

[illegible]

Representing Statistical Data

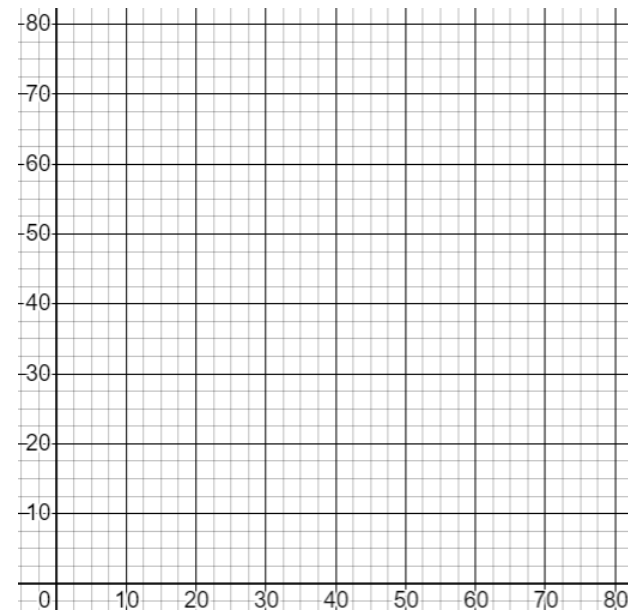
1. The length in mm of 80 leaves is recorded in a grouped frequency table.

Length L (mm)	Frequency
$20 < L \leq 30$	4
$30 < L \leq 40$	7
$40 < L \leq 50$	15
$50 < L \leq 60$	23
$60 < L \leq 70$	22
$70 < L \leq 80$	9

(a) Complete a cumulative frequency table.

Length L (mm)	Cumulative Frequency
$20 < L \leq 30$	
$20 < L \leq 40$	
$20 < L \leq 50$	
$20 < L \leq 60$	
$20 < L \leq 70$	
$20 < L \leq 80$	

(b) Plot a cumulative frequency graph.



(c) Find the median length.

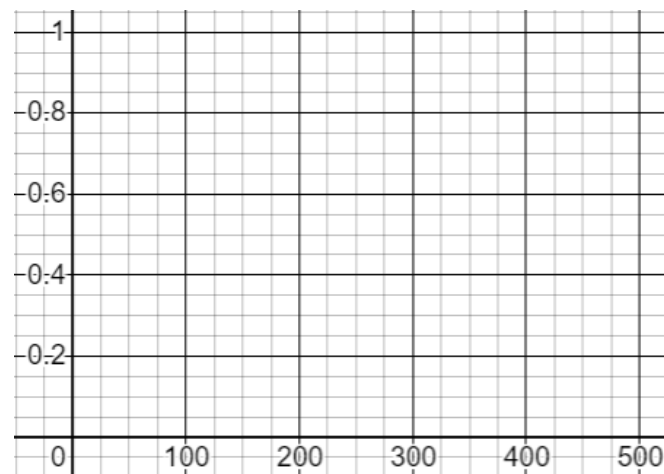
(d) Find the interquartile range of lengths.

(e) Find an estimate for the number of leaves greater than 75 mm in length.

2. The areas in m^2 of 200 gardens are recorded in a grouped frequency table.

Area (m^2)	Frequency		
$0 < A \leq 50$	10		
$50 < A \leq 100$	25		
$100 < A \leq 200$	80		
$200 < A \leq 300$	65		
$300 < A \leq 500$	20		

(a) Plot a histogram.



(b) Use your histogram to estimate the number of gardens that are larger than $220 m^2$.

(c) Use your histogram to estimate the median garden size.