



Construct a frequency distribution table from the following cumulative frequency distribution

1.

Class-Interval	Cumulative Frequency
24 - 31	14
32 - 39	21
40 - 47	32
48 - 55	44
56 - 63	54
64 - 71	68
72 - 79	83
80 - 87	99

(i)

Class-Interval	24 - 31	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87
Frequency	14	16	11	12	10	14	15	7

(ii)

Class-Interval	24 - 31	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87
Frequency	14	7	12	11	10	14	15	16

(iii)

Class-Interval	24 - 31	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87
Frequency	14	7	9	12	10	14	15	16

(iv)

Class-Interval	24 - 31	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87
Frequency	14	7	11	12	13	14	15	16

(v)

Class-Interval	24 - 31	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79	80 - 87
Frequency	14	7	11	12	10	14	15	16

Construct a frequency distribution table from the following cumulative frequency distribution

2.

Class-Interval	Cumulative Frequency
18 - 24	5
24 - 30	11
30 - 36	18
36 - 42	30
42 - 48	44
48 - 54	55
54 - 60	66

(i)

Class-Interval	18 - 24	24 - 30	30 - 36	36 - 42	42 - 48	48 - 54	54 - 60
Frequency	5	6	2	12	14	11	11

(ii)

Class-Interval	18 - 24	24 - 30	30 - 36	36 - 42	42 - 48	48 - 54	54 - 60
Frequency	5	7	6	12	14	11	11

(iii)

Class-Interval	18 - 24	24 - 30	30 - 36	36 - 42	42 - 48	48 - 54	54 - 60
Frequency	5	6	7	12	14	11	11

(iv)

Class-Interval	18 - 24	24 - 30	30 - 36	36 - 42	42 - 48	48 - 54	54 - 60
Frequency	5	11	7	12	14	11	6

(v)

Class-Interval	18 - 24	24 - 30	30 - 36	36 - 42	42 - 48	48 - 54	54 - 60
Frequency	5	6	7	7	14	11	11

Following are the ages (in years) of patients getting medical treatment in a hospital. Identify the cumulative frequency of the given grouped data.

3.

Age (in years)	10 - 20	21 - 31	32 - 42	43 - 53
No. of Patients	88	52	30	79

(i)

Age (in years)	Cumulative Frequency
10 - 20	79
21 - 31	131
32 - 42	161
43 - 53	249

(ii)

Age (in years)	Cumulative Frequency
10 - 20	88
21 - 31	145
32 - 42	175
43 - 53	254

(iii)

Age (in years)	Cumulative Frequency
10 - 20	88
21 - 31	140
32 - 42	166
43 - 53	245

(iv)

Age (in years)	Cumulative Frequency
10 - 20	88
21 - 31	140
32 - 42	170
43 - 53	249

(v)

Age (in years)	Cumulative Frequency
10 - 20	88
21 - 31	118
32 - 42	170
43 - 53	249

Following are the ages (in years) of patients getting medical treatment in a hospital. Identify the cumulative frequency of the given grouped data.

4.

Age (in years)	10 - 15	15 - 20	20 - 25	25 - 30
No. of Patients	14	65	74	74

(i)

Age (in years)	Cumulative Frequency
10 - 15	14
15 - 20	79
20 - 25	153
25 - 30	227

(ii)

Age (in years)	Cumulative Frequency
10 - 15	74
15 - 20	139
20 - 25	213
25 - 30	227

(iii)

Age (in years)	Cumulative Frequency
10 - 15	14
15 - 20	79
20 - 25	151
25 - 30	225

(iv)

Age (in years)	Cumulative Frequency
10 - 15	14
15 - 20	88
20 - 25	153
25 - 30	227

(v)

Age (in years)	Cumulative Frequency
10 - 15	14
15 - 20	81
20 - 25	155
25 - 30	229

Following are the daily wages (in rupees) of labourers working in a factory. Identify the cumulative frequency of the given grouped data.

5.

Wages (in rupees)	200 - 230	231 - 261	262 - 292	293 - 323	324 - 354	355 - 385
Labourers	10	12	9	10	17	4

(i)

Wages (in rupees)	Cumulative Frequency
200 - 230	10
231 - 261	22
262 - 292	31
293 - 323	37
324 - 354	54
355 - 385	58

(ii)

Wages (in rupees)	Cumulative Frequency
200 - 230	10
231 - 261	22
262 - 292	31
293 - 323	41
324 - 354	58
355 - 385	62

(iii)

Wages (in rupees)	Cumulative Frequency
200 - 230	10
231 - 261	19
262 - 292	31
293 - 323	41
324 - 354	58
355 - 385	62

(iv)

Wages (in rupees)	Cumulative Frequency
200 - 230	10
231 - 261	22
262 - 292	26
293 - 323	36
324 - 354	53
355 - 385	57

(v)

Wages (in rupees)	Cumulative Frequency
200 - 230	10
231 - 261	14
262 - 292	23
293 - 323	33
324 - 354	50
355 - 385	62

Following are the daily wages (in rupees) of labourers working in a factory. Identify the cumulative frequency of the given grouped data.

6.

Wages (in rupees)	300 - 330	330 - 360	360 - 390	390 - 420	420 - 450	450 - 480
Labourers	9	10	13	17	16	5

(i)

Wages (in rupees)	Cumulative Frequency
300 - 330	9
330 - 360	14
360 - 390	27
390 - 420	44
420 - 450	60
450 - 480	70

(ii)

Wages (in rupees)	Cumulative Frequency
300 - 330	9
330 - 360	19
360 - 390	32
390 - 420	49
420 - 450	65
450 - 480	70

(iii)

Wages (in rupees)	Cumulative Frequency
300 - 330	9
330 - 360	19
360 - 390	32
390 - 420	51
420 - 450	67
450 - 480	72

(iv)

Wages (in rupees)	Cumulative Frequency
300 - 330	9
330 - 360	19
360 - 390	36
390 - 420	53
420 - 450	69
450 - 480	74

(v)

Wages (in rupees)	Cumulative Frequency
300 - 330	9
330 - 360	22
360 - 390	32
390 - 420	49
420 - 450	65
450 - 480	70

Identify the cumulative frequency of the given grouped data.

7.	class interval	11 - 21	22 - 32	33 - 43	44 - 54	55 - 65	66 - 76
	frequency	8	23	24	19	7	5

(i)

class interval	Cumulative Frequency
11 - 21	8
22 - 32	13
33 - 43	37
44 - 54	56
55 - 65	63
66 - 76	86

(ii)

class interval	Cumulative Frequency
11 - 21	8
22 - 32	31
33 - 43	58
44 - 54	77
55 - 65	84
66 - 76	89

(iii)

class interval	Cumulative Frequency
11 - 21	8
22 - 32	31
33 - 43	55
44 - 54	74
55 - 65	81
66 - 76	86

(iv)

class interval	Cumulative Frequency
11 - 21	8
22 - 32	32
33 - 43	55
44 - 54	74
55 - 65	81
66 - 76	86

(v)

class interval	Cumulative Frequency
11 - 21	8
22 - 32	31
33 - 43	55
44 - 54	79
55 - 65	86
66 - 76	91

Identify the cumulative frequency of the given grouped data.

8.	class interval	43 - 50	50 - 57	57 - 64	64 - 71	71 - 78	78 - 85	85 - 92
	frequency	21	6	15	6	9	23	15

(i)

class interval	Cumulative Frequency
43 - 50	21
50 - 57	27
57 - 64	42
64 - 71	48
71 - 78	57
78 - 85	80
85 - 92	95

(ii)

class interval	Cumulative Frequency
43 - 50	21
50 - 57	36
57 - 64	42
64 - 71	48
71 - 78	57
78 - 85	80
85 - 92	95

(iii)

class interval	Cumulative Frequency
43 - 50	21
50 - 57	27
57 - 64	46
64 - 71	52
71 - 78	61
78 - 85	84
85 - 92	99

(iv)

class interval	Cumulative Frequency
43 - 50	21
50 - 57	27
57 - 64	42
64 - 71	52
71 - 78	61
78 - 85	84
85 - 92	99

(v)

class interval	Cumulative Frequency
43 - 50	21
50 - 57	36
57 - 64	51
64 - 71	57
71 - 78	66
78 - 85	89
85 - 92	95

Find the cumulative frequency of class 69-76 .

9.	Class-Interval	45 - 52	53 - 60	61 - 68	69 - 76	77 - 84	85 - 92
	Frequency	16	23	22	12	9	6

(i) 73 (ii) 71 (iii) 72 (iv) 74 (v) 76

Find the cumulative frequency of class 95-104 .

10.	Class-Interval	50 - 59	59 - 68	68 - 77	77 - 86	86 - 95	95 - 104
	Frequency	11	25	23	13	20	10

(i) 102 (ii) 100 (iii) 105 (iv) 103 (v) 101

The following cumulative frequency table represents which of the following frequency distribution

11.

Class-Interval	Cumulative Frequency
13 - 18	7
18 - 23	22
23 - 28	29
28 - 33	37
33 - 38	44
38 - 43	56

(i)

Class-Interval	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	7	15	5	8	7	12

(ii)

Class-Interval	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	7	7	15	8	7	12

(iii)

Class-Interval	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	7	15	7	5	7	12

(iv)

Class-Interval	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	7	12	7	8	7	15

(v)

Class-Interval	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	7	15	7	8	7	12

The following cumulative frequency table represents which of the following frequency distribution

12.

Class-Interval	Cumulative Frequency
31 - 40	61
40 - 49	52
49 - 58	46
58 - 67	37
67 - 76	26
76 - 85	17
85 - 94	6

(i)

Class-Interval	31 - 40	40 - 49	49 - 58	58 - 67	67 - 76	76 - 85	85 - 94
Frequency	9	6	9	13	9	11	6

(ii)

Class-Interval	31 - 40	40 - 49	49 - 58	58 - 67	67 - 76	76 - 85	85 - 94
Frequency	9	6	6	11	9	11	6

(iii)

Class-Interval	31 - 40	40 - 49	49 - 58	58 - 67	67 - 76	76 - 85	85 - 94
Frequency	9	9	6	11	9	11	6

(iv)

Class-Interval	31 - 40	40 - 49	49 - 58	58 - 67	67 - 76	76 - 85	85 - 94
Frequency	9	6	9	11	9	11	6

During the medical check-up of 71 students of a class, their weights in kgs are recorded as follows. Identify the number of students whose weight is less than 50 kg

13.

Class-Interval	36 - 43	43 - 50	50 - 57	57 - 64	64 - 71	71 - 78	78 - 85	85 - 92
Frequency	11	10	5	8	7	11	10	9

(i) 20 (ii) 24 (iii) 21 (iv) 22 (v) 19

During the medical check-up of 61 students of a class, their weights in kgs are recorded as follows.

Identify the number of students whose weight is more than 71 kg

14.

Class-Interval	35 - 44	44 - 53	53 - 62	62 - 71	71 - 80	80 - 89
Frequency	12	9	9	9	12	10

(i) 22 (ii) 25 (iii) 19 (iv) 21 (v) 23

Assignment Key

1) (v)	2) (iii)	3) (iv)	4) (i)	5) (ii)	6) (ii)
7) (iii)	8) (i)	9) (i)	10) (i)	11) (v)	12) (iv)
13) (iii)	14) (i)				