



Construct a frequency distribution table from the following cumulative frequency distribution

1.

Class-Interval	Cumulative Frequency
29 - 35	5
35 - 41	17
41 - 47	28
47 - 53	36
53 - 59	48

(i)

Class-Interval	29 - 35	35 - 41	41 - 47	47 - 53	53 - 59
Frequency	5	12	7	8	12

(ii)

Class-Interval	29 - 35	35 - 41	41 - 47	47 - 53	53 - 59
Frequency	5	12	11	8	12

(iii)

Class-Interval	29 - 35	35 - 41	41 - 47	47 - 53	53 - 59
Frequency	5	7	11	8	12

(iv)

Class-Interval	29 - 35	35 - 41	41 - 47	47 - 53	53 - 59
Frequency	5	11	12	8	12

Construct a frequency distribution table from the following cumulative frequency distribution

2.

Class-Interval	Cumulative Frequency
23 - 33	12
34 - 44	27
45 - 55	34
56 - 66	40
67 - 77	50

(i)

Class-Interval	23 - 33	34 - 44	45 - 55	56 - 66	67 - 77
Frequency	12	15	9	6	10

(ii)

Class-Interval	23 - 33	34 - 44	45 - 55	56 - 66	67 - 77
Frequency	12	12	7	6	10

(iii)

Class-Interval	23 - 33	34 - 44	45 - 55	56 - 66	67 - 77
Frequency	12	7	15	6	10

(iv)

Class-Interval	23 - 33	34 - 44	45 - 55	56 - 66	67 - 77
Frequency	12	15	7	6	10

(v)

Class-Interval	23 - 33	34 - 44	45 - 55	56 - 66	67 - 77
Frequency	12	10	7	6	15

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)	20 - 30	31 - 41	42 - 52	53 - 63
No. of Patients	42	79	41	58

(i)

Age (in years)	Cumulative Frequency
20 - 30	42
31 - 41	121
42 - 52	162
53 - 63	220

(ii)

Age (in years)	Cumulative Frequency
20 - 30	58
31 - 41	137
42 - 52	178
53 - 63	220

(iii)

Age (in years)	Cumulative Frequency
20 - 30	42
31 - 41	121
42 - 52	159
53 - 63	217

(iv)

Age (in years)	Cumulative Frequency
20 - 30	42
31 - 41	83
42 - 52	162
53 - 63	220

(v)

Age (in years)	Cumulative Frequency
20 - 30	42
31 - 41	125
42 - 52	166
53 - 63	224

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 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50
No. of Patients	37	14	65	69	19	88	68	38

(i)

Age (in years)	Cumulative Frequency
10 - 15	37
15 - 20	51
20 - 25	113
25 - 30	182
30 - 35	201
35 - 40	289
40 - 45	357
45 - 50	395

(ii)

Age (in years)	Cumulative Frequency
10 - 15	37
15 - 20	75
20 - 25	140
25 - 30	209
30 - 35	228
35 - 40	316
40 - 45	384
45 - 50	398

(iii)

Age (in years)	Cumulative Frequency
10 - 15	37
15 - 20	51
20 - 25	116
25 - 30	185
30 - 35	204
35 - 40	292
40 - 45	360
45 - 50	398

(iv)

Age (in years)	Cumulative Frequency
10 - 15	37
15 - 20	51
20 - 25	120
25 - 30	185
30 - 35	204
35 - 40	292
40 - 45	360
45 - 50	398

(v)

Age (in years)	Cumulative Frequency
10 - 15	37
15 - 20	51
20 - 25	116
25 - 30	185
30 - 35	202
35 - 40	290
40 - 45	358
45 - 50	396

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 - 330	331 - 361	362 - 392	393 - 423	424 - 454	455 - 485
Labourers	17	9	11	17	14	15

(i)

Wages (in rupees)	Cumulative Frequency
300 - 330	17
331 - 361	26
362 - 392	37
393 - 423	54
424 - 454	68
455 - 485	83

(ii)

Wages (in rupees)	Cumulative Frequency
300 - 330	17
331 - 361	26
362 - 392	32
393 - 423	49
424 - 454	63
455 - 485	78

(iii)

Wages (in rupees)	Cumulative Frequency
300 - 330	17
331 - 361	32
362 - 392	43
393 - 423	60
424 - 454	74
455 - 485	83

(iv)

Wages (in rupees)	Cumulative Frequency
300 - 330	17
331 - 361	26
362 - 392	37
393 - 423	50
424 - 454	64
455 - 485	79

(v)

Wages (in rupees)	Cumulative Frequency
300 - 330	17
331 - 361	28
362 - 392	37
393 - 423	54
424 - 454	68
455 - 485	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)	300 - 340	340 - 380	380 - 420	420 - 460	460 - 500	500 - 540
Labourers	2	13	20	20	13	20

(i)

Wages (in rupees)	Cumulative Frequency
300 - 340	2
340 - 380	22
380 - 420	35
420 - 460	55
460 - 500	68
500 - 540	88

(ii)

Wages (in rupees)	Cumulative Frequency
300 - 340	2
340 - 380	15
380 - 420	35
420 - 460	59
460 - 500	72
500 - 540	92

(iii)

Wages (in rupees)	Cumulative Frequency
300 - 340	2
340 - 380	15
380 - 420	35
420 - 460	55
460 - 500	68
500 - 540	88

(iv)

Wages (in rupees)	Cumulative Frequency
300 - 340	2
340 - 380	22
380 - 420	42
420 - 460	62
460 - 500	75
500 - 540	88

(v)

Wages (in rupees)	Cumulative Frequency
300 - 340	2
340 - 380	15
380 - 420	39
420 - 460	59
460 - 500	72
500 - 540	92

Identify the cumulative frequency of the given grouped data.

7.

class interval	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54	55 - 60
frequency	16	9	5	23	17	12

(i)

class interval	Cumulative Frequency
25 - 30	16
31 - 36	28
37 - 42	33
43 - 48	56
49 - 54	73
55 - 60	82

(ii)

class interval	Cumulative Frequency
25 - 30	16
31 - 36	21
37 - 42	30
43 - 48	53
49 - 54	70
55 - 60	82

(iii)

class interval	Cumulative Frequency
25 - 30	16
31 - 36	25
37 - 42	30
43 - 48	53
49 - 54	70
55 - 60	82

(iv)

class interval	Cumulative Frequency
25 - 30	16
31 - 36	25
37 - 42	26
43 - 48	49
49 - 54	66
55 - 60	78

(v)

class interval	Cumulative Frequency
25 - 30	16
31 - 36	25
37 - 42	30
43 - 48	57
49 - 54	74
55 - 60	86

Identify the cumulative frequency of the given grouped data.

8.

class interval	35 - 44	44 - 53	53 - 62	62 - 71	71 - 80	80 - 89
frequency	23	15	17	12	12	13

(i)

class interval	Cumulative Frequency
35 - 44	23
44 - 53	40
53 - 62	55
62 - 71	67
71 - 80	79
80 - 89	92

(ii)

class interval	Cumulative Frequency
35 - 44	23
44 - 53	38
53 - 62	52
62 - 71	64
71 - 80	76
80 - 89	89

(iii)

class interval	Cumulative Frequency
35 - 44	23
44 - 53	38
53 - 62	55
62 - 71	67
71 - 80	79
80 - 89	92

(iv)

class interval	Cumulative Frequency
35 - 44	23
44 - 53	36
53 - 62	53
62 - 71	65
71 - 80	77
80 - 89	92

(v)

class interval	Cumulative Frequency
35 - 44	23
44 - 53	38
53 - 62	55
62 - 71	62
71 - 80	74
80 - 89	87

Given class interval table, find the sum of frequencies.

9.

Class-Interval	19 - 28	28 - 37	37 - 46	46 - 55	55 - 64	64 - 73
Frequency	10	24	10	19	26	11

- (i) 97 (ii) 101 (iii) 99 (iv) 103 (v) 100

Find the cumulative frequency of class 61-67 .

10.

Class-Interval	19 - 25	26 - 32	33 - 39	40 - 46	47 - 53	54 - 60	61 - 67
Frequency	20	13	13	14	5	21	24

- (i) 108 (ii) 110 (iii) 109 (iv) 113 (v) 111

Find the cumulative frequency of class 31-36 .

11.

Class-Interval	11 - 16	16 - 21	21 - 26	26 - 31	31 - 36	36 - 41
Frequency	13	23	11	11	24	12

- (i) 82 (ii) 81 (iii) 79 (iv) 83 (v) 85

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

12.

Class-Interval	Cumulative Frequency
40 - 50	14
50 - 60	20
60 - 70	33
70 - 80	38
80 - 90	51
90 - 100	67
100 - 110	73

(i)

Class-Interval	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110
Frequency	14	6	13	10	13	16	6

(ii)

Class-Interval	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110
Frequency	14	6	18	5	13	16	6

(iii)

Class-Interval	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110
Frequency	14	13	6	5	13	16	6

(iv)

Class-Interval	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100	100 - 110
Frequency	14	6	13	5	13	16	6

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

13.

Class-Interval	Cumulative Frequency
26 - 34	101
34 - 42	91
42 - 50	79
50 - 58	67
58 - 66	53
66 - 74	37
74 - 82	27
82 - 90	16

(i)

Class-Interval	26 - 34	34 - 42	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90
Frequency	10	12	12	14	16	10	11	16

(ii)

Class-Interval	26 - 34	34 - 42	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90
Frequency	10	12	8	14	16	10	11	16

(iii)

Class-Interval	26 - 34	34 - 42	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90
Frequency	10	16	12	14	16	10	11	12

(iv)

Class-Interval	26 - 34	34 - 42	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90
Frequency	10	12	14	12	16	10	11	16

(v)

Class-Interval	26 - 34	34 - 42	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90
Frequency	10	12	12	14	18	10	11	16

During the medical check-up of 85 students of a class, their weights in kgs are recorded as follows. Identify the number of students whose weight is less than 88 kg

14.

Class-Interval	34 - 43	43 - 52	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97	97 - 106
Frequency	10	12	10	12	9	11	12	9

(i) 62 (ii) 64 (iii) 63 (iv) 65 (v) 66

During the medical check-up of 35 students of a class, their weights in kgs are recorded as follows. Identify the number of students whose weight is more than 41 kg

15.

Class-Interval	33 - 41	41 - 49	49 - 57	57 - 65
Frequency	10	11	5	9

(i) 25 (ii) 28 (iii) 26 (iv) 24 (v) 22

Assignment Key

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