

$\bar{X} =$	źx		153 = 3 Au	•
	$\gamma$	•	8	70.20
E-g-	Discorec	ite Se	ries i	
X 3	£'	f(x) 12		
- <u>2</u> 5 7	3	2 . 15 . 14		
	$2 \\ 2f = 10$	U	0 = 43	
Χ =	$\frac{\mathcal{L}f(x)}{\mathcal{L}f}$	4	$\frac{3}{10} = 4.3 \text{ As}$	
E.g- (	Continuous	Series	?-	
C. I.	f	$\mathcal{X}$	f(x)	
0-10	3	5	15	1 10
10-20	1	15	15	
20-30	2	25	50	
30-90	Ef=10	35	$\xi f(x) = 220$	
$\overline{\chi} =$	28(x)	220	= 22 As	
	Ef	Ø	· 4 · 10 · 10	

* Assume Mean method 1-
Step-1 Assume any no as assume mean. Step-2 Deviation forom assume mean.
Deviation-When a particular no is Subtracted
Step-3 find Sum of deviation from assume
Eg- Individual Sonies!
$X \longrightarrow X - A$ .
2 = A $3 - 2 = 1$ $2 - 2 = 0$
$\frac{1-2}{5} = -1$ $\frac{5}{4} = \frac{5}{5-2} = 3$
$4-2=2$ $\leq (x-A)=5$
$X = A + \underbrace{\xi(X-A)}$
= 2 + 51
= 2+1
3 h

* Discorente Series!-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5 3 2 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$X = A + \underbrace{\xi_f(x-A)}$
= 3 + 13
10
= 4.3  Ans
* Continuous Sories!
C.J. $f \propto x - A f(x-A)$
0-10 3 5 $-10$ $-30$ $10-20$ 1 $(25)=A$ 0 0
20-30 2 25 10 20 30-40 4 35 20 80
$\mathcal{E}_{1} = 0 \qquad \qquad \mathcal{E}_{1}(\mathbf{x} - \mathbf{A}) = 7$

$$X = A + 28(x-A)$$

$$= 15 + 70$$

$$= 15 + 7$$

$$= 22 \text{ Ans}$$
\* Step Deviation method!

Continuous Sexies!

$$C.T. f \propto (x-A) d'= dlii d'f$$

$$0-10 3 5 - 10 - 10 + 10 - 10 - 10$$

$$20-30 2 25 10 40 + 10 - 10$$

$$20-30 2 25 10 40 + 10 - 10$$

$$20-30 2 25 10 40 + 10 - 10$$

$$21-30 4 35 20 20 10 = 2 8$$

$$21-30 4 35 20 20 10 = 2 8$$

$$21-30 4 35 20 20 10 = 2 8$$

$$21-30 4 35 20 20 10 = 2 8$$

$$21-30 4 35 20 20 10 = 2 8$$

$$21-30 4 35 20 20 10 = 2 8$$

$$21-30 4 35 20 20 10 = 2 8$$

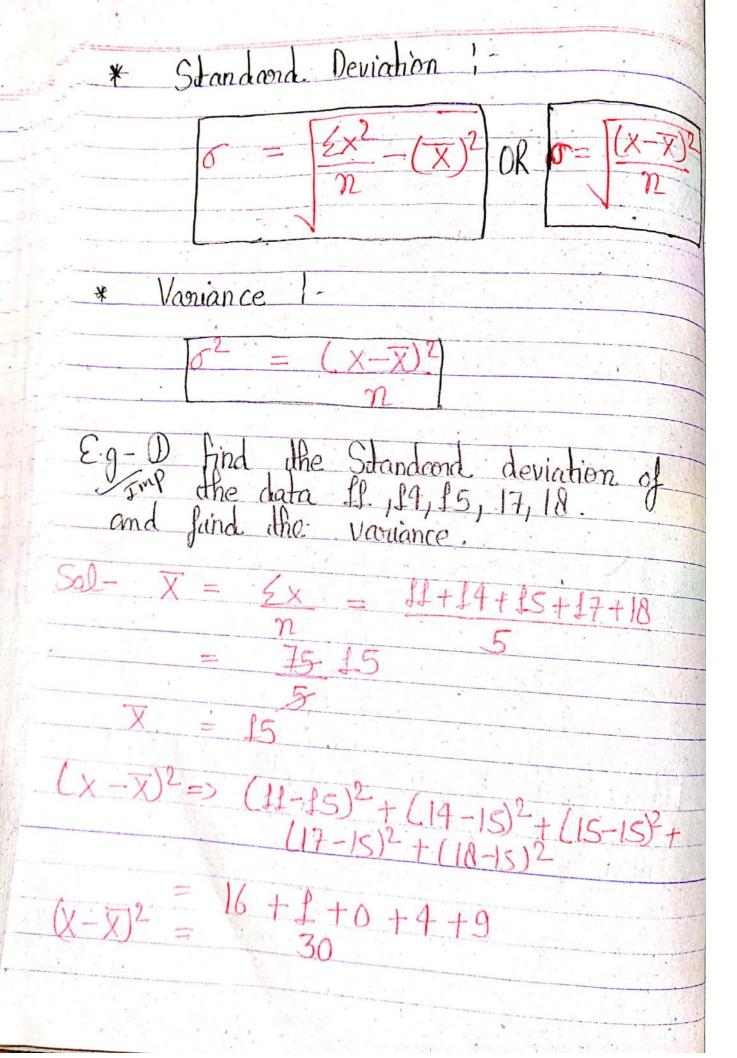
1					
* Med	lian (	middle mo	Bit	Value	) \-
E.9-D TI	odividuo	l Series	1,2	- 14	
. 1	· · · · · · · · · · · · · · · · · · ·	5000			
<u> </u>	2	Assange	=>	<b>X</b>	4
8	}	0		2	
	7			3	
	3			7	
	2			8	
	15			15	
	£7		*	17_	n - 7
•	20		-	20	11=+
	121	101		,	
	1 2	) the term			
	7+1	- 84	=	4.12	term
	12	2	h /.	r la i	
	m	edian = 8	Ac		
					1. 3. 1
E.g - 2)	$\propto$		2c1		
	3	,	3		
	9		7		<u>Kayala</u>
	11	1 / 1	0		17 1 2 2 10
	8	The state of the s	9		
	15		11	n =	= 6
	7		15		In Low
m+	1) th	teim =>		6+1	= 3.5th tear
	4)			4	
	to Table				

= 3 ord down + .5 (4dh down - 3th down)
8 + ·5 (9-8)
= 8.5 Au
- 0.2 Mg
* Disconente Series!
E-9-D
2 f d F C.F.
8 3 7 7
7 2 7 2
9 5 8 3
7 9 5 21
3 Il 3 24
n=2/=24
$= \langle n+1 \rangle$ the training
= 2 th denm
= 24+1 12-121
$=\frac{24+1}{2}=12.5 dh denm$
Median = 7 Ans
E.gD x f x' [1
x f $x'$ f! C.E.
3 4 4
$q \neq \frac{7}{2} \qquad \qquad 2 \qquad \qquad 6$
$\frac{1}{1}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{3}{6}$ $\frac{9}{6}$
4 4 11 - 7 19
. 20
A Disposition of the Control of the

£f= 20 10.5 th team Series! Continuous 术 3 = Cfp 20-30 30-40 the tom Median

$= 10 + 5 - 3 \times 10$
$= \begin{cases} 10 + 2 \\ 12 \end{cases}$
* Mode / Model  - No with highest forequency  E.g. D. 5, 2, 4, 5, 6, 5  Mode = 5 Ans
Eig-Discorette Series!
10 3 9 2 7 5
Highest Josephency is Is and the
mode is 15 Ag

		1
Continuous Series!		
the state of the state of the state of the state of	,	
C'I, $F$		
0-10 4	<u></u>	
$10-20$ $7 \rightarrow 60$		
(20-30 9) > SL	· 3.).	
30-40 2-12		
40-50 1		
Mode = d + li-so xi		
21-60-12		
		-
$= 20 + 9 - 7 \times 10$	1	
2x9-7-2	3 3	1
$= 20 + 2 \times 10$		
9		
= 20 + 20	<u> </u>	12.73
<u> </u>		•
= 20 + 2.2		
= 22.2 As		1
Relationship Between Mean, Media	in 8 ma	de!
Mode = 3 Median - 2 Mean		. 4
	1 1 12	
	15	15.00



306 laviance Kall Peanson's Coefficient of Cornelation! E.g. D Calculate the coonelation coefficient strip between the following data:

[x 5 9 13 , 17 21]
y 12 20 25 33 35
Sd-X = 5+9+13+17+21
5
= 65 = 13 $= 5$
Y = 12 + 20 + 25 + 33 + 35
5
= 125 = 25
Let $X = (X - \overline{X})$ and $Y = (Y - \overline{Y})$
$x = (x-13)$ $x^2 = (x-13)^2$ $y = (y-25)$
$\frac{3}{9}$ $\frac{-8}{-4}$ $\frac{64}{16}$ $\frac{12}{12}$ $\frac{-13}{12}$
13 0 0 25 0
21 8 16 33 8
$y^2 = (y-25)^2$ $\{x^2 =  60\}$ $\{y^2 = 358\}$
$y^2 = (y-25)^2$ $2x = 160$ $2y = 0$ $2x^2 = 358$
2.5
64
32
80 EXY = 236

160 x 358 speciman's Rank Carrielation -D Obitain the sank coomelation coefficient for the following:

- Salarana and American					
Sal-x	y	x = x'	y=y'.	d=x'-y'	75
83	62	4	5		q
69 75	58	6		-1	P
50	68	2.5	3:5		1
64	81		10	<u>-L</u>	
80	60			5	25
75	68	2.5	0	-5	25
40	9-8	10	3.5	-1	1
55	50	0	2		1
64.	70	6	2	0	0
		0		4	16
2	EXY		•	. 2	2=71
	WAN	.07)			
	1(Str) (S	79			
9 -	A				
· OL =		65/2			
		$n(n^2)$		1 141	
= ,	0				71,
		6.X72	1		
	1 101	10(100		7	7
	K.			93	2
	1 -	990		1000	0
		991			
=	990	4		1	
	9	90			
	50	8	0.56	Λ	100
	90	0	0.26	drig	
			The second secon		

* Regne	284 cm
(1-6) x	
Smp	15 <u>f</u> 225 <u>f</u> 5
7 m - 100	521
,	7 23 49 529 161
	9 22 81 484 198
$\xi x = \frac{1}{2}$	25 Ey=99 Ex=165 Ey=2003 Exy=533
X	255 = 5
Augusta in the state of the	S. T.
¥ =	99 = 19.8
V	5
Byoc =	$n \times xy - \times x \times y$
V	n 222 - (2002-
	5×533 - 25×99
	5x165 - (2s)2
	265 - 2975
1	025-625
2	-190 = 0.95
	.200
	7

Regnession line 
$$y$$
 on  $x$ !

 $(y-\overline{y}) = byx (x-\overline{x})$ 
 $(y-19.8) = 0.95 (x-5)$ 
 $(y-19.8) = 0.95x - 4.75$ 
 $y-0.95x = -4.75 + 19.8$ 
 $y-0.95x = 15.05$ 
 $y = 0.95x + 15.05$ 
 $y$