



Construct a frequency distribution table from the following cumulative frequency distribution

1.

Class-Interval	Cumulative Frequency
17 - 25	10
25 - 33	24
33 - 41	39
41 - 49	50
49 - 57	60
57 - 65	71

(i)

Class-Interval	17 - 25	25 - 33	33 - 41	41 - 49	49 - 57	57 - 65
Frequency	10	14	15	8	10	11

(ii)

Class-Interval	17 - 25	25 - 33	33 - 41	41 - 49	49 - 57	57 - 65
Frequency	10	14	13	11	10	11

(iii)

Class-Interval	17 - 25	25 - 33	33 - 41	41 - 49	49 - 57	57 - 65
Frequency	10	14	15	11	10	11

(iv)

Class-Interval	17 - 25	25 - 33	33 - 41	41 - 49	49 - 57	57 - 65
Frequency	10	11	15	11	10	14

(v)

Class-Interval	17 - 25	25 - 33	33 - 41	41 - 49	49 - 57	57 - 65
Frequency	10	15	14	11	10	11

Construct a frequency distribution table from the following cumulative frequency distribution

2.

Class-Interval	Cumulative Frequency
19 - 27	11
28 - 36	23
37 - 45	33
46 - 54	48
55 - 63	56
64 - 72	61

(i)

Class-Interval	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72
Frequency	11	12	10	15	8	5

(ii)

Class-Interval	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72
Frequency	11	5	10	15	8	12

(iii)

Class-Interval	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72
Frequency	11	10	12	15	8	5

(iv)

Class-Interval	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72
Frequency	11	12	10	17	8	5

(v)

Class-Interval	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72
Frequency	11	12	6	15	8	5

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
No. of Patients	81	71	20	23

(i)

Age (in years)	Cumulative Frequency
10 - 15	81
16 - 21	152
22 - 27	176
28 - 33	199

(ii)

Age (in years)	Cumulative Frequency
10 - 15	23
16 - 21	94
22 - 27	114
28 - 33	195

(iii)

Age (in years)	Cumulative Frequency
10 - 15	81
16 - 21	154
22 - 27	174
28 - 33	197

(iv)

Age (in years)	Cumulative Frequency
10 - 15	81
16 - 21	101
22 - 27	172
28 - 33	195

(v)

Age (in years)	Cumulative Frequency
10 - 15	81
16 - 21	152
22 - 27	172
28 - 33	195

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
No. of Patients	20	22	68	67

(i)

Age (in years)	Cumulative Frequency
10 - 20	67
20 - 30	89
30 - 40	157
40 - 50	177

(ii)

Age (in years)	Cumulative Frequency
10 - 20	20
20 - 30	88
30 - 40	110
40 - 50	177

(iii)

Age (in years)	Cumulative Frequency
10 - 20	20
20 - 30	42
30 - 40	110
40 - 50	177

(iv)

Age (in years)	Cumulative Frequency
10 - 20	20
20 - 30	46
30 - 40	114
40 - 50	181

(v)

Age (in years)	Cumulative Frequency
10 - 20	20
20 - 30	42
30 - 40	113
40 - 50	180

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	8	7	17	4	10	12

(i)

Wages (in rupees)	Cumulative Frequency
200 - 230	8
231 - 261	15
262 - 292	35
293 - 323	39
324 - 354	49
355 - 385	61

(ii)

Wages (in rupees)	Cumulative Frequency
200 - 230	8
231 - 261	20
262 - 292	37
293 - 323	41
324 - 354	51
355 - 385	58

(iii)

Wages (in rupees)	Cumulative Frequency
200 - 230	8
231 - 261	15
262 - 292	32
293 - 323	40
324 - 354	50
355 - 385	62

(iv)

Wages (in rupees)	Cumulative Frequency
200 - 230	8
231 - 261	15
262 - 292	32
293 - 323	36
324 - 354	46
355 - 385	58

(v)

Wages (in rupees)	Cumulative Frequency
200 - 230	8
231 - 261	25
262 - 292	32
293 - 323	36
324 - 354	46
355 - 385	58

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 - 340	340 - 380	380 - 420	420 - 460	460 - 500	500 - 540
Labourers	20	12	20	12	15	11

(i)

Wages (in rupees)	Cumulative Frequency
300 - 340	20
340 - 380	32
380 - 420	52
420 - 460	64
460 - 500	79
500 - 540	90

(ii)

Wages (in rupees)	Cumulative Frequency
300 - 340	20
340 - 380	32
380 - 420	55
420 - 460	67
460 - 500	82
500 - 540	93

(iii)

Wages (in rupees)	Cumulative Frequency
300 - 340	20
340 - 380	40
380 - 420	52
420 - 460	64
460 - 500	79
500 - 540	90

(iv)

Wages (in rupees)	Cumulative Frequency
300 - 340	20
340 - 380	31
380 - 420	51
420 - 460	63
460 - 500	78
500 - 540	90

(v)

Wages (in rupees)	Cumulative Frequency
300 - 340	20
340 - 380	32
380 - 420	52
420 - 460	62
460 - 500	77
500 - 540	88

Identify the cumulative frequency of the given grouped data.

7.

class interval	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51
frequency	5	12	22	18	8

(i)

class interval	Cumulative Frequency
22 - 27	5
28 - 33	17
34 - 39	34
40 - 45	52
46 - 51	60

(ii)

class interval	Cumulative Frequency
22 - 27	5
28 - 33	13
34 - 39	35
40 - 45	53
46 - 51	65

(iii)

class interval	Cumulative Frequency
22 - 27	5
28 - 33	27
34 - 39	39
40 - 45	57
46 - 51	65

(iv)

class interval	Cumulative Frequency
22 - 27	5
28 - 33	12
34 - 39	34
40 - 45	52
46 - 51	60

(v)

class interval	Cumulative Frequency
22 - 27	5
28 - 33	17
34 - 39	39
40 - 45	57
46 - 51	65

Identify the cumulative frequency of the given grouped data.

8. 

<b>class interval</b>	22 - 31	31 - 40	40 - 49	49 - 58	58 - 67	67 - 76	76 - 85	85 - 94
<b>frequency</b>	18	5	12	15	17	25	21	25

(i) 

class interval	Cumulative Frequency
22 - 31	18
31 - 40	23
40 - 49	35
49 - 58	50
58 - 67	63
67 - 76	88
76 - 85	109
85 - 94	134

(ii) 

class interval	Cumulative Frequency
22 - 31	18
31 - 40	23
40 - 49	33
49 - 58	48
58 - 67	65
67 - 76	90
76 - 85	111
85 - 94	136

(iii) 

class interval	Cumulative Frequency
22 - 31	18
31 - 40	43
40 - 49	55
49 - 58	70
58 - 67	87
67 - 76	112
76 - 85	133
85 - 94	138

(iv) 

class interval	Cumulative Frequency
22 - 31	18
31 - 40	23
40 - 49	35
49 - 58	50
58 - 67	67
67 - 76	92
76 - 85	113
85 - 94	138

(v) 

class interval	Cumulative Frequency
22 - 31	18
31 - 40	23
40 - 49	38
49 - 58	50
58 - 67	67
67 - 76	92
76 - 85	113
85 - 94	138

Given class interval table, find the sum of frequencies.

9. 

<b>Class-Interval</b>	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60
<b>Frequency</b>	28	27	5	15	25

(i) 98 (ii) 100 (iii) 99 (iv) 101 (v) 102

Find the cumulative frequency of class 34-39 .

10. 

<b>Class-Interval</b>	22 - 27	28 - 33	34 - 39	40 - 45
<b>Frequency</b>	10	5	7	16

(i) 25 (ii) 20 (iii) 22 (iv) 21 (v) 23

Find the cumulative frequency of class 47-53 .

11. 

<b>Class-Interval</b>	29 - 35	35 - 41	41 - 47	47 - 53
<b>Frequency</b>	7	25	25	7

(i) 64 (ii) 63 (iii) 65 (iv) 62 (v) 67

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

12.

Class-Interval	Cumulative Frequency
32 - 36	14
36 - 40	23
40 - 44	35
44 - 48	42
48 - 52	55

(i)

Class-Interval	32 - 36	36 - 40	40 - 44	44 - 48	48 - 52
Frequency	14	13	12	7	9

(ii)

Class-Interval	32 - 36	36 - 40	40 - 44	44 - 48	48 - 52
Frequency	14	9	17	7	13

(iii)

Class-Interval	32 - 36	36 - 40	40 - 44	44 - 48	48 - 52
Frequency	14	12	9	7	13

(iv)

Class-Interval	32 - 36	36 - 40	40 - 44	44 - 48	48 - 52
Frequency	14	9	12	7	13

(v)

Class-Interval	32 - 36	36 - 40	40 - 44	44 - 48	48 - 52
Frequency	14	6	12	7	13

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

13.

Class-Interval	Cumulative Frequency
38 - 45	46
45 - 52	39
52 - 59	33
59 - 66	20
66 - 73	14

(i)

Class-Interval	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73
Frequency	7	6	15	6	14

(ii)

Class-Interval	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73
Frequency	7	8	13	6	14

(iii)

Class-Interval	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73
Frequency	7	13	6	6	14

(iv)

Class-Interval	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73
Frequency	7	6	13	6	14

(v)

Class-Interval	38 - 45	45 - 52	52 - 59	59 - 66	66 - 73
Frequency	7	14	13	6	6

During the medical check-up of 56 students of a class, their weights in kgs are recorded as follows. Identify the number of students whose weight is less than 58 kg

14.

Class-Interval	40 - 46	46 - 52	52 - 58	58 - 64	64 - 70	70 - 76	76 - 82
Frequency	5	11	8	10	6	5	11

(i) 21 (ii) 25 (iii) 24 (iv) 23 (v) 26

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 more than 59 kg

15.

<b>Class-Interval</b>	35 - 41	41 - 47	47 - 53	53 - 59	59 - 65
<b>Frequency</b>	10	9	11	12	10

(i) 9 (ii) 11 (iii) 12 (iv) 10 (v) 7

## Assignment Key

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