

ACTIVITY – 09

: UNIT :

STATISTICS

ACTIVITY :

- 1) FIND OUT THE MEAN, MEDIAN AND MODE FOR THE GIVEN DATA.
- 2) DRAW OGIVE LESS THAN TYPE AND MORE THAN TYPE FOR THE GIVEN DATA.

CHECK LIST	MAXIMUM MARKS	MARKS	(OBJECTIVES) PARAMETERS
1) FIND THE MEAN	9		1) VERY GOOD (40 Marks)
2) FIND THE MEDIAN	9		
3) FIND THE MODE.	9		2) GOOD (40 - 30 Marks)
4) FIND THE MEAN, MEDIAN AND MODE FOR THE GIVEN DATA	9		3) OK (30 – 20 Marks)
5) OVERALL IMPRESSION	3		4) IMPROVE IT (LESS THAN 20 Marks)
TOTAL MARKS : 40			

1A. Find the mean for the following distribution table

C - I	f_i	x_i	$f_i x_i$
0 - 2	1		
2 - 4	2		
4 - 6	1		
6 - 8	5		
8 - 10	6		
10 - 12	2		
12 - 14	3		
$\Sigma f_i =$		$\Sigma f_i x_i =$	

$$\text{Mean} = \bar{X} = \frac{\Sigma f_i x_i}{\Sigma f_i}$$

1B. Find the mean for the following distribution table

C - I	f_i	x_i	$f_i x_i$
15 - 25	6		
25 - 35	11		
35 - 45	7		
45 - 55	4		
55 - 65	4		
65 - 75	2		
75 - 85	1		
$\Sigma f_i =$		$\Sigma f_i x_i =$	

$$\text{Mean} = \bar{X} = \frac{\Sigma f_i x_i}{\Sigma f_i}$$

1C. Find the mean for the following distribution table

C - I	f_i	x_i	f_i x_i
11 - 13	7		
13 – 15	6		
15 – 17	9		
17 – 19	13		
19 – 21	20		
21 – 23	5		
23 - 25	4		
Σf_i =		Σf_i x_i =	

$$\text{Mean} = \bar{X} = \frac{\sum f_i x_i}{\sum f_i}$$

2A. Find the median for the following distribution table

C - I	f	cf
30 – 35	14	
35 – 40	16	
40 – 45	18	
45 – 50	23	
50 – 55	18	
55 – 60	08	
60 – 65	03	
n =	F= G	

2B. Find the median for the following distribution table

C - I	f	cf
0 – 20	6	
20 – 40	8	
40 – 60	10	
60 – 80	12	
80 – 100	6	
100 – 120	5	
120 – 140	3	
n =	F = G	

C - I	f	cf
0 – 10	5	
10 – 20	8	
20 – 30	20	
30 – 40	15	
40 – 50	7	
50 – 60	5	
n =	F = G	

03. Find the mode for the following distribution table.

C - I	f	
0 – 20	10	
20 – 40	35	
40 – 60	52	→ f_0
60 – 80	61	→ f_1
80 – 100	38	→ f_2
100 – 120	29	

C - I	f	
0 – 10	7	
10 – 20	14	
20 – 30	13	
30 – 40	12	→ f_0
40 – 50	20	→ f_1
50 – 60	11	→ f_2
60 – 70	15	
70 – 80	8	

C - I	f	
10 – 25	2	
25 – 40	3	→ f_0
40 – 55	7	→ f_1
55 – 70	6	→ f_2
70 – 85	6	
85 – 100	6	

04. Find the mean, median and mode for the following distribution table.

C - I	f_i	x_i	$f_i x_i$
0 - 10	7		
10 - 20	10		
20 - 30	23		
30 - 40	51		
40 - 50	6		
50 - 60	3		
$\sum f_i =$		$\sum f_i x_i =$	

$$\text{Mean} = \bar{X} = \frac{\sum f_i x_i}{\sum f_i}$$

C - I	f	cf
0 - 10	7	
10 - 20	10	
20 - 30	23	
30 - 40	51	
40 - 50	6	
50 - 60	3	
n =	$\frac{n}{2} =$	

$$\text{Median} = \ell + \left[\frac{\frac{n}{2} - cf}{f} \right] \times h$$

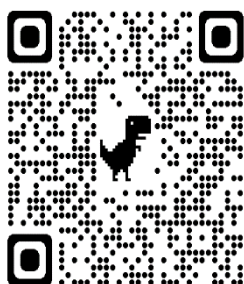
C - I	f	
0 - 10	7	
10 - 20	10	
20 - 30	23	$\rightarrow f_0$
30 - 40	51	$\rightarrow f_1$
40 - 50	6	$\rightarrow f_2$
50 - 60	3	

$$\text{Mode} = \ell + \left[\frac{f_1 - f_0}{2f_1 - f_0 - f_2} \right] \times h$$

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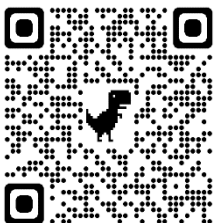


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THANKS