1	Ex: Calculate standard demiation from the									
	Collowing.	colso (ind coefficient of standord deciration.							
	Marks	No. 9	students	1	7:	Advel 1				
	4.5-12.5	31-	4			301-51				
	12,3-20.5	24-	29	100		8.73F 8.81				
	20.5-28.5	542	21	10						
7	28.5-36.5	2	18			3.58 - 2.58				
	36.5-44.5		5			2.58 - 2.55				
	44.5-52.5	0	3							
-	52.5-60.5	8	5	3	48.5	44.5-225				
-	60.5-68.5	01	8	TE !	2.32	12/2-2-12/1				
-	68.5-76.5	2.4	2			62.5 -63.5				

The Capacity	1018	P William	gue	2-40.3	in the second second
Marks	2i	f	u= 2-a	fu	fu ²
4.5-12.5	8.5	4	-4	-16	64.
12.5-20,5	16.5	24	-3	-72	216
20.5-28.5	24.5	21	-2	-42	84
28.5-36.5	32.5	18	-1	-18	.18
36.5-44,5	40.5	5	08	0	5-02.
44.5-52.5	48.5	3	118	3	3.6
52.5-60.5	56.5	5	2	10	20
60.5-68.5	64.5	8	3	24	7-2
68.5-76.5	72.5	2	4	8	32
		2 fu 2 -103	£ fu ² = 509		

5 fuz 7103 5 fu2 = 509 1290 and in more fred works Hene, Nean = a+h & fu = 40.5 + 8x(-103) 2 31.35 - Convect formula $\frac{28}{90} \times 509 - \left(\frac{-103}{90}\right)^{2}$ M2 = 5 (4-7) = Edi 216.68

1) Harrients about mean (14) for undividual series Moments about mean ies defined as $Mr^2 \leq (n-\pi)^r \geq \leq d^r$, $d=n-\pi$ For re 0, 1, 2, 3, 4 $M_0 = \frac{2d^2}{n} = \frac{21}{n} = \frac{n}{n} = 1$ $M_{12} \leq (n-\pi)_{20}$, for symmetrical distribution M2 = 3 (x-x) = 5d2 For continuous or discrete series gth moment is defined as Mg= \(\frac{\(\pi - \overline{\pi} \)}{\(\pi - \overline{\pi} \)}, \(N = \(\lefta + \overline{\pi} \) everyptinit (Rylques Cett us

Hene, alsa, No=1 Moments about any paint (pe'r) of the moment about any point is defined as $M_{\Upsilon}^2 \ge f(\alpha - A)^2$ Azany paint Herre, Mo = 1 It o'mament about any point is always). NO 21

Relation between moments about men

cir terms of moments about any point

(Symanetrical distribution)

M1 = 0, M2 = M2'-(47)²

