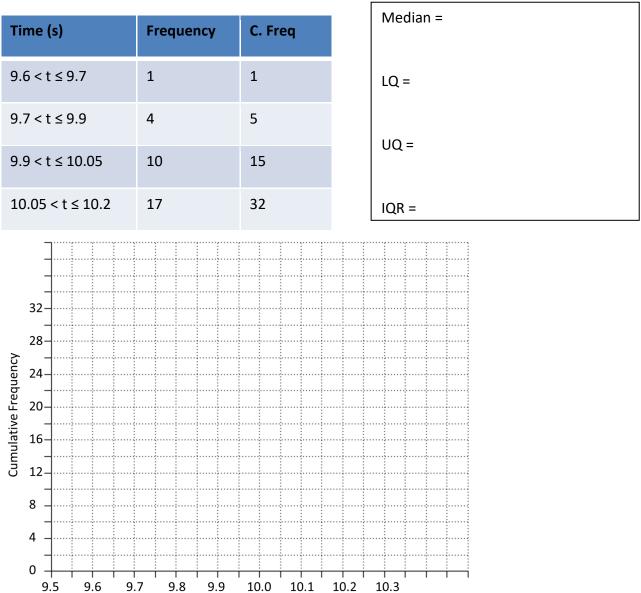
## **Cumulative Frequency Diagrams**

We use cumulative frequency diagrams to consider the running totals of / people/ things up to a given value. They are useful for estimating the median and quartiles.

Example: The table below shows the time taken for a group of runners to run 50m. Draw a Cumulative Frequency curve for the data. Use your graph to estimate the median, LQ, UQ and IQR.



Estimate how many runners had a time less than 10.15s.

Time (s)

Estimate how many runners had a time more than 9.95

Estimate how many runners had a time between 9.8s and 10s

Ex 3C Pg 47/48