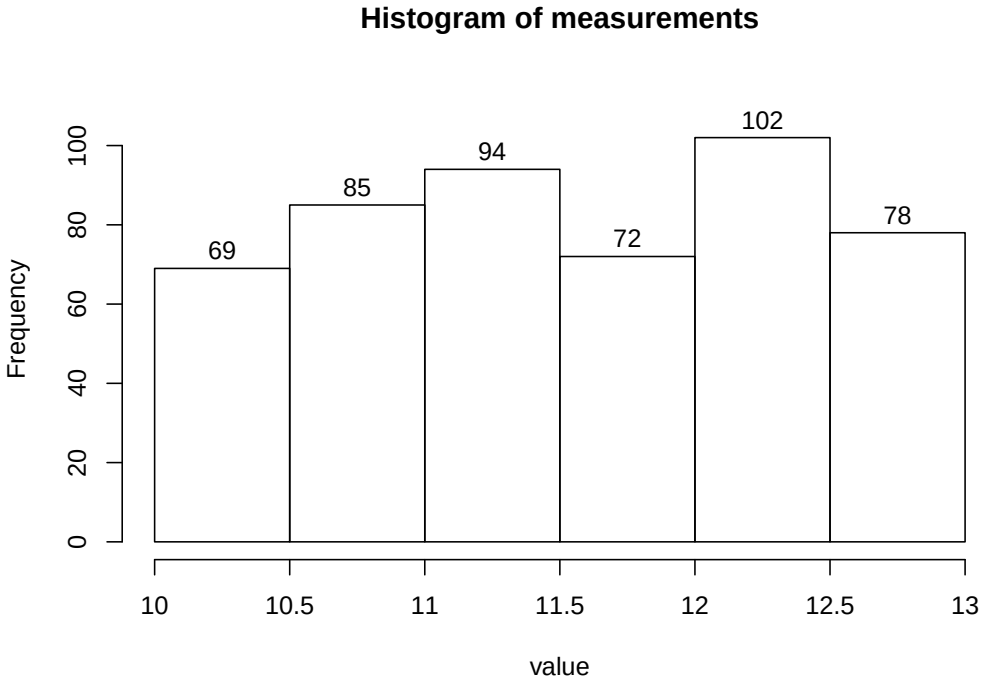
1. **Problem**
   A continuous random variable was measured 500 times. The histogram is shown below.

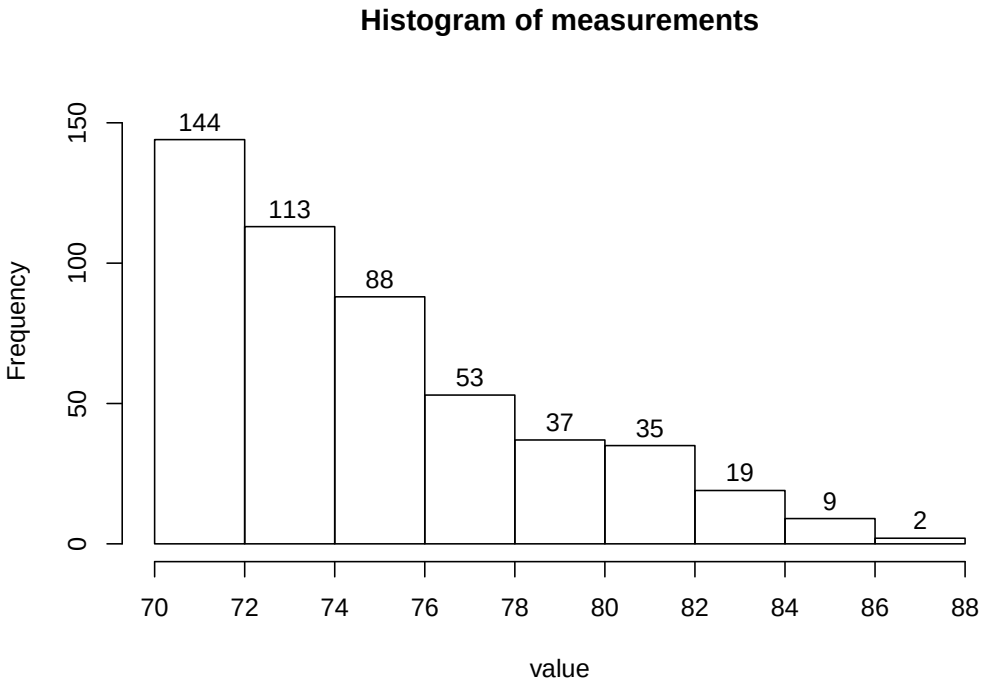



   (a) Describe the overall shape of the distribution. (symmetric mound, skew left, skew right, uniform, or bimodal)
   (b) Estimate the range of the distribution (range = max-min).
   (c) What percent of the measurements are greater than 11.5?
   (d) What percent of the measurements are less than 12.5?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

**Solution**

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

2. **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 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.

**Solution**

(a) skew right

(b) 18

(c) 51.4%

(d) 100%

(e) 100%

(f) 76