χ	+	fx	12-14/	f/x-14/	7
5	7	35	9	63	
10	4	40	4	16	
15	6	90	1	6	
20	3	60	6	18	
25	5	125	11	55	
	Zf=25	2fx=350		2f x-141=	158

$$\bar{X} = \frac{\sum f_{7}}{\sum f} = \frac{350}{25} = 14$$

$$M \cdot D = \frac{1}{N} \leq f(x - x)$$

$$= \frac{1}{25} (152)$$

×	+	C.F	2-30	f [x-30]
15	3	3	15	45
21	5	8	9	45
27	6	14	3	18
30	7	(21)	Ò	0
35	8	29	5	40
	N=29			2 + x-30 =

$$M \cdot D = \frac{1}{\lambda_1} \left[\frac{2f}{x} - M \cdot dulm \right]$$

$$= \frac{1}{29} \times 148$$

$$M \cdot D = 5 \cdot 1 \left(\frac{Apprex}{Apprex} \right) Ans$$

Qui: 3 + 36, 72, 46, 42, 53, 60, 45, 51, 49

Fint always in Ascender order

36, 42, 45, 46, 49, 51, 53, 60, 72

how
$$n=9$$

Media= $\left(\frac{n+1}{2}\right)^{\frac{1}{2}} = \left(\frac{9+1}{2}\right)^{\frac{1}{2}} = 5^{\frac{1}{2}}$ observation

if $M \cdot (dran = 49)$

X	124-491	1
36	13	M.D- 7 2
42	7	
45	4	
46	3	1
79	٥	M-D = 7.
51	2	
53	4	(xlore: Musper
60	11	
72	23	
	2/7-49]	
	-67	

 $M \cdot D = \frac{1}{h} \leq |x - M \cdot dun|$ $= \frac{1}{4} (67)$ $M \cdot D = 7 \cdot 44 \text{ Approx}$ Mergent in waterhead

Mispint in workshess , Answer)

A. A.	1			•	•	
ON'Y C.I	+	X	d'	fd'	X-125-3]	f x-125.3
95-105	9.	100	-3	-27	25.3	227.7
105-115	13	110	-2	-26	15.3	198.9
115-125	26	120	-1	-26	5.3	137.8
125-135	30	(30)	0	0	4.7	141
135-145	12	140	,	12	14-7	176-4
145-155	10	150	2	20	24.7	247
-	St=100					277
	, 155			-47		1128-8

Mean=
$$a + \frac{f}{f} \frac{d^{1}}{d^{2}} \times h$$

= $130 + (-\frac{47}{100}) \times 10^{10}$

= $130 - 4.7$

= 125.3

Non Min $\frac{1}{N} = \frac{27}{N} - Mean$

= $\frac{1}{100} \times (1128.8)$
 $\frac{1}{100} = \frac{1}{100} \times 100$

	-					
QM. 5	(.I	7	CF	χ	X-27-9	1 71 -274
	0-10	6	6	5	22.9	137-4
	10-20	8	14	15	12-9	103.2
	20 - 30	14	(28)	25	2-9	40-6
	30-40	16	44	35	7.1	113-6
e de la companya de l	40-50	y	48	45	17-1	68.4
	50-60	2	50	55	27-1	54.2
		N=50				517.4
				19.		

$$\frac{N}{2} = 25 \rightarrow 50 \text{ fo } CF + 1460$$

$$f = 14; \quad I = 20; \quad (F = 14; \quad h = 10)$$

$$Mcolon = 1 + (N - (F) \times h) = 20 + (25 - 14) \times 10$$

$$= 20 + 7 \cdot 86$$

$$= 27 \cdot 86$$

$$= 27 \cdot 86$$

$$= 27 \cdot 86$$

$$= 27 \cdot 86$$

$$= 10 \cdot 27 \cdot 9 \quad (Apprex)$$

$$M \cdot D = \frac{1}{12} \times (517 \cdot 4)$$

$$= 10 \cdot 34 \quad (Apprex) \quad Any$$

On 6					
す。こで、こ	+	X	d'	1 d'	f d'2
· 70-75	3	7-2-5	-4	-12	48
75-80	4	77-5	-3	-12	
80-85	7	82.5	-2	-111	56
85-90	7	87-5			28
90-95	15	(92.5)	0	-7	7
95-100	9	97-5	1	0	0
100-105	6	102.5	2	1 2	9
105-110	6	107-5		12	24
	_	112.5	3	18	54
110-115	3	1		12	48
	2f=60			5 fd = 6	2 fd"- 254

Mean=
$$a + \left(\frac{\xi f d'}{\xi f}\right) \times h$$

= $92.5 + \left(\frac{6}{60}\right) \times 5$
= $92.5 + 0.5$
Mean= 93
Varience = $h^2 \left(\frac{1}{h} \xi f d'^2 - \left(\frac{1}{h} \xi f d'\right)^2\right)$
= $25 \left(\frac{1}{60} \times 254 - \left(\frac{1}{60} \times 6\right)^2\right)$
= $27 \left(\frac{1270-3}{300}\right) = 27 \times \frac{1267}{300/2} = \frac{105.5}{300/2}$

Q N.7 100	4	~ 1	. 1 1	1 1	112	1
	1		d'	7 0	4d'	-
32.5-36-5	15	34.5	-2	-,30	60	
36.5-40.5	17	38.5	-1	-17	17	
40-5-44.5	21	42.5	0	0	0	
44.5-48.5	22	46.5)	22	22	
48.5-52.5	2,5	20-2	2 .	50	100	
	27 = 101			5fa=25	2 fd'2=	199

$$10 = \frac{2nc \cdot 2x}{20}$$

care I when levery item explaced by 12

Comet Mean=
$$\frac{\text{Cornet }\Sigma_X}{n} = \frac{209}{20} = 10.2$$

Can 2 when wary item to ammitted

Inc. Valionale In Inc. Ex2 - (Inc. Mem)2 4 = 10 Inc. \(\frac{2}{x^2} - (10)^2 =1 104 = 1 Inc Ex2 - Inc Ex2 = 2080 when wany item is leptour by 12 Coller = x2= 2080 - 84 + 144 Comer Valion Ce = (2160) - (Comer Mem)2 108 - (10-2)2 = 3.96 Callee1. 5.0= \square 3.96 = 1.98 Cours. 20=1.08 Casz When Wang & item is ammitted Calle. 5x2= 2080-64 = 2016 Come: voliana = 1/4 (2018) - (10.1)2 -- 106.1 - 102.07

50 = 54.09 = 2.02 Am

= 4.09