



Construct a frequency distribution table from the following cumulative frequency distribution

1.

Class-Interval	Cumulative Frequency
28 - 35	9
35 - 42	23
42 - 49	32
49 - 56	43
56 - 63	55
63 - 70	65

(i)

Class-Interval	28 - 35	35 - 42	42 - 49	49 - 56	56 - 63	63 - 70
Frequency	9	14	9	16	12	10

(ii)

Class-Interval	28 - 35	35 - 42	42 - 49	49 - 56	56 - 63	63 - 70
Frequency	9	14	5	11	12	10

(iii)

Class-Interval	28 - 35	35 - 42	42 - 49	49 - 56	56 - 63	63 - 70
Frequency	9	14	9	11	12	10

(iv)

Class-Interval	28 - 35	35 - 42	42 - 49	49 - 56	56 - 63	63 - 70
Frequency	9	9	14	11	12	10

(v)

Class-Interval	28 - 35	35 - 42	42 - 49	49 - 56	56 - 63	63 - 70
Frequency	9	10	9	11	12	14

Construct a frequency distribution table from the following cumulative frequency distribution

2.

Class-Interval	Cumulative Frequency
15 - 19	14
20 - 24	23
25 - 29	28
30 - 34	39
35 - 39	48
40 - 44	55
45 - 49	63

(i)

Class-Interval	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49
Frequency	14	9	5	11	9	7	8

(ii)

Class-Interval	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49
Frequency	14	8	5	11	9	7	9

(iii)

Class-Interval	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49
Frequency	14	9	10	11	9	7	8

(iv)

Class-Interval	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49
Frequency	14	9	5	14	9	7	8

(v)

Class-Interval	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49
Frequency	14	5	9	11	9	7	8

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
No. of Patients	69	21	48	53	51	85

(i)

Age (in years)	Cumulative Frequency
10 - 15	69
16 - 21	117
22 - 27	138
28 - 33	191
34 - 39	242
40 - 45	327

(ii)

Age (in years)	Cumulative Frequency
10 - 15	69
16 - 21	90
22 - 27	138
28 - 33	191
34 - 39	242
40 - 45	327

(iii)

Age (in years)	Cumulative Frequency
10 - 15	69
16 - 21	154
22 - 27	202
28 - 33	255
34 - 39	306
40 - 45	327

(iv)

Age (in years)	Cumulative Frequency
10 - 15	69
16 - 21	90
22 - 27	135
28 - 33	188
34 - 39	239
40 - 45	324

(v)

Age (in years)	Cumulative Frequency
10 - 15	69
16 - 21	90
22 - 27	138
28 - 33	188
34 - 39	239
40 - 45	324

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	89	32	82	62	23

(i)

Age (in years)	Cumulative Frequency
20 - 25	89
25 - 30	112
30 - 35	194
35 - 40	256
40 - 45	288

(ii)

Age (in years)	Cumulative Frequency
20 - 25	89
25 - 30	171
30 - 35	203
35 - 40	265
40 - 45	288

(iii)

Age (in years)	Cumulative Frequency
20 - 25	89
25 - 30	123
30 - 35	205
35 - 40	267
40 - 45	290

(iv)

Age (in years)	Cumulative Frequency
20 - 25	89
25 - 30	121
30 - 35	201
35 - 40	263
40 - 45	286

(v)

Age (in years)	Cumulative Frequency
20 - 25	89
25 - 30	121
30 - 35	203
35 - 40	265
40 - 45	288

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 - 240	241 - 281	282 - 322	323 - 363	364 - 404	405 - 445
Labourers	5	6	2	17	12	15

(i)

Wages (in rupees)	Cumulative Frequency
200 - 240	5
241 - 281	11
282 - 322	13
323 - 363	34
364 - 404	46
405 - 445	61

(ii)

Wages (in rupees)	Cumulative Frequency
200 - 240	5
241 - 281	11
282 - 322	13
323 - 363	30
364 - 404	42
405 - 445	57

(iii)

Wages (in rupees)	Cumulative Frequency
200 - 240	5
241 - 281	7
282 - 322	13
323 - 363	30
364 - 404	42
405 - 445	57

(iv)

Wages (in rupees)	Cumulative Frequency
200 - 240	5
241 - 281	11
282 - 322	15
323 - 363	32
364 - 404	44
405 - 445	59

(v)

Wages (in rupees)	Cumulative Frequency
200 - 240	5
241 - 281	20
282 - 322	22
323 - 363	39
364 - 404	51
405 - 445	57

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 - 320	320 - 340	340 - 360	360 - 380	380 - 400	400 - 420
Labourers	2	19	16	13	11	2

(i)

Wages (in rupees)	Cumulative Frequency
300 - 320	2
320 - 340	21
340 - 360	37
360 - 380	54
380 - 400	65
400 - 420	67

(ii)

Wages (in rupees)	Cumulative Frequency
300 - 320	2
320 - 340	21
340 - 360	33
360 - 380	46
380 - 400	57
400 - 420	59

(iii)

Wages (in rupees)	Cumulative Frequency
300 - 320	2
320 - 340	18
340 - 360	37
360 - 380	50
380 - 400	61
400 - 420	63

(iv)

Wages (in rupees)	Cumulative Frequency
300 - 320	2
320 - 340	4
340 - 360	20
360 - 380	33
380 - 400	44
400 - 420	63

(v)

Wages (in rupees)	Cumulative Frequency
300 - 320	2
320 - 340	21
340 - 360	37
360 - 380	50
380 - 400	61
400 - 420	63

Identify the cumulative frequency of the given grouped data.

7.	<b>class interval</b>	18 - 25	26 - 33	34 - 41	42 - 49	50 - 57	58 - 65	66 - 73
	<b>frequency</b>	18	20	19	23	17	16	21

(i)

class interval	Cumulative Frequency
18 - 25	18
26 - 33	38
34 - 41	57
42 - 49	80
50 - 57	97
58 - 65	113
66 - 73	134

(ii)

class interval	Cumulative Frequency
18 - 25	18
26 - 33	37
34 - 41	57
42 - 49	80
50 - 57	97
58 - 65	113
66 - 73	134

(iii)

class interval	Cumulative Frequency
18 - 25	18
26 - 33	39
34 - 41	58
42 - 49	81
50 - 57	98
58 - 65	114
66 - 73	134

(iv)

class interval	Cumulative Frequency
18 - 25	18
26 - 33	38
34 - 41	53
42 - 49	76
50 - 57	93
58 - 65	109
66 - 73	130

(v)

class interval	Cumulative Frequency
18 - 25	18
26 - 33	38
34 - 41	57
42 - 49	82
50 - 57	99
58 - 65	115
66 - 73	136

Identify the cumulative frequency of the given grouped data.

8.	<b>class interval</b>	36 - 43	43 - 50	50 - 57	57 - 64	64 - 71
	<b>frequency</b>	9	9	5	5	16

(i)

class interval	Cumulative Frequency
36 - 43	9
43 - 50	25
50 - 57	30
57 - 64	35
64 - 71	44

(ii)

class interval	Cumulative Frequency
36 - 43	9
43 - 50	15
50 - 57	20
57 - 64	25
64 - 71	41

(iii)

class interval	Cumulative Frequency
36 - 43	9
43 - 50	18
50 - 57	20
57 - 64	25
64 - 71	41

(iv)

class interval	Cumulative Frequency
36 - 43	9
43 - 50	14
50 - 57	23
57 - 64	28
64 - 71	44

(v)

class interval	Cumulative Frequency
36 - 43	9
43 - 50	18
50 - 57	23
57 - 64	28
64 - 71	44

Given class interval table, find the sum of frequencies.

9. 

<b>Class-Interval</b>	13 - 23	23 - 33	33 - 43	43 - 53	53 - 63
<b>Frequency</b>	25	15	5	27	11

- (i) 84 (ii) 82 (iii) 85 (iv) 80 (v) 83

Find the cumulative frequency of class 93-103 .

10. 

<b>Class-Interval</b>	38 - 48	49 - 59	60 - 70	71 - 81	82 - 92	93 - 103
<b>Frequency</b>	10	5	19	16	8	14

- (i) 73 (ii) 71 (iii) 72 (iv) 74 (v) 69

Find the cumulative frequency of class 55-63 .

11. 

<b>Class-Interval</b>	31 - 39	39 - 47	47 - 55	55 - 63	63 - 71	71 - 79
<b>Frequency</b>	22	9	8	7	19	21

- (i) 46 (ii) 48 (iii) 47 (iv) 44 (v) 45

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

12. 

<b>Class-Interval</b>	<b>Cumulative Frequency</b>
38 - 45	7
45 - 52	17
52 - 59	32
59 - 66	48
66 - 73	60
73 - 80	75

(i) 

<b>Class-Interval</b>	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73	73 - 80
<b>Frequency</b>	7	15	10	16	12	15

(ii) 

<b>Class-Interval</b>	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73	73 - 80
<b>Frequency</b>	7	10	15	16	12	15

(iii) 

<b>Class-Interval</b>	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73	73 - 80
<b>Frequency</b>	7	10	20	16	12	15

(iv) 

<b>Class-Interval</b>	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73	73 - 80
<b>Frequency</b>	7	10	15	12	12	15

(v) 

<b>Class-Interval</b>	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73	73 - 80
<b>Frequency</b>	7	15	15	16	12	10

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

13.

Class-Interval	Cumulative Frequency
11 - 18	81
18 - 25	65
25 - 32	57
32 - 39	50
39 - 46	38
46 - 53	26
53 - 60	11

(i)

Class-Interval	11 - 18	18 - 25	25 - 32	32 - 39	39 - 46	46 - 53	53 - 60
Frequency	16	8	7	14	12	15	11

(ii)

Class-Interval	11 - 18	18 - 25	25 - 32	32 - 39	39 - 46	46 - 53	53 - 60
Frequency	16	8	4	12	12	15	11

(iii)

Class-Interval	11 - 18	18 - 25	25 - 32	32 - 39	39 - 46	46 - 53	53 - 60
Frequency	16	8	7	12	12	15	11

(iv)

Class-Interval	11 - 18	18 - 25	25 - 32	32 - 39	39 - 46	46 - 53	53 - 60
Frequency	16	11	7	12	12	15	8

(v)

Class-Interval	11 - 18	18 - 25	25 - 32	32 - 39	39 - 46	46 - 53	53 - 60
Frequency	16	7	8	12	12	15	11

During the medical check-up of 38 students of a class, their weights in kgs are recorded as follows. Identify the number of students whose weight is less than 61 kg

14.

Class-Interval	33 - 40	40 - 47	47 - 54	54 - 61
Frequency	10	11	7	10

(i) 39 (ii) 38 (iii) 36 (iv) 37 (v) 41

During the medical check-up of 39 students of a class, their weights in kgs are recorded as follows. Identify the number of students whose weight is more than 57 kg

15.

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63
Frequency	9	10	12	8

(i) 7 (ii) 5 (iii) 8 (iv) 9 (v) 10

## Assignment Key

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1) (iii)	2) (i)	3) (ii)	4) (v)	5) (ii)	6) (v)
7) (i)	8) (v)	9) (v)	10) (iii)	11) (i)	12) (ii)
13) (iii)	14) (ii)	15) (iii)			