



Construct a frequency distribution table from the following cumulative frequency distribution

Class-Interval	Cumulative Frequency
38 - 48	6
49 - 59	20
60 - 70	35
71 - 81	42
82 - 92	52
93 - 103	60

1.

(i)

Class-Interval	38 - 48	49 - 59	60 - 70	71 - 81	82 - 92	93 - 103
Frequency	6	8	15	7	10	14

(ii)

Class-Interval	38 - 48	49 - 59	60 - 70	71 - 81	82 - 92	93 - 103
Frequency	6	14	20	7	10	8

(iii)

Class-Interval	38 - 48	49 - 59	60 - 70	71 - 81	82 - 92	93 - 103
Frequency	6	14	15	7	10	8

(iv)

Class-Interval	38 - 48	49 - 59	60 - 70	71 - 81	82 - 92	93 - 103
Frequency	6	15	14	7	10	8

(v)

Class-Interval	38 - 48	49 - 59	60 - 70	71 - 81	82 - 92	93 - 103
Frequency	6	14	15	12	10	8

Construct a frequency distribution table from the following cumulative frequency distribution

Class-Interval	Cumulative Frequency
38 - 48	8
48 - 58	14
58 - 68	19
68 - 78	30
78 - 88	42
88 - 98	53
98 - 108	66
108 - 118	71

2.

(i)

Class-Interval	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
Frequency	8	6	5	11	8	11	13	5

(ii)

Class-Interval	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
Frequency	8	6	5	11	12	11	13	5

(iii)

Class-Interval	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
Frequency	8	6	11	5	12	11	13	5

(iv)

Class-Interval	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
Frequency	8	6	1	11	12	11	13	5

(v)

Class-Interval	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
Frequency	8	5	5	11	12	11	13	6

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 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51	52 - 57
No. of Patients	72	73	10	60	73	81	19	90

(i)

Age (in years)	Cumulative Frequency
10 - 15	72
16 - 21	162
22 - 27	172
28 - 33	232
34 - 39	305
40 - 45	386
46 - 51	405
52 - 57	478

(ii)

Age (in years)	Cumulative Frequency
10 - 15	72
16 - 21	145
22 - 27	155
28 - 33	215
34 - 39	288
40 - 45	369
46 - 51	388
52 - 57	478

(iii)

Age (in years)	Cumulative Frequency
10 - 15	72
16 - 21	145
22 - 27	152
28 - 33	212
34 - 39	285
40 - 45	366
46 - 51	385
52 - 57	475

(iv)

Age (in years)	Cumulative Frequency
10 - 15	72
16 - 21	145
22 - 27	155
28 - 33	215
34 - 39	285
40 - 45	366
46 - 51	385
52 - 57	475

(v)

Age (in years)	Cumulative Frequency
10 - 15	72
16 - 21	145
22 - 27	205
28 - 33	215
34 - 39	288
40 - 45	369
46 - 51	388
52 - 57	478

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)	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45
No. of Patients	36	51	54	20	76

(i)

Age (in years)	Cumulative Frequency
20 - 25	36
25 - 30	90
30 - 35	141
35 - 40	161
40 - 45	237

(ii)

Age (in years)	Cumulative Frequency
20 - 25	36
25 - 30	112
30 - 35	166
35 - 40	186
40 - 45	237

(iii)

Age (in years)	Cumulative Frequency
20 - 25	36
25 - 30	87
30 - 35	141
35 - 40	161
40 - 45	237

(iv)

Age (in years)	Cumulative Frequency
20 - 25	36
25 - 30	83
30 - 35	137
35 - 40	157
40 - 45	233

(v)

Age (in years)	Cumulative Frequency
20 - 25	36
25 - 30	87
30 - 35	145
35 - 40	165
40 - 45	241

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 - 220	221 - 241	242 - 262	263 - 283	284 - 304	305 - 325
Labourers	12	17	16	1	18	15

(i)

Wages (in rupees)	Cumulative Frequency
200 - 220	12
221 - 241	28
242 - 262	45
263 - 283	46
284 - 304	64
305 - 325	79

(ii)

Wages (in rupees)	Cumulative Frequency
200 - 220	12
221 - 241	29
242 - 262	45
263 - 283	48
284 - 304	66
305 - 325	81

(iii)

Wages (in rupees)	Cumulative Frequency
200 - 220	12
221 - 241	27
242 - 262	43
263 - 283	44
284 - 304	62
305 - 325	79

(iv)

Wages (in rupees)	Cumulative Frequency
200 - 220	12
221 - 241	29
242 - 262	45
263 - 283	46
284 - 304	64
305 - 325	79

(v)

Wages (in rupees)	Cumulative Frequency
200 - 220	12
221 - 241	29
242 - 262	49
263 - 283	50
284 - 304	68
305 - 325	83

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)	200 - 220	220 - 240	240 - 260	260 - 280	280 - 300	300 - 320
Labourers	6	5	9	11	8	8

(i)

Wages (in rupees)	Cumulative Frequency
200 - 220	6
220 - 240	15
240 - 260	20
260 - 280	31
280 - 300	39
300 - 320	47

(ii)

Wages (in rupees)	Cumulative Frequency
200 - 220	6
220 - 240	14
240 - 260	23
260 - 280	34
280 - 300	42
300 - 320	47

(iii)

Wages (in rupees)	Cumulative Frequency
200 - 220	6
220 - 240	11
240 - 260	20
260 - 280	31
280 - 300	39
300 - 320	47

(iv)

Wages (in rupees)	Cumulative Frequency
200 - 220	6
220 - 240	11
240 - 260	20
260 - 280	29
280 - 300	37
300 - 320	45

(v)

Wages (in rupees)	Cumulative Frequency
200 - 220	6
220 - 240	11
240 - 260	24
260 - 280	35
280 - 300	43
300 - 320	51

Identify the cumulative frequency of the given grouped data.

7.

class interval	20 - 28	29 - 37	38 - 46	47 - 55	56 - 64
frequency	12	24	23	15	21

(i)

class interval	Cumulative Frequency
20 - 28	12
29 - 37	33
38 - 46	56
47 - 55	71
56 - 64	95

(ii)

class interval	Cumulative Frequency
20 - 28	12
29 - 37	36
38 - 46	59
47 - 55	74
56 - 64	95

(iii)

class interval	Cumulative Frequency
20 - 28	12
29 - 37	33
38 - 46	56
47 - 55	71
56 - 64	92

(iv)

class interval	Cumulative Frequency
20 - 28	12
29 - 37	35
38 - 46	59
47 - 55	74
56 - 64	95

(v)

class interval	Cumulative Frequency
20 - 28	12
29 - 37	36
38 - 46	62
47 - 55	77
56 - 64	98

Identify the cumulative frequency of the given grouped data.

8.	<b>class interval</b>	39 - 46	46 - 53	53 - 60	60 - 67	67 - 74	74 - 81	81 - 88	88 - 95
	<b>frequency</b>	19	12	8	20	24	11	10	21

(i)

class interval	Cumulative Frequency
39 - 46	19
46 - 53	40
53 - 60	48
60 - 67	68
67 - 74	92
74 - 81	103
81 - 88	113
88 - 95	125

(ii)

class interval	Cumulative Frequency
39 - 46	19
46 - 53	31
53 - 60	51
60 - 67	59
67 - 74	83
74 - 81	94
81 - 88	104
88 - 95	125

(iii)

class interval	Cumulative Frequency
39 - 46	19
46 - 53	31
53 - 60	42
60 - 67	62
67 - 74	86
74 - 81	97
81 - 88	107
88 - 95	128

(iv)

class interval	Cumulative Frequency
39 - 46	19
46 - 53	31
53 - 60	39
60 - 67	59
67 - 74	79
74 - 81	90
81 - 88	100
88 - 95	121

(v)

class interval	Cumulative Frequency
39 - 46	19
46 - 53	31
53 - 60	39
60 - 67	59
67 - 74	83
74 - 81	94
81 - 88	104
88 - 95	125

Find the cumulative frequency of class 56-62 .

9.	<b>Class-Interval</b>	28 - 34	35 - 41	42 - 48	49 - 55	56 - 62
	<b>Frequency</b>	7	22	5	17	13

(i) 63 (ii) 65 (iii) 64 (iv) 61 (v) 66

Find the cumulative frequency of class 54-59 .

10.	<b>Class-Interval</b>	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54	54 - 59	59 - 64	64 - 69
	<b>Frequency</b>	20	21	5	5	6	19	10	14

(i) 76 (ii) 75 (iii) 74 (iv) 77 (v) 78

During the medical check-up of 50 students of a class, their weights in kgs are recorded as follows.

Identify the number of students whose weight is less than 59 kg

11.	<b>Class-Interval</b>	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73	73 - 80	80 - 87
	<b>Frequency</b>	9	6	5	7	6	10	7

(i) 22 (ii) 21 (iii) 20 (iv) 17 (v) 19

During the medical check-up of 70 students of a class, their weights in kgs are recorded as follows.

Identify the number of students whose weight is more than 74 kg

12.

<b>Class-Interval</b>	34 - 44	44 - 54	54 - 64	64 - 74	74 - 84	84 - 94	94 - 104	104 - 114
<b>Frequency</b>	12	5	12	11	6	12	6	6

(i) 28 (ii) 29 (iii) 32 (iv) 31 (v) 30

## Assignment Key

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1) (iii)

2) (ii)

3) (ii)

4) (iii)

5) (iv)

6) (iii)

7) (ii)

8) (v)

9) (iii)

10) (i)

11) (iii)

12) (v)