



Construct a frequency distribution table from the following cumulative frequency distribution

1.

Class-Interval	Cumulative Frequency
31 - 41	5
42 - 52	20
53 - 63	29
64 - 74	38
75 - 85	49
86 - 96	61
97 - 107	74
108 - 118	79

(i)

Class-Interval	31 - 41	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107	108 - 118
Frequency	5	15	9	9	16	12	13	5

(ii)

Class-Interval	31 - 41	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107	108 - 118
Frequency	5	15	11	9	11	12	13	5

(iii)

Class-Interval	31 - 41	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107	108 - 118
Frequency	5	5	9	9	11	12	13	15

(iv)

Class-Interval	31 - 41	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107	108 - 118
Frequency	5	15	9	9	11	12	13	5

Construct a frequency distribution table from the following cumulative frequency distribution

2.

Class-Interval	Cumulative Frequency
16 - 25	16
25 - 34	23
34 - 43	39
43 - 52	55
52 - 61	69

(i)

Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61
Frequency	16	14	16	16	7

(ii)

Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61
Frequency	16	16	7	16	14

(iii)

Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61
Frequency	16	7	16	16	14

(iv)

Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61
Frequency	16	10	16	16	14

(v)

Class-Interval	16 - 25	25 - 34	34 - 43	43 - 52	52 - 61
Frequency	16	7	11	16	14

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	54 - 64
No. of Patients	35	53	67	49	19

(i)

Age (in years)	Cumulative Frequency
10 - 20	35
21 - 31	88
32 - 42	150
43 - 53	199
54 - 64	218

(ii)

Age (in years)	Cumulative Frequency
10 - 20	35
21 - 31	88
32 - 42	155
43 - 53	204
54 - 64	223

(iii)

Age (in years)	Cumulative Frequency
10 - 20	35
21 - 31	102
32 - 42	155
43 - 53	204
54 - 64	223

(iv)

Age (in years)	Cumulative Frequency
10 - 20	35
21 - 31	90
32 - 42	157
43 - 53	206
54 - 64	225

(v)

Age (in years)	Cumulative Frequency
10 - 20	35
21 - 31	54
32 - 42	121
43 - 53	170
54 - 64	223

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 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of Patients	38	86	78	84	87

(i)

Age (in years)	Cumulative Frequency
20 - 30	38
30 - 40	124
40 - 50	202
50 - 60	286
60 - 70	373

(ii)

Age (in years)	Cumulative Frequency
20 - 30	38
30 - 40	116
40 - 50	202
50 - 60	286
60 - 70	373

(iii)

Age (in years)	Cumulative Frequency
20 - 30	38
30 - 40	125
40 - 50	203
50 - 60	287
60 - 70	373

(iv)

Age (in years)	Cumulative Frequency
20 - 30	38
30 - 40	124
40 - 50	199
50 - 60	283
60 - 70	370

(v)

Age (in years)	Cumulative Frequency
20 - 30	38
30 - 40	127
40 - 50	205
50 - 60	289
60 - 70	376

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)	300 - 320	321 - 341	342 - 362	363 - 383	384 - 404	405 - 425
Labourers	13	20	14	2	1	20

(i)

Wages (in rupees)	Cumulative Frequency
300 - 320	13
321 - 341	33
342 - 362	47
363 - 383	52
384 - 404	53
405 - 425	73

(ii)

Wages (in rupees)	Cumulative Frequency
300 - 320	13
321 - 341	33
342 - 362	45
363 - 383	47
384 - 404	48
405 - 425	68

(iii)

Wages (in rupees)	Cumulative Frequency
300 - 320	13
321 - 341	33
342 - 362	47
363 - 383	49
384 - 404	50
405 - 425	70

(iv)

Wages (in rupees)	Cumulative Frequency
300 - 320	13
321 - 341	27
342 - 362	47
363 - 383	49
384 - 404	50
405 - 425	70

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 - 230	230 - 260	260 - 290	290 - 320	320 - 350	350 - 380
Labourers	3	7	11	1	15	16

(i)

Wages (in rupees)	Cumulative Frequency
200 - 230	3
230 - 260	19
260 - 290	30
290 - 320	31
320 - 350	46
350 - 380	53

(ii)

Wages (in rupees)	Cumulative Frequency
200 - 230	3
230 - 260	10
260 - 290	21
290 - 320	25
320 - 350	40
350 - 380	56

(iii)

Wages (in rupees)	Cumulative Frequency
200 - 230	3
230 - 260	10
260 - 290	21
290 - 320	22
320 - 350	37
350 - 380	53

(iv)

Wages (in rupees)	Cumulative Frequency
200 - 230	3
230 - 260	14
260 - 290	21
290 - 320	22
320 - 350	37
350 - 380	53

(v)

Wages (in rupees)	Cumulative Frequency
200 - 230	3
230 - 260	10
260 - 290	17
290 - 320	18
320 - 350	33
350 - 380	49

Identify the cumulative frequency of the given grouped data.

7.	class interval	33 - 40	41 - 48	49 - 56	57 - 64	65 - 72	73 - 80	81 - 88	89 - 96
	frequency	13	11	21	23	21	24	18	16

(i)

class interval	Cumulative Frequency
33 - 40	13
41 - 48	24
49 - 56	45
57 - 64	68
65 - 72	89
73 - 80	113
81 - 88	131
89 - 96	147

(ii)

class interval	Cumulative Frequency
33 - 40	13
41 - 48	24
49 - 56	45
57 - 64	68
65 - 72	94
73 - 80	118
81 - 88	136
89 - 96	152

(iii)

class interval	Cumulative Frequency
33 - 40	13
41 - 48	24
49 - 56	50
57 - 64	73
65 - 72	94
73 - 80	118
81 - 88	136
89 - 96	152

(iv)

class interval	Cumulative Frequency
33 - 40	13
41 - 48	24
49 - 56	47
57 - 64	68
65 - 72	89
73 - 80	113
81 - 88	131
89 - 96	147

(v)

class interval	Cumulative Frequency
33 - 40	13
41 - 48	29
49 - 56	50
57 - 64	73
65 - 72	94
73 - 80	118
81 - 88	136
89 - 96	147

Identify the cumulative frequency of the given grouped data.

8.

class interval	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79
frequency	14	9	5	9	20

(i)

class interval	Cumulative Frequency
49 - 55	14
55 - 61	27
61 - 67	32
67 - 73	41
73 - 79	61

(ii)

class interval	Cumulative Frequency
49 - 55	14
55 - 61	34
61 - 67	39
67 - 73	48
73 - 79	57

(iii)

class interval	Cumulative Frequency
49 - 55	14
55 - 61	23
61 - 67	28
67 - 73	37
73 - 79	57

(iv)

class interval	Cumulative Frequency
49 - 55	14
55 - 61	19
61 - 67	28
67 - 73	37
73 - 79	57

(v)

class interval	Cumulative Frequency
49 - 55	14
55 - 61	23
61 - 67	25
67 - 73	34
73 - 79	54

Find the cumulative frequency of class 69-78 .

9.

Class-Interval	39 - 48	49 - 58	59 - 68	69 - 78	79 - 88	89 - 98	99 - 108	109 - 118
Frequency	13	9	15	22	12	15	16	20

(i) 58 (ii) 62 (iii) 56 (iv) 59 (v) 60

Find the cumulative frequency of class 34-41 .

10.

Class-Interval	20 - 27	27 - 34	34 - 41	41 - 48
Frequency	6	10	8	19

(i) 24 (ii) 26 (iii) 22 (iv) 25 (v) 23

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

11.

Class-Interval	Cumulative Frequency
27 - 34	10
34 - 41	24
41 - 48	38
48 - 55	50
55 - 62	55
62 - 69	61
69 - 76	74
76 - 83	90

(i)

Class-Interval	27 - 34	34 - 41	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
Frequency	10	14	14	12	7	6	13	16

(ii)

Class-Interval	27 - 34	34 - 41	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
Frequency	10	14	19	12	5	6	13	16

(iii)

Class-Interval	27 - 34	34 - 41	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
Frequency	10	16	14	12	5	6	13	14

(iv)

Class-Interval	27 - 34	34 - 41	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
Frequency	10	14	14	12	5	6	13	16

(v)

Class-Interval	27 - 34	34 - 41	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
Frequency	10	14	12	14	5	6	13	16

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

12.

Class-Interval	Cumulative Frequency
25 - 34	86
34 - 43	79
43 - 52	68
52 - 61	55
61 - 70	48
70 - 79	32
79 - 88	20
88 - 97	12

(i)

Class-Interval	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
Frequency	7	11	13	7	16	12	8	12

(ii)

Class-Interval	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
Frequency	7	12	13	7	16	12	8	11

(iii)

Class-Interval	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
Frequency	7	11	17	7	16	12	8	12

(iv)

Class-Interval	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
Frequency	7	11	7	13	16	12	8	12

(v)

Class-Interval	25 - 34	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
Frequency	7	11	13	7	11	12	8	12

During the medical check-up of 33 students of a class, their weights in kgs are recorded as follows.

Identify the number of students whose weight is less than 49 kg

13.

Class-Interval	34 - 39	39 - 44	44 - 49	49 - 54
Frequency	9	5	12	7

(i) 28 (ii) 25 (iii) 27 (iv) 26 (v) 23

During the medical check-up of 51 students of a class, their weights in kgs are recorded as follows.

Identify the number of students whose weight is more than 48 kg

14.

Class-Interval	39 - 48	48 - 57	57 - 66	66 - 75	75 - 84	84 - 93
Frequency	5	9	7	8	12	10

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

Assignment Key

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