



Construct a frequency distribution table from the following cumulative frequency distribution

<b>Class-Interval</b>	<b>Cumulative Frequency</b>
18 - 28	7
29 - 39	22
40 - 50	32
51 - 61	41
62 - 72	57
73 - 83	73

- 1.
- (i) 

<b>Class-Interval</b>	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83
<b>Frequency</b>	7	16	10	9	16	15
- (ii) 

<b>Class-Interval</b>	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83
<b>Frequency</b>	7	10	15	9	16	16
- (iii) 

<b>Class-Interval</b>	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83
<b>Frequency</b>	7	15	10	9	16	16
- (iv) 

<b>Class-Interval</b>	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83
<b>Frequency</b>	7	15	10	12	16	16
- (v) 

<b>Class-Interval</b>	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83
<b>Frequency</b>	7	15	5	9	16	16

Construct a frequency distribution table from the following cumulative frequency distribution

<b>Class-Interval</b>	<b>Cumulative Frequency</b>
24 - 33	10
33 - 42	18
42 - 51	29
51 - 60	37
60 - 69	52
69 - 78	61

- 2.
- (i) 

<b>Class-Interval</b>	24 - 33	33 - 42	42 - 51	51 - 60	60 - 69	69 - 78
<b>Frequency</b>	10	9	11	8	15	8
- (ii) 

<b>Class-Interval</b>	24 - 33	33 - 42	42 - 51	51 - 60	60 - 69	69 - 78
<b>Frequency</b>	10	8	11	8	15	9
- (iii) 

<b>Class-Interval</b>	24 - 33	33 - 42	42 - 51	51 - 60	60 - 69	69 - 78
<b>Frequency</b>	10	11	8	8	15	9
- (iv) 

<b>Class-Interval</b>	24 - 33	33 - 42	42 - 51	51 - 60	60 - 69	69 - 78
<b>Frequency</b>	10	8	6	8	15	9
- (v) 

<b>Class-Interval</b>	24 - 33	33 - 42	42 - 51	51 - 60	60 - 69	69 - 78
<b>Frequency</b>	10	8	11	4	15	9

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

3.

<b>Age (in years)</b>	10 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51
<b>No. of Patients</b>	36	68	30	16	44	42	31

(i)

<b>Age (in years)</b>	<b>Cumulative Frequency</b>
10 - 15	36
16 - 21	104
22 - 27	134
28 - 33	153
34 - 39	197
40 - 45	239
46 - 51	270

(ii)

<b>Age (in years)</b>	<b>Cumulative Frequency</b>
10 - 15	36
16 - 21	66
22 - 27	134
28 - 33	150
34 - 39	194
40 - 45	236
46 - 51	267

(iii)

<b>Age (in years)</b>	<b>Cumulative Frequency</b>
10 - 15	36
16 - 21	104
22 - 27	134
28 - 33	150
34 - 39	194
40 - 45	236
46 - 51	267

(iv)

<b>Age (in years)</b>	<b>Cumulative Frequency</b>
10 - 15	36
16 - 21	67
22 - 27	97
28 - 33	113
34 - 39	157
40 - 45	199
46 - 51	267

(v)

<b>Age (in years)</b>	<b>Cumulative Frequency</b>
10 - 15	36
16 - 21	104
22 - 27	138
28 - 33	154
34 - 39	198
40 - 45	240
46 - 51	271

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 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of Patients	83	74	15	26	80	41

(i)

Age (in years)	Cumulative Frequency
10 - 20	83
20 - 30	98
30 - 40	172
40 - 50	198
50 - 60	278
60 - 70	319

(ii)

Age (in years)	Cumulative Frequency
10 - 20	83
20 - 30	157
30 - 40	172
40 - 50	195
50 - 60	275
60 - 70	316

(iii)

Age (in years)	Cumulative Frequency
10 - 20	83
20 - 30	157
30 - 40	172
40 - 50	198
50 - 60	278
60 - 70	319

(iv)

Age (in years)	Cumulative Frequency
10 - 20	83
20 - 30	124
30 - 40	139
40 - 50	165
50 - 60	245
60 - 70	319

(v)

Age (in years)	Cumulative Frequency
10 - 20	83
20 - 30	157
30 - 40	167
40 - 50	193
50 - 60	273
60 - 70	314

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

5.

<b>Wages (in rupees)</b>	300 - 330	331 - 361	362 - 392	393 - 423	424 - 454	455 - 485
<b>Labourers</b>	10	10	16	11	4	4

(i)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 330	10
331 - 361	20
362 - 392	36
393 - 423	47
424 - 454	51
455 - 485	55

(ii)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 330	10
331 - 361	20
362 - 392	31
393 - 423	42
424 - 454	46
455 - 485	50

(iii)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 330	10
331 - 361	26
362 - 392	36
393 - 423	47
424 - 454	51
455 - 485	55

(iv)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 330	10
331 - 361	20
362 - 392	36
393 - 423	42
424 - 454	46
455 - 485	50

(v)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 330	10
331 - 361	14
362 - 392	30
393 - 423	41
424 - 454	45
455 - 485	55

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

6.

<b>Wages (in rupees)</b>	300 - 320	320 - 340	340 - 360	360 - 380	380 - 400	400 - 420
<b>Labourers</b>	5	7	6	14	18	9

(i)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 320	5
320 - 340	12
340 - 360	18
360 - 380	35
380 - 400	53
400 - 420	62

(ii)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 320	5
320 - 340	14
340 - 360	20
360 - 380	34
380 - 400	52
400 - 420	59

(iii)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 320	5
320 - 340	12
340 - 360	18
360 - 380	32
380 - 400	50
400 - 420	59

(iv)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 320	5
320 - 340	11
340 - 360	18
360 - 380	32
380 - 400	50
400 - 420	59

(v)

<b>Wages (in rupees)</b>	<b>Cumulative Frequency</b>
300 - 320	5
320 - 340	12
340 - 360	15
360 - 380	29
380 - 400	47
400 - 420	56

Identify the cumulative frequency of the given grouped data.

class interval	20 - 27	28 - 35	36 - 43	44 - 51	52 - 59	60 - 67	68 - 75	76 - 83
frequency	12	8	9	13	10	8	9	10

class interval	Cumulative Frequency
20 - 27	12
28 - 35	20
36 - 43	29
44 - 51	42
52 - 59	52
60 - 67	60
68 - 75	69
76 - 83	79

class interval	Cumulative Frequency
20 - 27	12
28 - 35	22
36 - 43	31
44 - 51	44
52 - 59	54
60 - 67	62
68 - 75	71
76 - 83	79

class interval	Cumulative Frequency
20 - 27	12
28 - 35	20
36 - 43	24
44 - 51	37
52 - 59	47
60 - 67	55
68 - 75	64
76 - 83	74

class interval	Cumulative Frequency
20 - 27	12
28 - 35	20
36 - 43	29
44 - 51	42
52 - 59	54
60 - 67	62
68 - 75	71
76 - 83	81

class interval	Cumulative Frequency
20 - 27	12
28 - 35	20
36 - 43	33
44 - 51	42
52 - 59	52
60 - 67	60
68 - 75	69
76 - 83	79

Identify the cumulative frequency of the given grouped data.

<b>class interval</b>	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78	78 - 86	86 - 94
<b>frequency</b>	23	12	6	24	18	16	12

<b>class interval</b>	<b>Cumulative Frequency</b>
38 - 46	23
46 - 54	35
54 - 62	41
62 - 70	67
70 - 78	85
78 - 86	101
86 - 94	113

<b>class interval</b>	<b>Cumulative Frequency</b>
38 - 46	23
46 - 54	35
54 - 62	38
62 - 70	62
70 - 78	80
78 - 86	96
86 - 94	108

<b>class interval</b>	<b>Cumulative Frequency</b>
38 - 46	23
46 - 54	35
54 - 62	41
62 - 70	65
70 - 78	83
78 - 86	99
86 - 94	111

<b>class interval</b>	<b>Cumulative Frequency</b>
38 - 46	23
46 - 54	29
54 - 62	41
62 - 70	65
70 - 78	83
78 - 86	99
86 - 94	111

Find the cumulative frequency of class 38-45 .

<b>Class-Interval</b>	22 - 29	30 - 37	38 - 45	46 - 53
<b>Frequency</b>	25	22	13	11

- (i) 60 (ii) 59 (iii) 57 (iv) 61 (v) 62

Find the cumulative frequency of class 30-35 .

<b>Class-Interval</b>	25 - 30	30 - 35	35 - 40	40 - 45
<b>Frequency</b>	15	12	17	12

- (i) 24 (ii) 26 (iii) 28 (iv) 29 (v) 27

During the medical check-up of 52 students of a class, their weights in kgs are recorded as follows.

Identify the number of students whose weight is less than 66 kg

<b>Class-Interval</b>	31 - 36	36 - 41	41 - 46	46 - 51	51 - 56	56 - 61	61 - 66	66 - 71
<b>Frequency</b>	6	6	5	5	5	6	10	9

- (i) 44 (ii) 43 (iii) 45 (iv) 42 (v) 41

During the medical check-up of 58 students of a class, their weights in kgs are recorded as follows.

Identify the number of students whose weight is more than 52 kg

<b>Class-Interval</b>	36 - 44	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84	84 - 92	92 - 100
<b>Frequency</b>	5	5	8	11	7	6	8	8

- (i) 50 (ii) 48 (iii) 45 (iv) 47 (v) 49

## Assignment Key

1) (iii)

2) (ii)

3) (iii)

4) (iii)

5) (i)

6) (iii)

7) (i)

8) (iii)

9) (i)

10) (v)

11) (ii)

12) (ii)