

(iv) A market survey on Demand of Morden Bread at a Shop in a locality provided the following distribution of daily Demand

X	f	fx	
12	36	432	$\bar{X} = \frac{7576}{370}$ $= 19.935$ $= 19.94$ Avg (13 heads)
17	160	2720	
21	92	1932	
27	56	1512	
30	26	780	
	$\Sigma f = 370$	$\Sigma fx = 7576$	

continious series

Q.9.	C-I	f	<del>x</del>	fx	
	0-10	12	5	60	$\bar{X} = \frac{\Sigma fx}{\Sigma f}$ $= \frac{1135}{51}$ $= 22.25$
	10-20	10	15	150	
	20-30	15	25	375	
	30-40	8	35	280	
	40-50	6	45	270	
		$\Sigma f = 51$	<del><math>\Sigma f = 122</math></del>	$\Sigma fx = 1135$	

Q.A. Find mean from following data.

C-I	F	X	Fx
10-20	15	15	225
20-30	18	25	450
30-40	27	35	945
40-50	14	45	630
50-60	9	55	495
60-70	7	65	455

$\Sigma F = 90$

$\Sigma Fx = 3200$

$\bar{X} = \frac{\Sigma Fx}{\Sigma F}$

$= \frac{3200}{90}$

$= 35.5 \text{ Ans.}$

Q.B

C-I (G)	C-I (E)	F	X	Fx
0-4	2-4.5	12	2	24
5-9	4.5-9.5	17	7	119
10-14	9.5-14.5	38	12	456
15-19	14.5-19.5	18	17	306
20-24	19.5-24.5	8	22	176
25-29	24.5-29.5	2	27	54

$\Sigma F = 95$

$\Sigma Fx = 1135$

$\bar{X} = \frac{\Sigma Fx}{\Sigma F}$

$= \frac{1135}{95}$

$= 11.95 \text{ Ans.}$

Q.12	C-I	F	X	FX	
	8-14	30	11	330	$\bar{x} = \frac{\sum FX}{\sum F}$ $= \frac{1935}{105}$ $= \frac{387}{21}$ $= \frac{129}{7} = 18.428$
	14-20	40	17	680	
	20-26	20	23	460	
	26-32	10	29	290	
	32-38	5	35	175	
		$\sum F = 105$		$\sum FX = 1935$	

Q.12(A)	C-I (F)	C-I (U)	F	X	U = X - A	FU
	18-22	17.5-22.5	18	20	-15	-210
	23-27	22.5-27.5	20	25	-10	-280
	28-32	27.5-32.5	33	30	-5	-165
	33-37	32.5-37.5	30	35	0	0
	38-42	37.5-42.5	20	40	5	100
	43-47	42.5-47.5	15	45	10	150
	48-52	47.5-52.5	13	50	15	195
	53-57	52.5-57.5	7	55	20	140
			$\sum F = 160$			$\sum FU = -70$

Let,  $A = 35, u = x - A$