Q.6 calculate mean of the following data.

$$\bar{X} = \frac{96 + 180 + 98 + 75 + 270 + 80 + 102 + 100 + 94 + 75 + 120}{12}$$

$$= \frac{1980}{12} = 165 \text{ Ans.}$$

Discrete Series

Q.7. From the following frequency distribution find out mean height of the students.

f	x	fx
5	160	800
10	162	1620
15	164	2460
30	166	4980
25	168	4200
10	170	1700
5	172	860
$\Sigma f = 100$		16620

$$\bar{X} = \frac{16620}{100}$$

$$= 166.20 \text{ cm Ans.}$$

(ii)

x	f	fx
4	15	60
5	10	150
6	45	270
7	60	420
8	55	440
9	40	360
10	5	50
	$\Sigma f = 250$	$\Sigma fx = 1750$

$\bar{X} = \frac{\Sigma fx}{\Sigma f}$

$= \frac{1750}{250}$

$= 7$ Ans.

8. (i) Student of a school contributed towards National Defence

f	x	fx
10	5	50
15	4	60
24	3	72
30	2	60
21	1	21
$\Sigma f = 100$		$\Sigma fx = 263$

$\bar{X} = \frac{\Sigma fx}{\Sigma f}$

$= \frac{263}{100}$

$= 2.63$ Rs. Ans.

(ii) Below are the number of children of a certain locality

X	f	fx
8	1	8
7	2	14
6	6	36
5	8	40
4	20	80
3	38	114
2	60	120
1	60	60
Found as follows 0	35	0
	$\Sigma f = 230$	$\Sigma fx = 472$

$\bar{X} = \frac{472}{230}$

$= 2.05$ Ans.

(iii) calculate the mean number of accident per drivers from the Following

X	f	fx
0	45	0
1	36	36
2	40	80
3	19	57
4	12	48
5	8	40
6	3	18
7	2	14
8	1	8
	$\Sigma f = 166$	$\Sigma fx = 301$

$\bar{X} = \frac{301}{166}$

$= 1.81$ Ans.