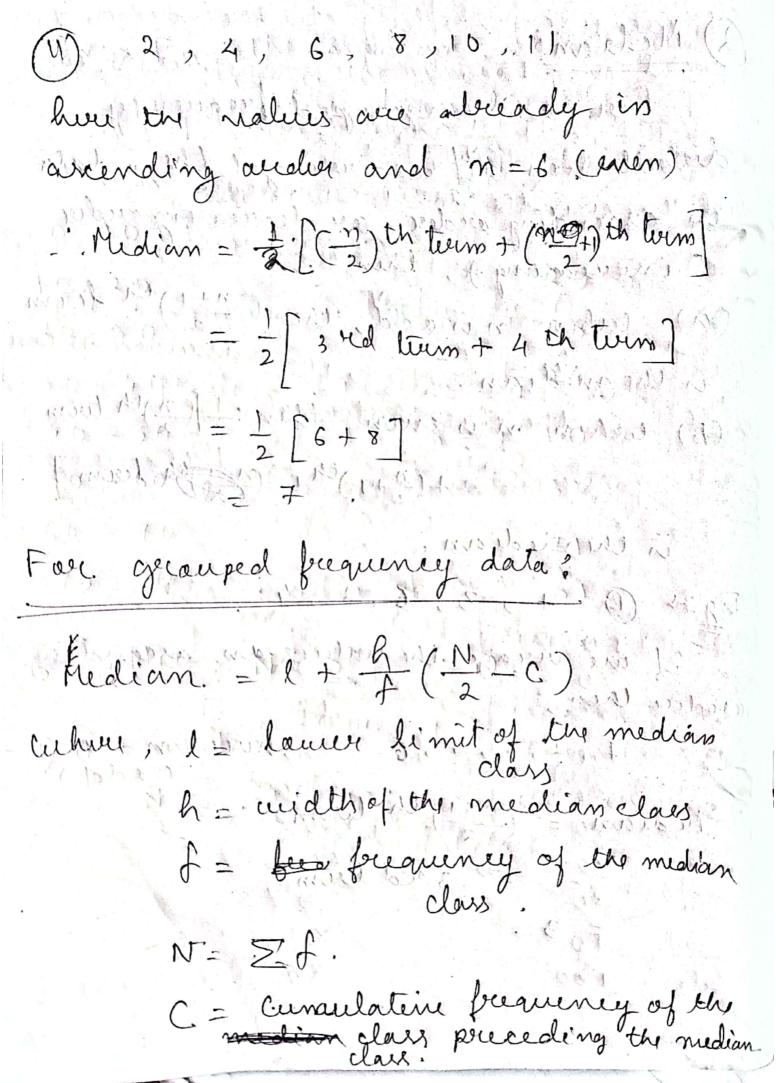
(2) Median! Far an ungræuped frequency distribution, if we awanged the data in ascending order or decreasing order (increasing), then (a) cuhen n is add, then $(\frac{n+1}{2})$ th term is the median. (b) when n is even, then \(\frac{1}{2} \left(\frac{n}{2} \right) th turn +12+1)th + math loim is the median 图: 分①1,3,6,2,4 of me average the natures air according 1,2,3,4,8 12 12) huei 1 n = 5 (n+1) th turn Median = 2 3 red term

Europella Color Geranica



Quartiles & Oscartiles are there value of the variate cubies dévide the toles prequency into 4 equal parts. It lauer quartile is denoted by Os and defined as, Q1=1++(N-C) $\beta_3 = l + \frac{4}{7} \left(\frac{3N}{4} - C \right)$ culou, fis the frequency of the quartile class; cumulation friedwiney of the class preceding the quantile class The terms of the second of the

Find the median, lawer and apper quartile beam the followe'ng. No of Wudents

Sel " che continued the following talile
Marks No of students (C.F. (C)
0-10
20 -30 25 11 10 10 10 10 10 10 10 10 10 10 10 10
30-40
40-50
501-60 171 127 198
60-70-171
70-180. 1.57. He Alding 249
Hove, $N = 249$ $\frac{1}{2} = 124.5$
No. 249 = 124.5.
the median class is, 50-60.
$\therefore l = 50, h = 10, f = 33, l = 34.$
Median = $l + \frac{h}{f} \left(\frac{N}{\lambda} - c \right) = 59.24$
Lever quartile.
leveler quartity.

Scanned with CamScanner

in the construent to participation Made: Made is the value which accur most frequently in a set of observation For directe data, et made is the value culous frequency is highest. For frequency distribution: Made = $l + \frac{fm - f_1}{2f_m - f_1 - f_2} \times h$. where & = lawer limit of the model h = width of the model class. In = ferequency of the madel class f, = frequency of the class preceding the modern class. the model days Scanned with

Scanned with CamScanner

Ex: Find the made of the following Late 11 - 15 21 - 2526-30 36-40 Selv.) here, the highest frequency is 32 and and that his in the class 16-20 Hence, modal dass is 16-20 But actual limit of the class is 16 x xhorman level poor

$$f_{1} = 24, h = 5.$$

$$Mode = 1 + \frac{f_{m} - f_{1}}{2f_{m} - f_{1} - f_{2}} \times h.$$