d) 25.25%
- (e) 34.12%
- (f) 60

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

Histogram of measurements

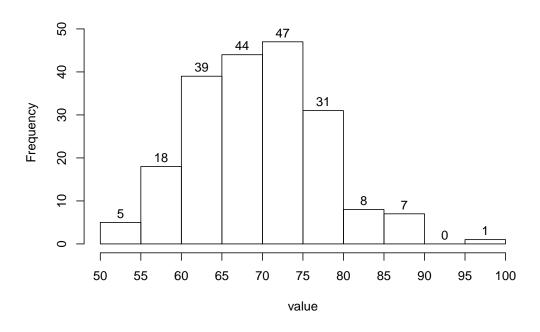


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 32?
- (d) What percent of the measurements are greater than 32.8?
- (e) Of the measurements greater than 32, what percent are greater than 32.8?
- (f) Estimate the value of the 45.6th percentile.

- (a) symmetric mound
- (b) 2.4
- (c) 87.6%
- (d) 21.6%
- (e) 24.66%
- (f) 32.4

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

Histogram of measurements

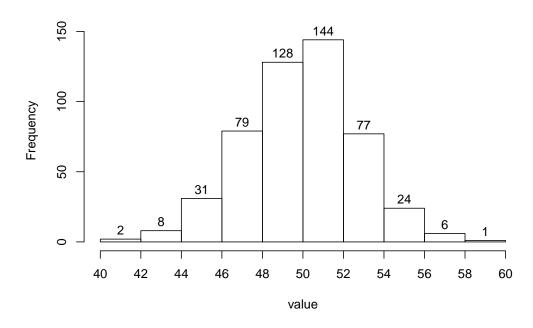


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 75?
- (d) What percent of the measurements are less than 70?
- (e) Of the measurements less than 75, what percent are less than 70?
- (f) Estimate the value of the 11.5th percentile.

- (a) symmetric mound
- (b) 50
- (c) 76.5%
- (d) 53%
- (e) 69.28%
- (f) 60

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

Histogram of measurements

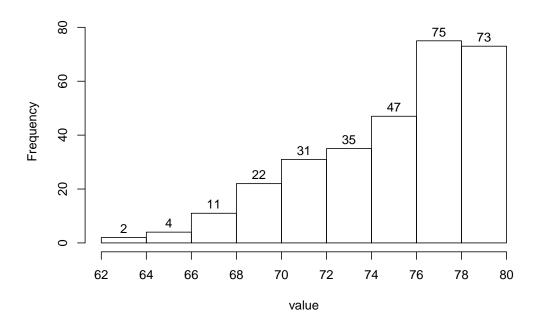


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 46?
- (d) What percent of the measurements are less than 50?
- (e) Of the measurements greater than 46, what percent are less than 50?
- (f) Estimate the value of the 93.8th percentile.

- (a) symmetric mound
- (b) 20
- (c) 91.8%
- (d) 49.6%
- (e) 45.1%
- (f) 54

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

Histogram of measurements

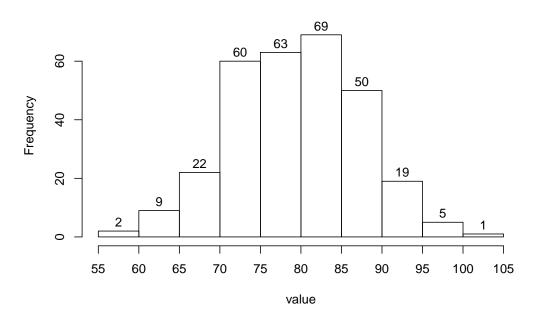


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 70?
- (d) What percent of the measurements are less than 78?
- (e) Of the measurements greater than 70, what percent are less than 78?
- (f) Estimate the value of the 5.667th percentile.

- (a) skew left
- (b) 18
- (c) 87%
- (d) 75.67%
- (e) 72.03%
- (f) 68

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

Histogram of measurements

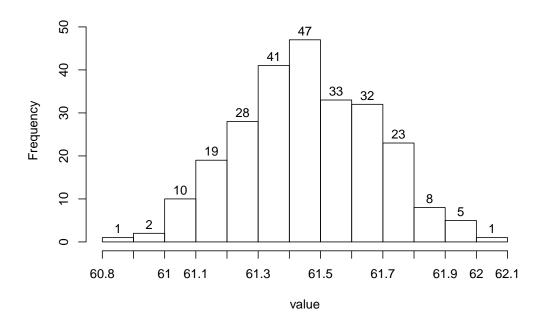


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 80?
- (d) What percent of the measurements are less than 100?
- (e) Of the measurements greater than 80, what percent are less than 100?
- (f) Estimate the value of the 75th percentile.

- (a) symmetric mound
- (b) 50
- (c) 48%
- (d) 99.67%
- (e) 99.31%
- (f) 85

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

Histogram of measurements

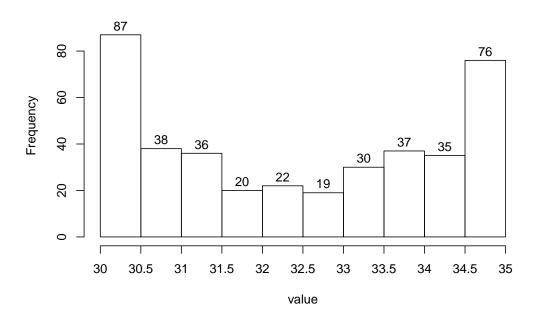


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 61.7?
- (d) What percent of the measurements are less than 61.8?
- (e) Of the measurements greater than 61.7, what percent are less than 61.8?
- (f) Estimate the value of the 0.4th percentile.

- (a) symmetric mound
- (b) 1.3
- (c) 14.8%
- (d) 94.4%
- (e) 62.16%
- (f) 60.9

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

Histogram of measurements

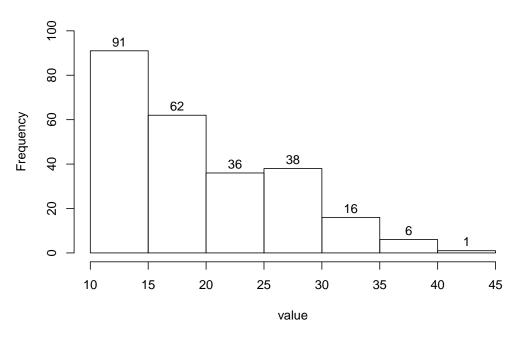


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 31?
- (d) What percent of the measurements are greater than 33.5?
- (e) Of the measurements greater than 31, what percent are greater than 33.5?
- (f) Estimate the value of the 40.25th percentile.

- (a) bimodal
- (b) 5
- (c) 68.75%
- (d) 37%
- (e) 53.82%
- (f) 31.5

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

Histogram of measurements

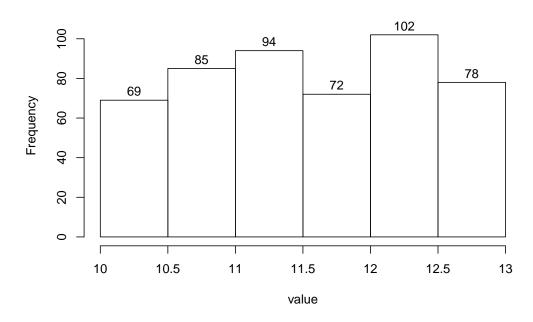


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 20?
- (d) What percent of the measurements are greater than 35?
- (e) Of the measurements greater than 20, what percent are greater than 35?
- (f) Estimate the value of the 36.4th percentile.

- (a) skew right
- (b) 35
- (c) 38.8%
- (d) 2.8%
- (e) 7.216%
- (f) 15

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

Histogram of measurements

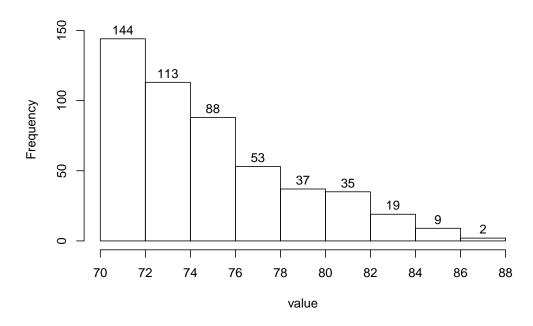


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 11.5?
- (d) What percent of the measurements are less than 12.5?
- (e) Of the measurements greater than 11.5, what percent are less than 12.5?
- (f) Estimate the value of the 64th percentile.

- (a) uniform
- (b) 3
- (c) 50.4%
- (d) 84.4%
- (e) 69.05%
- (f) 12

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

Histogram of measurements

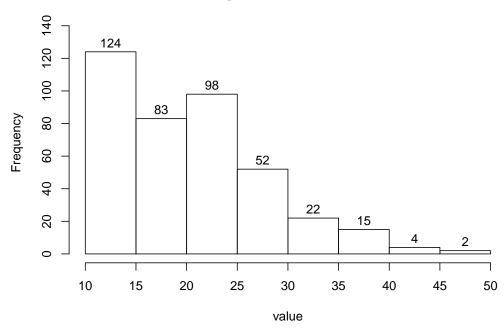


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 74?
- (d) What percent of the measurements are greater than 70?
- (e) Of the measurements less than 74, what percent are greater than 70?
- (f) Estimate the value of the 69th percentile.

- (a) skew right
- (b) 18
- (c) 51.4%
- (d) 100%
- (e) 100%
- (f) 76

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

Histogram of measurements

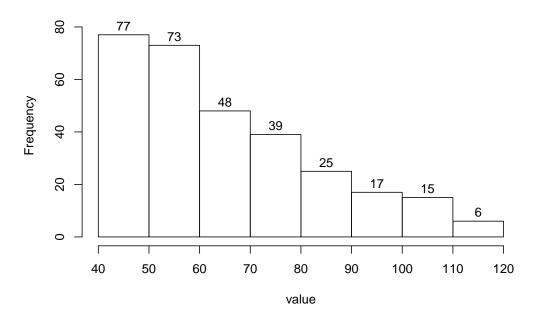


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 35?
- (d) What percent of the measurements are greater than 45?
- (e) Of the measurements greater than 35, what percent are greater than 45?
- (f) Estimate the value of the 98.5th percentile.

- (a) skew right
- (b) 40
- (c) 5.25%
- (d) 0.5%
- (e) 9.524%
- (f) 40

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

Histogram of measurements

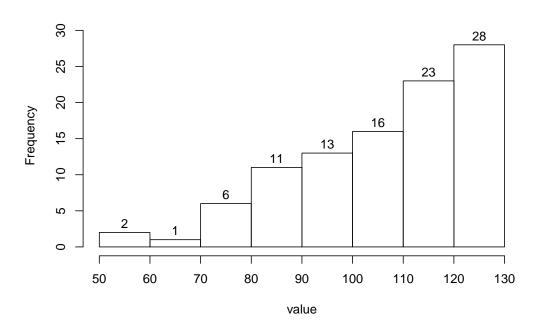


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 80?
- (d) What percent of the measurements are greater than 100?
- (e) Of the measurements greater than 80, what percent are greater than 100?
- (f) Estimate the value of the 50th percentile.

- (a) skew right
- (b) 80
- (c) 21%
- (d) 7%
- (e) 33.33%
- (f) 60

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

Histogram of measurements

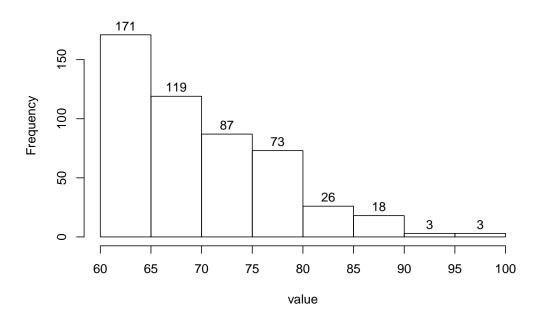


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 70?
- (d) What percent of the measurements are less than 90?
- (e) Of the measurements greater than 70, what percent are less than 90?
- (f) Estimate the value of the 49th percentile.

- (a) skew left
- (b) 80
- (c) 97%
- (d) 20%
- (e) 17.53%
- (f) 110

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

Histogram of measurements

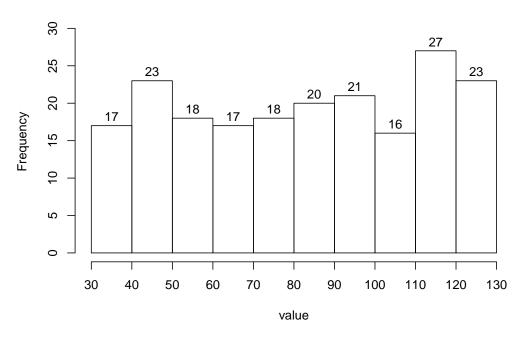


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 70?
- (d) What percent of the measurements are greater than 65?
- (e) Of the measurements less than 70, what percent are greater than 65?
- (f) Estimate the value of the 95.2th percentile.

- (a) skew right
- (b) 40
- (c) 58%
- (d) 65.8%
- (e) 41.03%
- (f) 85

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

Histogram of measurements

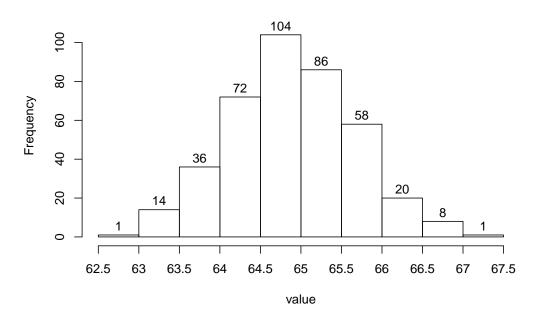


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 60?
- (d) What percent of the measurements are greater than 40?
- (e) Of the measurements less than 60, what percent are greater than 40?
- (f) Estimate the value of the 20th percentile.

- (a) uniform
- (b) 100
- (c) 29%
- (d) 91.5%
- (e) 70.69%
- (f) 50

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

Histogram of measurements

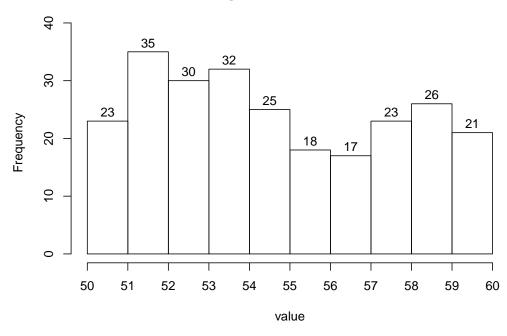


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are greater than 66?
- (d) What percent of the measurements are greater than 66.5?
- (e) Of the measurements greater than 66, what percent are greater than 66.5?
- (f) Estimate the value of the 0.25th percentile.

- (a) symmetric mound
- (b) 5
- (c) 7.25%
- (d) 2.25%
- (e) 31.03%
- (f) 63

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

Histogram of measurements

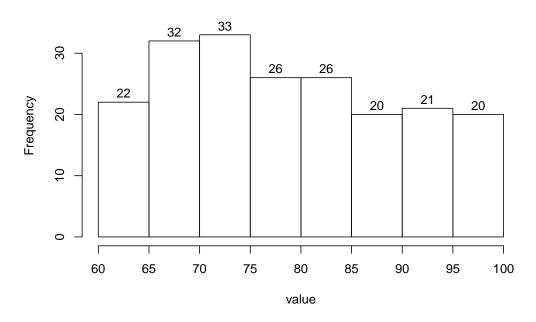


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 52?
- (d) What percent of the measurements are less than 50?
- (e) Of the measurements less than 52, what percent are less than 50?
- (f) Estimate the value of the 48th percentile.

- (a) uniform
- (b) 10
- (c) 23.2%
- (d) 9.2%
- (e) 39.66%
- (f) 54

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

Histogram of measurements

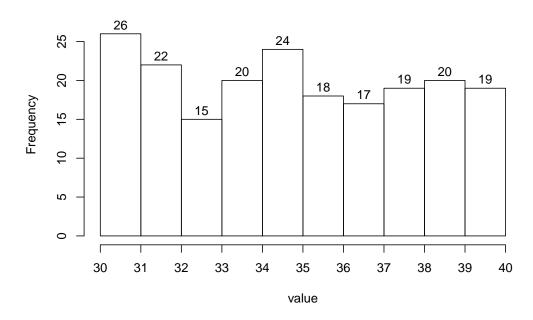


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 85?
- (d) What percent of the measurements are less than 80?
- (e) Of the measurements less than 85, what percent are less than 80?
- (f) Estimate the value of the 11th percentile.

- (a) uniform
- (b) 40
- (c) 69.5%
- (d) 56.5%
- (e) 81.29%
- (f) 65

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

Histogram of measurements

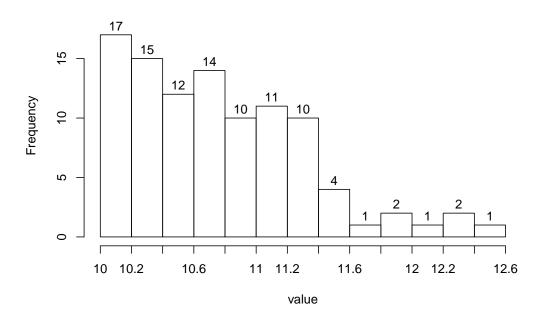


- (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
- (b) Estimate the range of the distribution (range = max-min).
- (c) What percent of the measurements are less than 33?
- (d) What percent of the measurements are greater than 32?
- (e) Of the measurements less than 33, what percent are greater than 32?
- (f) Estimate the value of the 62.5th percentile.

- (a) uniform
- (b) 10
- (c) 31.5%
- (d) 76%
- (e) 23.81%
- (f) 36

A continuous random variable was measured 100 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 11.4?
- (d) What percent of the measurements are greater than 11.6?
- (e) Of the measurements greater than 11.4, what percent are greater than 11.6?
- (f) Estimate the value of the 79th percentile.

- (a) skew right
- (b) 2.6
- (c) 11%
- (d) 7%
- (e) 63.64%
- (f) 11.2