1. Find the 58th percentile and 3rd quartile of an exponential distribution with parameter \( \theta = 5 \).

2. Find the 34th percentile of the uniform distribution on the interval \([9, 26]\).

3. Consider the sample 4,9,10,3,2,8,4,7,15,8,1,1,6,2,4,10,15,12,14.
   (a) Find the 1st quartile, median, and 3rd quartile (don’t forget to sort the data).
   (b) Find the 20th and 60th percentiles.