

(1

Type of cumulative Frequency (C.f.) 21-1 Less than c.f.: It is obtained by adding successively the frequencies of all the previous classes, including the frequency of the class. 2 greater than (.f.: (More than e.f.): It is obtained by adding successively the frequencies of all the succeeding classes, including the frequency of the class. Construct less than & merethan C. Les of follows greater flan cess Han NO of C.f. c.f families Interval + addition 50+80+40+ - +15710F 50 0-500 50 succeeding 50+80=130 80 BO+40 +-+5=9.00 500 -1000 130+40=170 1000-1500 40 120 170 +28= 195 80 25

500 - 1000 80 130 + 40 = 130 120 120 1500 - 2000 25 170 + 28 = 195 80 2000 - 2800 25 195 + 95 = 220 85 2000 - 2800 15 220 + 15 = 235 30 3000 - 40000 10 10 137 + 10 = 247 5 147 + 5 = 150

weeklt wage (< in Rs)	No of courses	prectely was o	No otaens T	ltiss Han	
220	41	0 - 20	41	41	201
240	92	20-40	92-41=51	92	(60
260	156	156-12	156 4 -92=64	156	109
< 80	194	60 - 80	194-156=38	194	45
<100	201	80 - 100	201-194=7	201	7
				co f	-

		(create)	Tchanged	= fo	0	calculate > e <
capital	1 f	class	Begyeng	less l	greater	Crt
(Links)	1 1	Interval	f.	Cof-	C-f.	
< 5	20	0-5	20	20	53 -	20 fail subsequen
< 10	27	5-10	20-27=7	27	33 -	7+2+9+10+5
215	29	10-15	27-29=2	27+2=29	26 -	7 2+9+10+7
<20	38	15-20	29-38=9	38	24	9+10+5
40.00	1. 0	20-25	38-48=10	48	15	
<30	53	25-30	48-53=5	53	5	

eg	Martes (>)	No of Students	class Interval	changed free	greater tlan C-F-	
	. >0	60	0-10	60-56=4	60 -	addition of all
	>10	56	10-20	56-40=16	56	- 16+ succeding all fr
	>26	40	20-30	40-20-20	40	t
	> 30	20	30-40	20-10=10	20	
	>40	10	40-50	10-13=7	10	
	>50	03	50-60	3	3	

Important:

Note one change in formula of median while working with continuous data of the type more than or greater than.

Median =
$$u - \frac{N}{2} - c \cdot f \times i$$

celere u = upper limit of median class f = frequency of the median class i = width of the median class c.f = c.f of the class succeedingof the median class.

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series with less ev is known as more consistent.