

0 # Applications text Health 9 find rate, blood pressure etc.) information define, what is normal or healthy use-fullmess of statistics - It deals with application msmo out efficacy/potency of particular disease - etrby comparing with standard drugs. leading course of death, important and 2 statistical nuthods to normal values (eq. pulse TSO TSO sickness, Rise and fall public health importang Macciny of Rio-statistica a new

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FREQUENCY DISTRIBUTIONS

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frequency distributions > It is a tabular Observation (frequency) within a given intervals. data that graphical representation of displayed the number of

OR

6 their frequencia (no. of observation) with simple words, 中心地 distribution respect to

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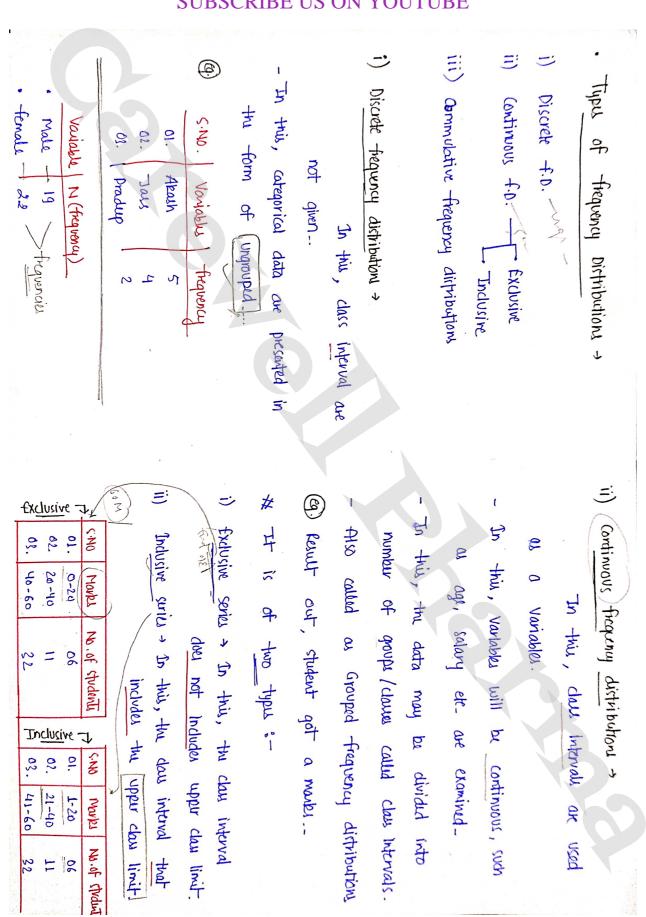
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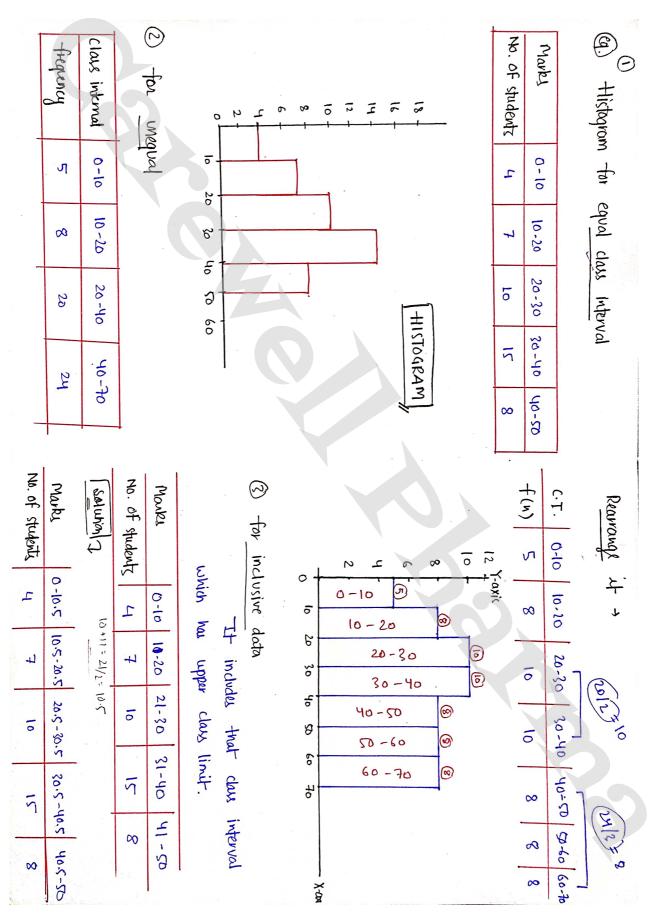
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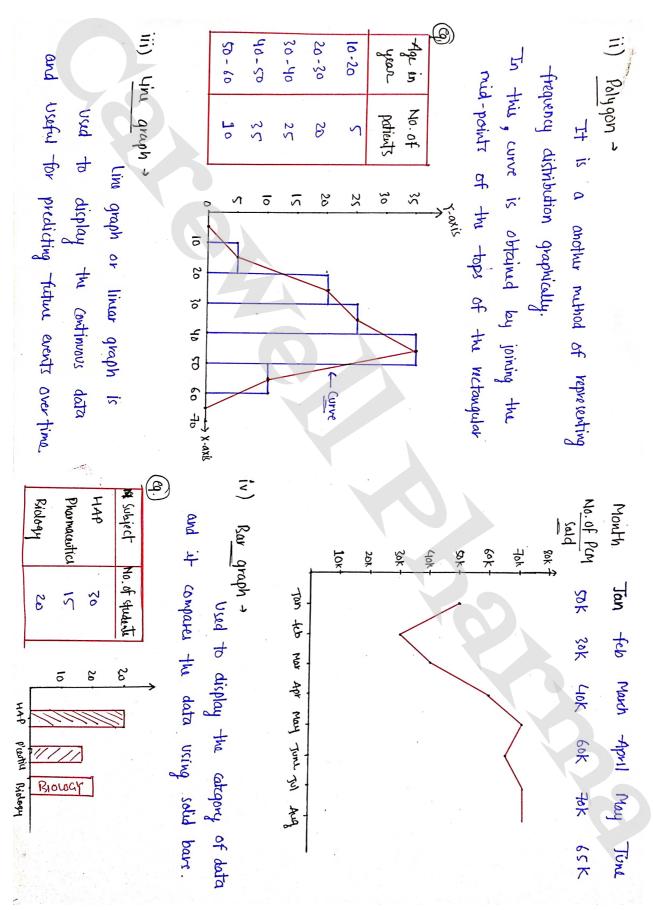
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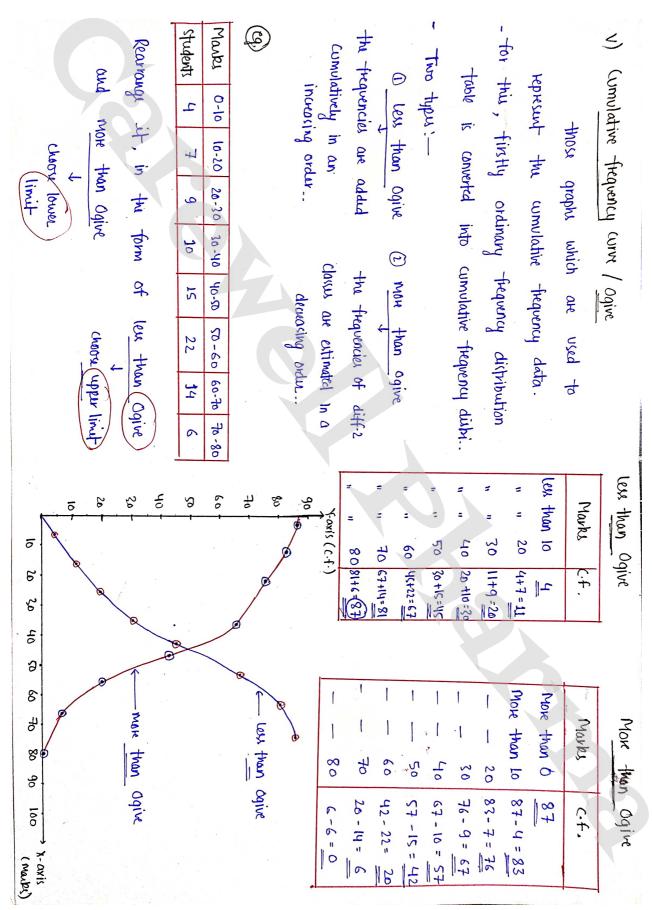


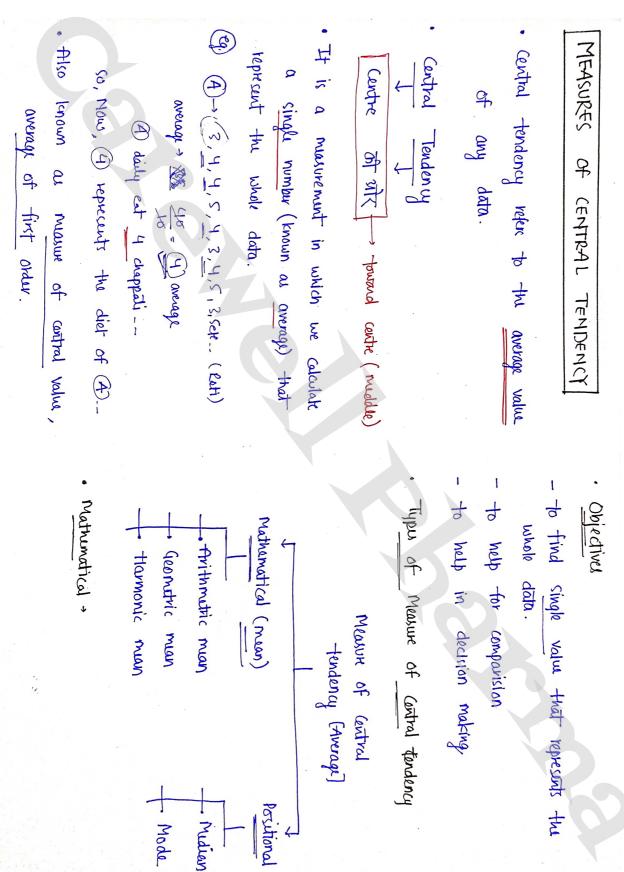
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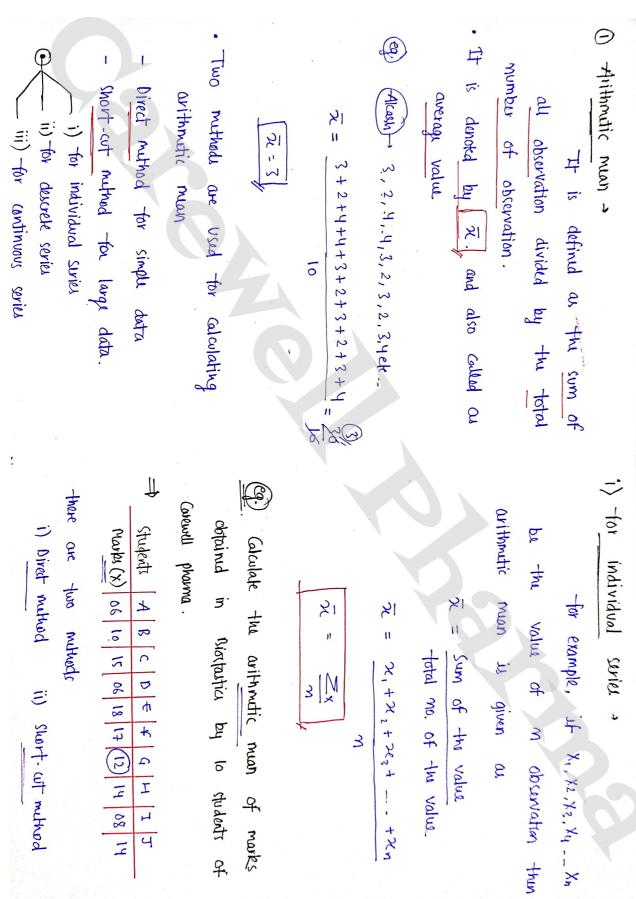


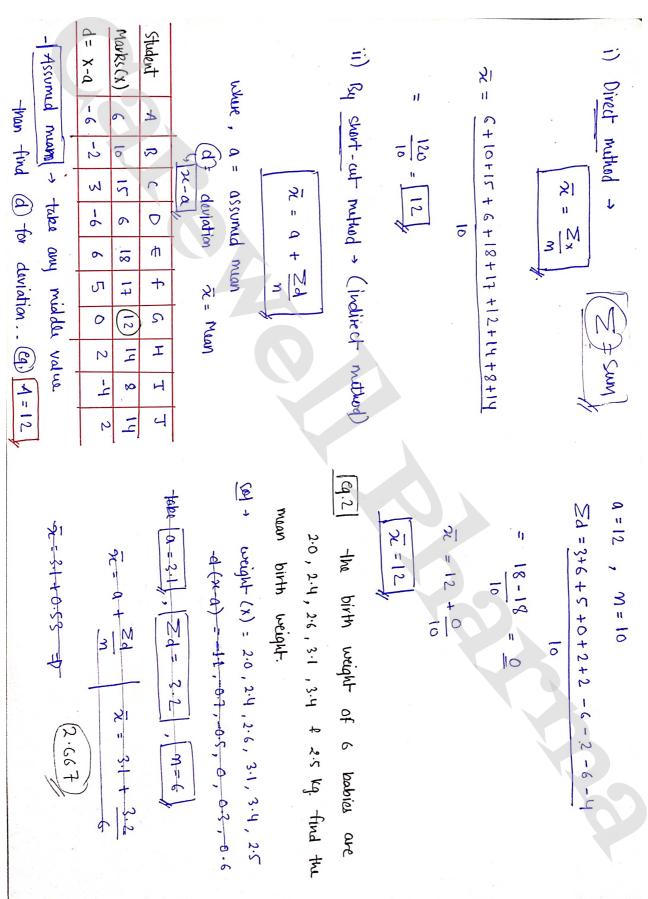
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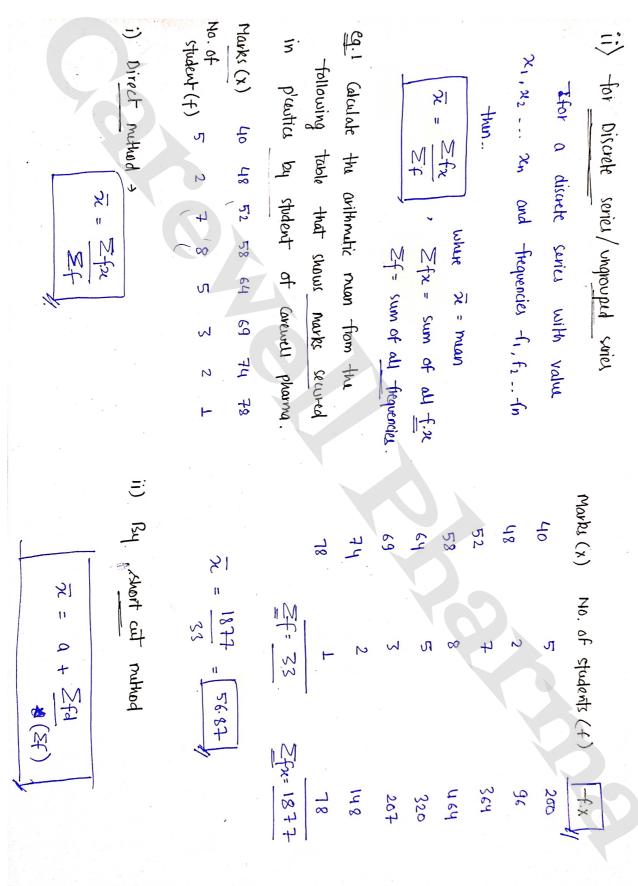


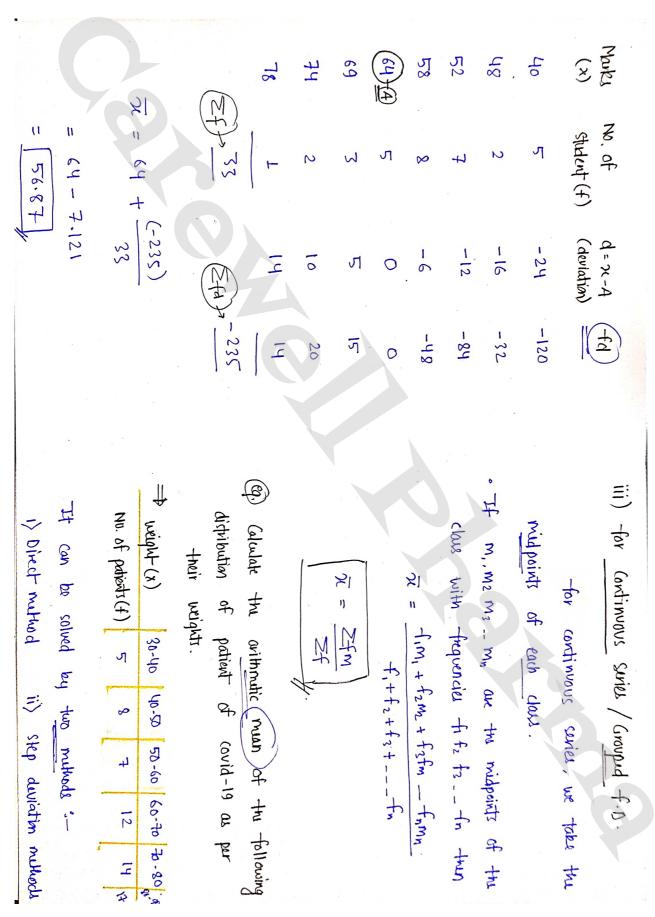


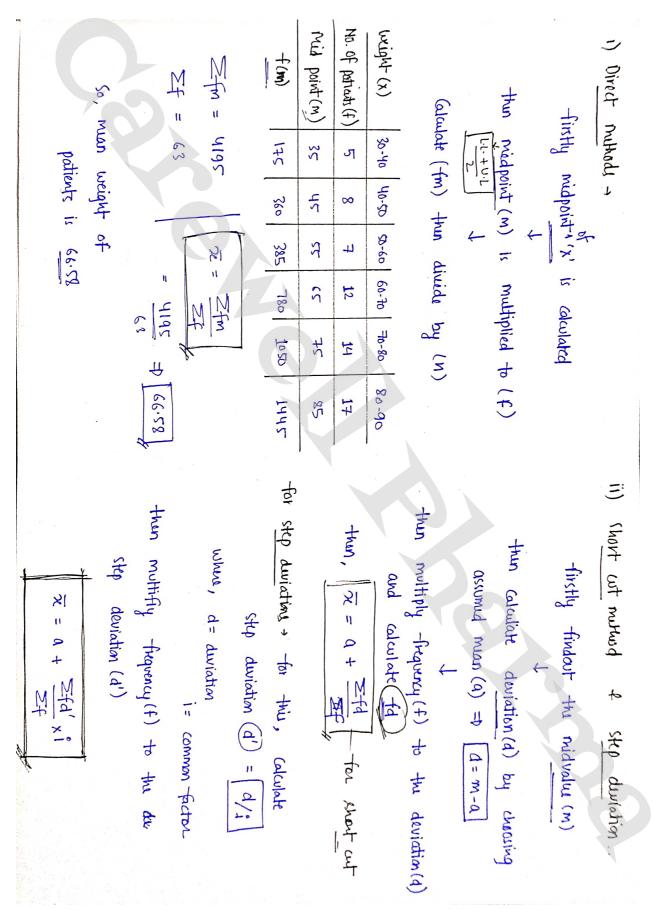




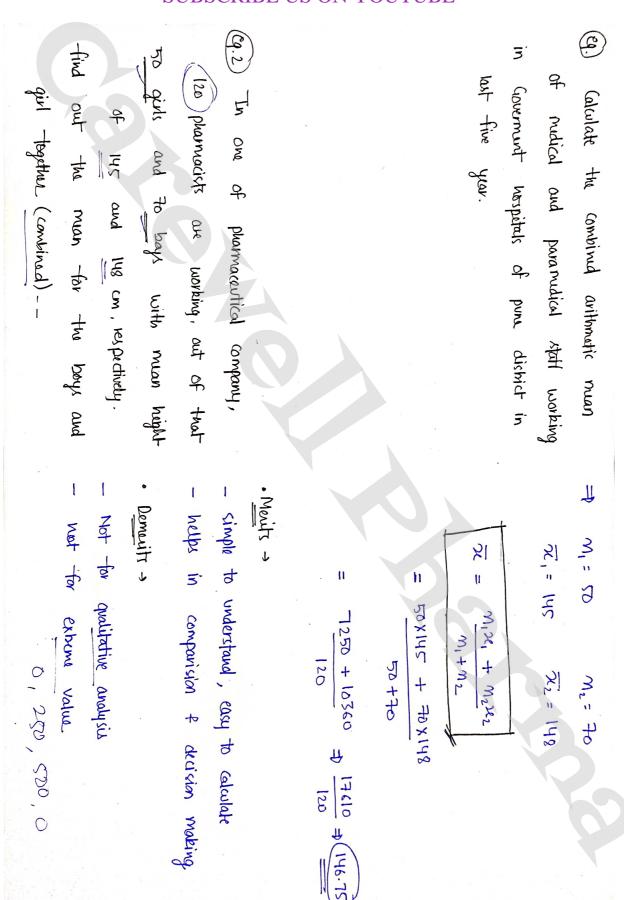


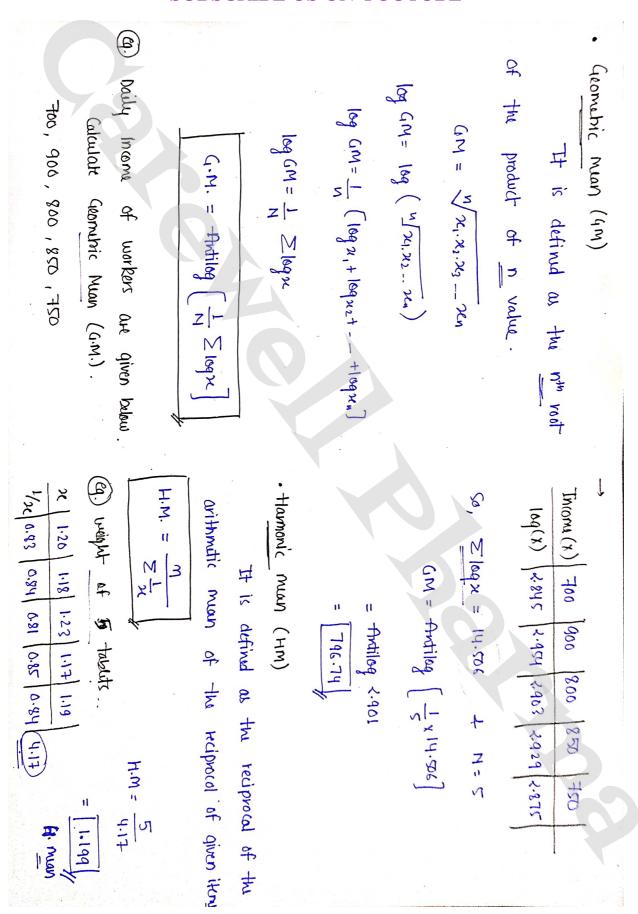


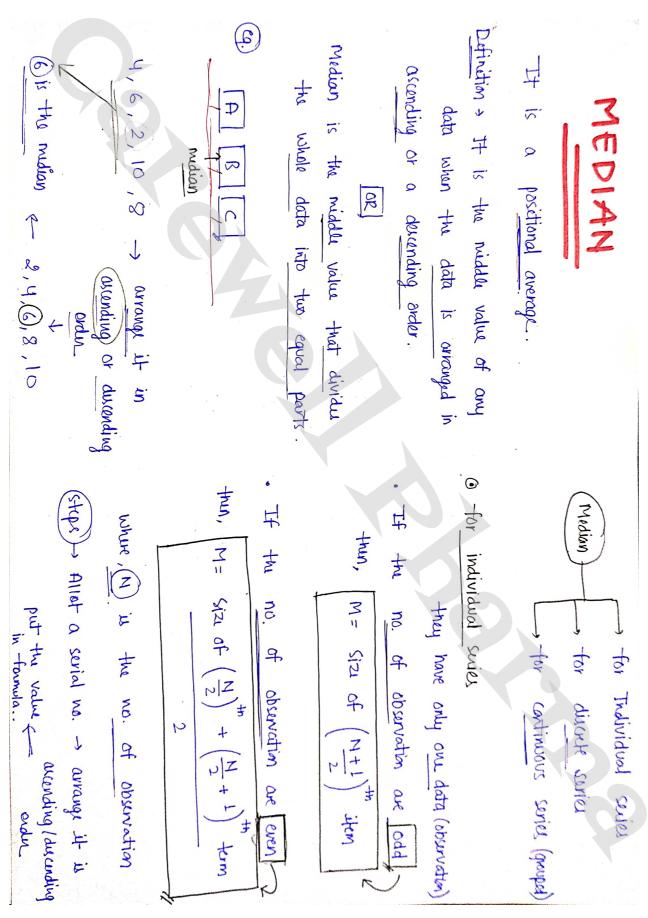


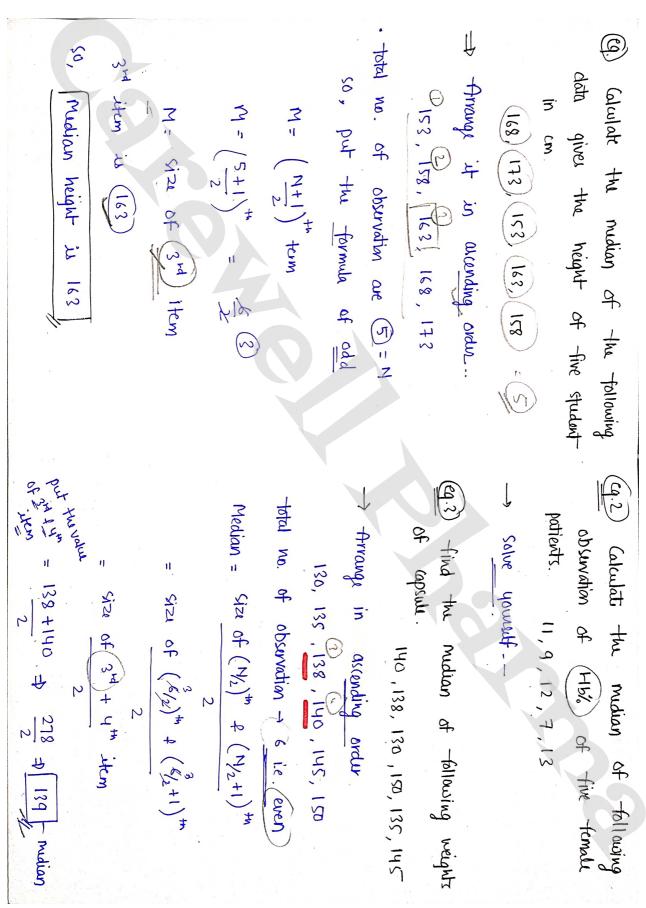


\$	21 1 55 +	Short cut I				80 - 90	70 - 80	60 - 70	20 - 60	40 - 50	30-40	Weight (x)
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85.58				7		\$2	>£	59	(ST) 4 4	517	55	Mid politi
		step-duviation]				85-55= (30)	75-55= 20/0= 2	65-55 = 10	Sz-25 ≥	45-52 = (-10)	35-55 = (-20)	d= m-q
1 52 +	7 = 0 +	the material of the second				30/10 = 3	24/0 = 2	10/10 = (1)	10	-10/10 = (-1)	-20/10 = (-2)	d'= d.
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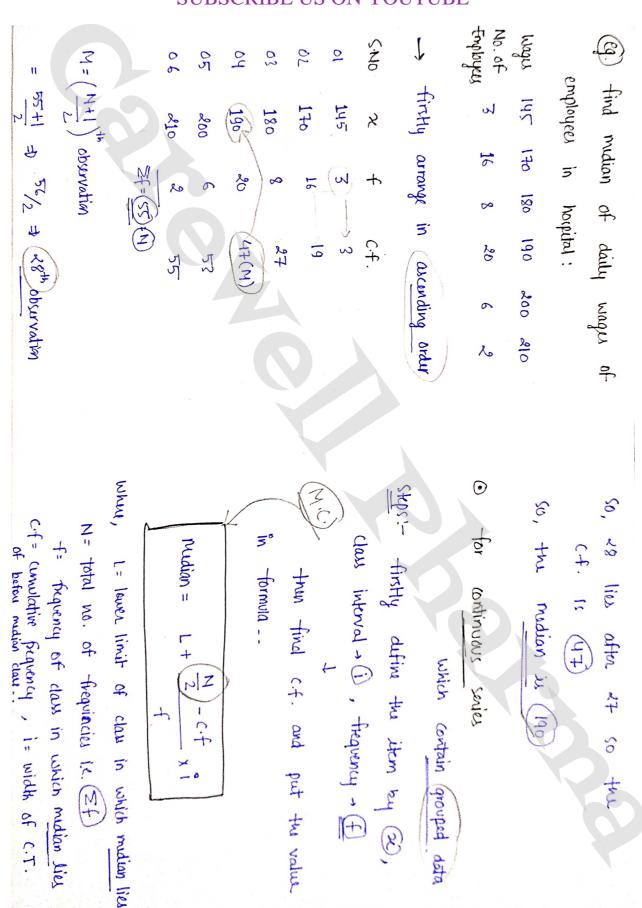




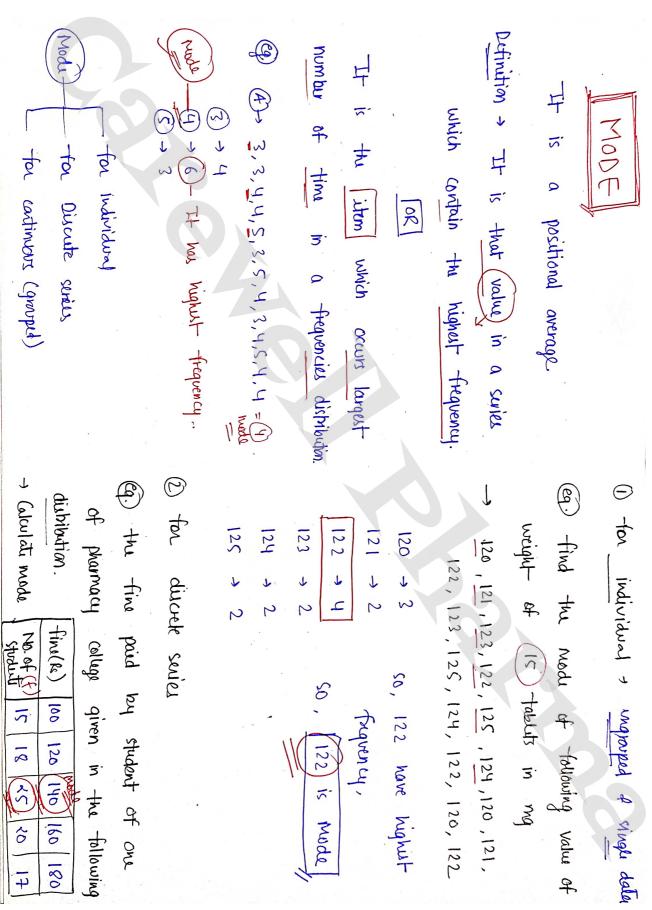


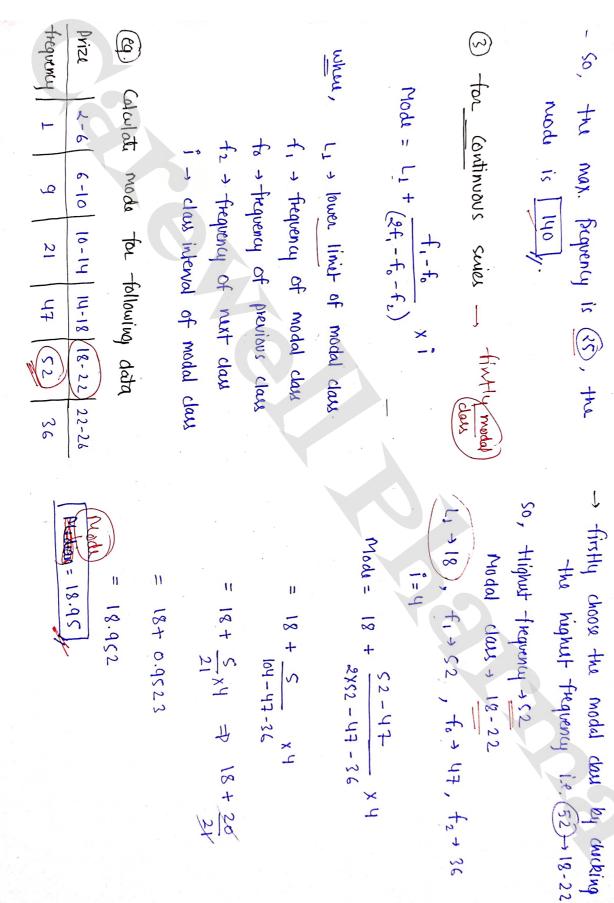


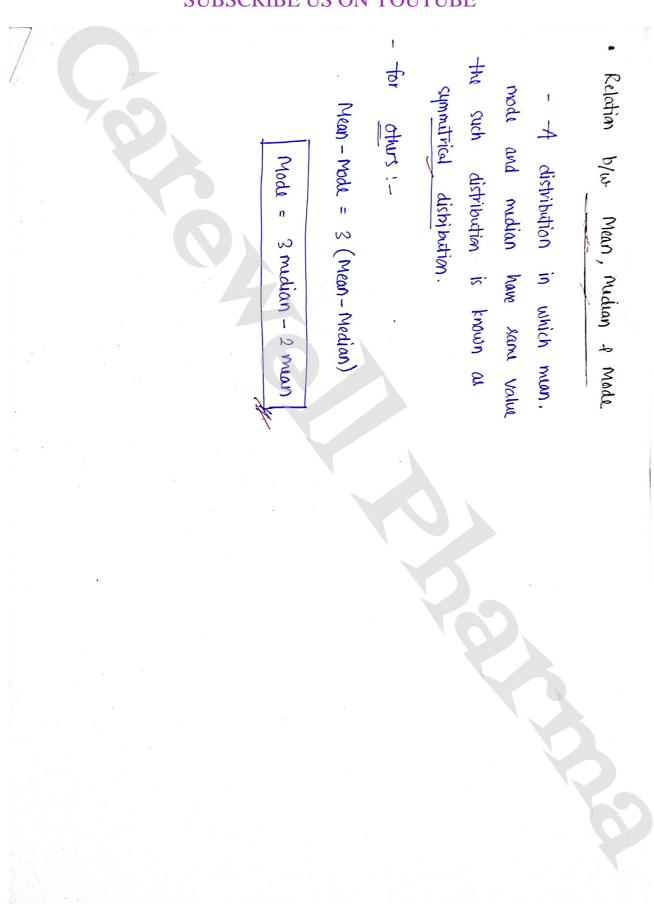
Monthly (x) 25 30 26 27 28 31 29 No. of supervisor 15 17 16 18 20 19 17	(eg.) Calculate the (mudian) salary pand to the production supervisor working in parenteral department of plantical industry as per	Where, M= Median, N= Cumulative	$M = Size \left(\frac{N+1}{2}\right)^{+}$ item	6	Thuy have two data (observation).
". Mudian of salary paid is (2815)	61.5 Comus	=	Here, $N = \left(\frac{\sum f}{\sum f} = 122\right)$. Median (M) = size $\left(\frac{N+1}{2}\right)^{\frac{1}{2}}$ item	No. of supervisor (f) 15 16 18 $ < 0 $ 17 17 19 (umulative faquency (cf.) $ 15 $	Monthly (x) 25 26 27 (8) 29 30 31



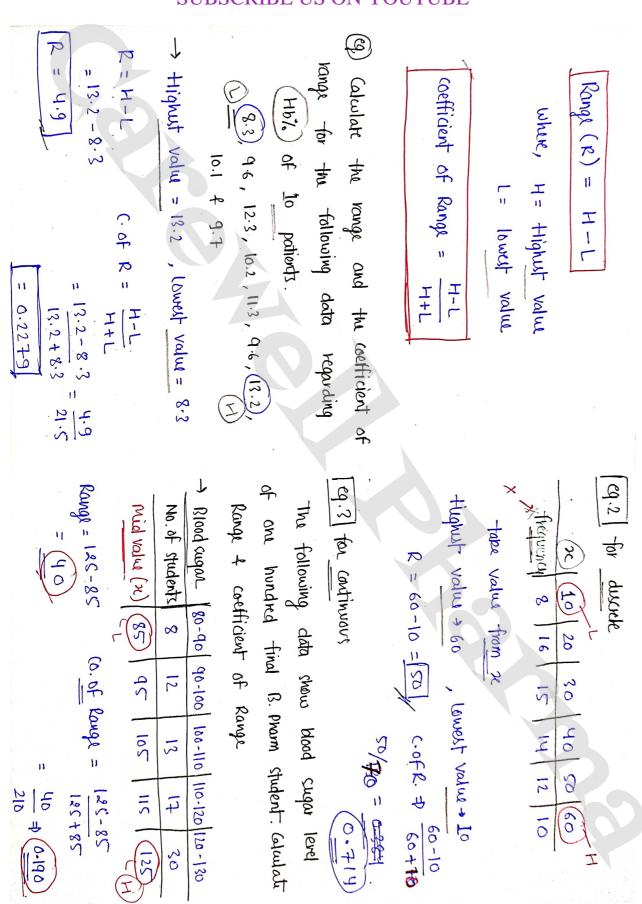
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So, the median class is 30 - (80-90) So, Now, put the value of this median class to the formula.	Hun find (N) = \(\Sigma\) [le = 60] New, find Mudian clous = (N/L)	X 60-70 70-80 80-90 90-100 100-120 f 8 10 12 16 14 C-f- 8 18 30 46 60	(g) Calculate the median from following data:- 2c 60-70 70-80 80-90 90-100 100-120 f 8 10 12 16 14
Hint, firstly find mudian class charse c.f. value of before mudian class = diff of class interval of mudian class.	80-100 100-120 120-140 140-1	[Mudian # 90] [Eq. 2] Christi the median term following dis	+ N/2 - C:1 - 12 - 18

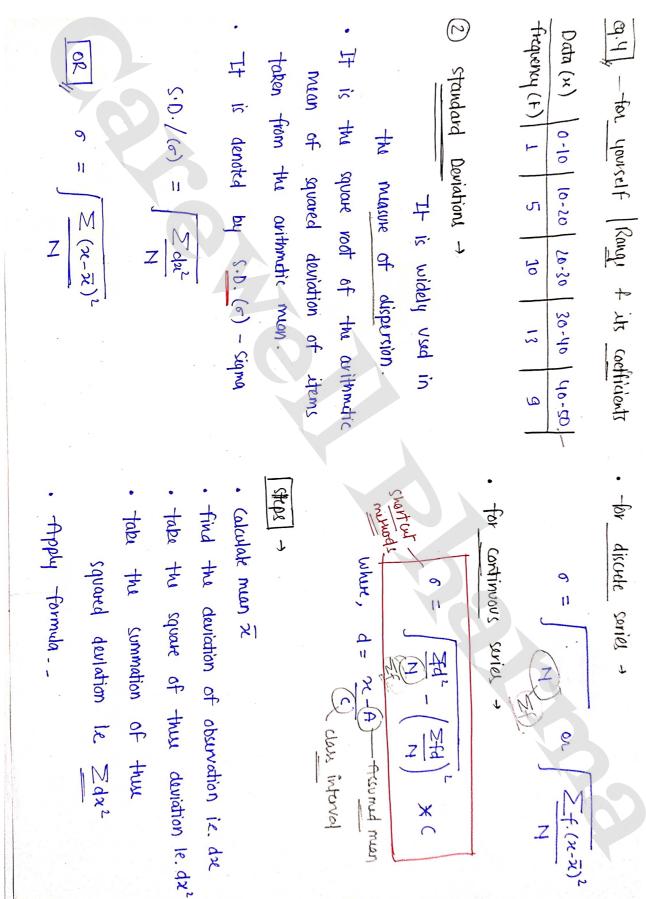




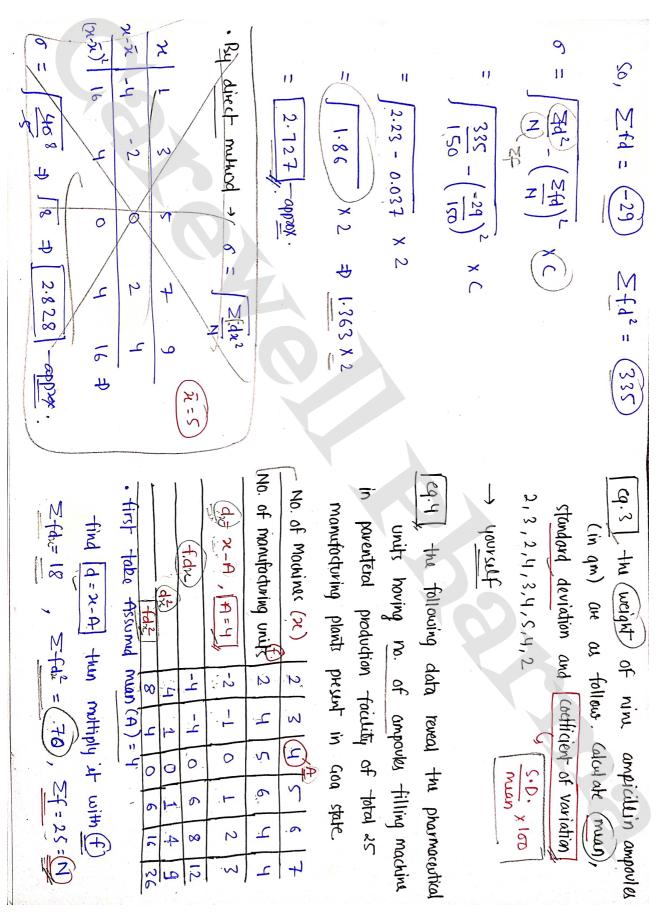


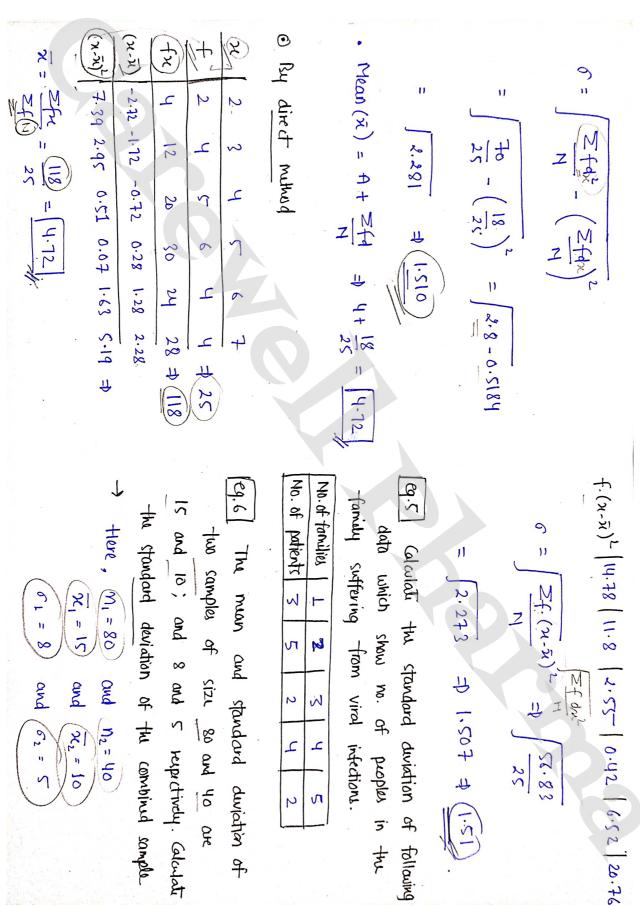
- Dispersion many 井 MEASURES variation -31 Dispusion - It is Value (or muan). (e) 邢 individual observation with its average is obtained by comparing the observations. 2+4+6+8+10 differency or variation) between the 9 Hactuation scatter, deviation, spread DISPERSION - Chapter-3 the muslue 5/0 - Gladati -Hactuation. 9 9 # (F) usus of dispersion !-Typu! · Also known Range 0 Mean deviation + its coefficient Varience Ramps > Standard deviation regarding their variability. control) the variability determine reliability of Value + coefficient of Range & coefficient of variance compare two or 8 5 is defined 古 the Measure observations. as it is the highest and lowest of Variation MOK on overage to distributions

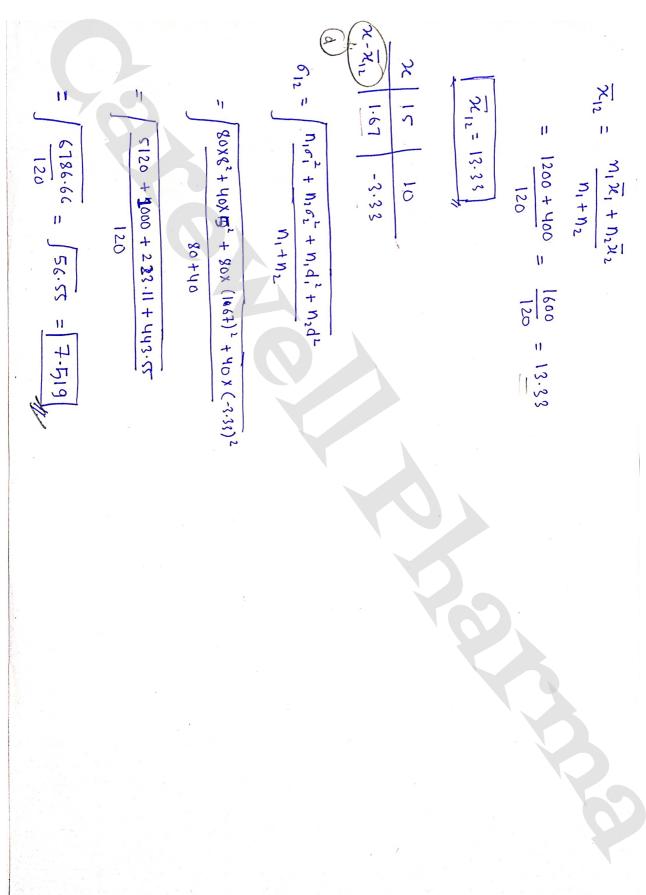


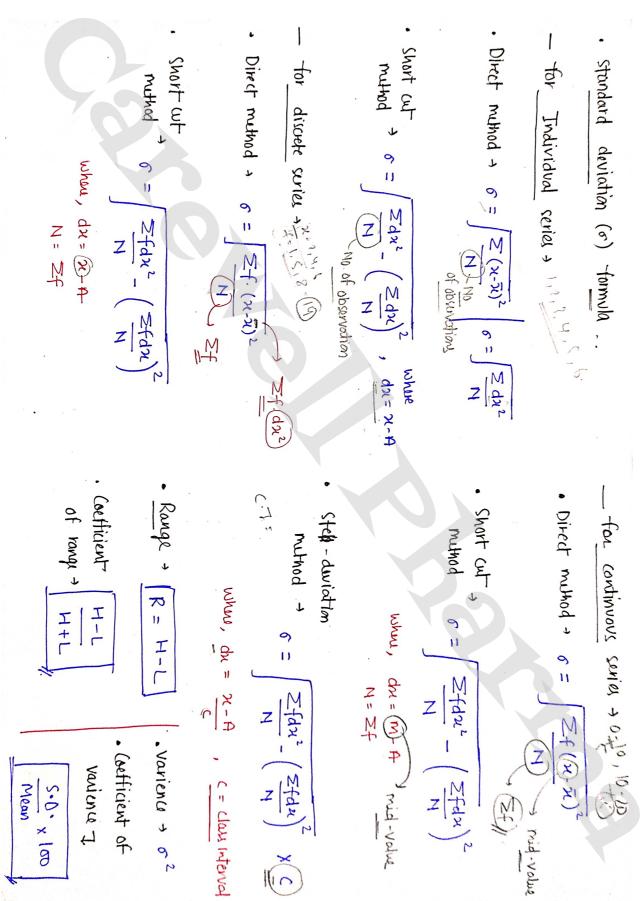


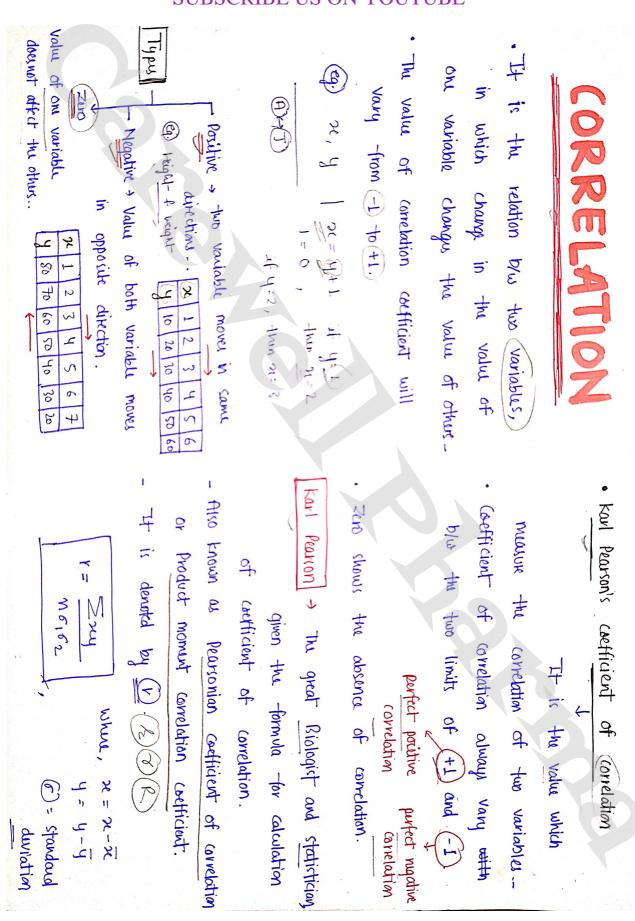
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much $\frac{2}{5} = \frac{3+7+8+9+10}{5} = \frac{37}{5} = \frac{7\cdot 4}{1}$ of $= \int \frac{2(3x^2)}{4} = \int \frac{29\cdot 2}{5} = 7 \int \frac{5\cdot 84}{2\cdot 416}$ eq. 2 In a survey of 150 families in a village, this following distribution of ages of children was found:	Thu find out standard diviation from the following data: $3.7, 8.9, 10$ Thirtly prepare table $6 = 2.2$ $2 \times -2 \times -2 \times -4.4 -0.4 -0.4 -0.6 = 1.6 -2.6$ $2 \times -2 \times -2 \times -4.4 -0.4 -0.6 = 1.6 -2.6$ $2 \times -2 \times -2 \times -4.4 -0.4 = 0.36 = 2.5 = 6.76 + 29.2$
thun calculate (a) by $d = 2e - A$ for this, choose Assumed mean (A) = (S) class interval = (2) + (thun, calculate (d2) thun, calculate fd & fd2 by multiplying thun calculate $2e$ thun calcul	That of (a) $0-2$ $2-4$ $4-6$ $6-8$ $8-10$ No. of (f) 40 32 25 23 $30 = \frac{1}{4}$ Mo. of (f) 40 32 25 25 23 $30 = \frac{1}{4}$ Mo. of (f) 40 32 25 25 23 $30 = \frac{1}{4}$ Mo. of (f) 40 40 40 40 40 40 40 40

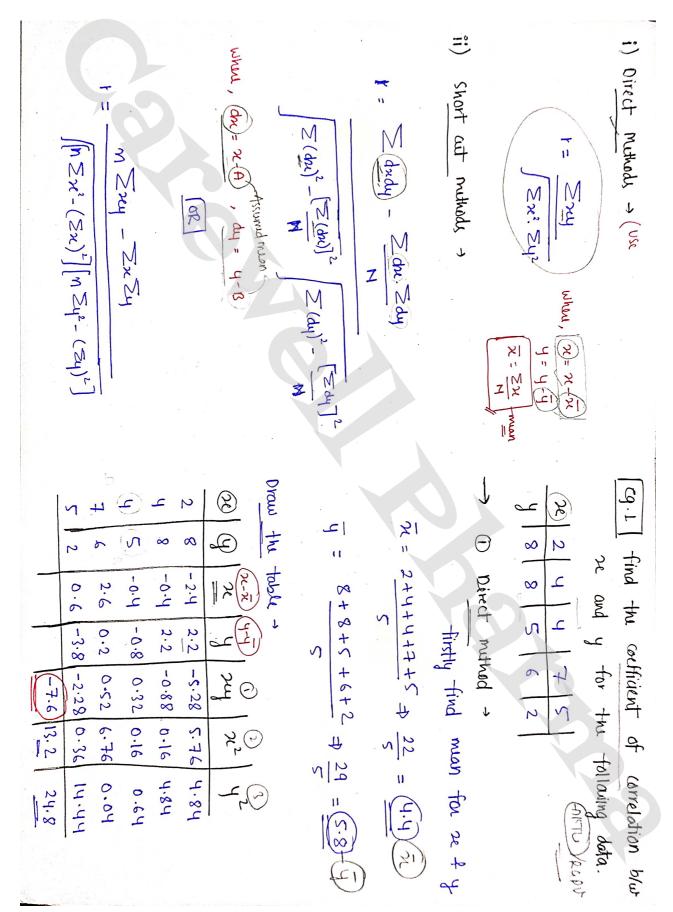












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1	7 y dans and day day day	\[\begin{align*} \left \frac{1}{2} \left \frac\	Dandy - Sanz Say	Agr (x) 1 2 3 4 5 6 Height (4) 7 11 14 19 24 29	of correlation b/w the ages of plants and their height in a field given as follow:

