

EduSahara™ Learning Center Assignment

Grade : Class VIII, SSC
Chapter : Frequency Distribution Tables and Graphs
Name : Constructing Class Interval Tables
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The marks obtained by 16 students in an examination are given below.

Represent the data in the form of a frequency distribution table

1. in inclusive form taking class size 5 .

49 , 44 , 67 , 50 , 46 , 61 , 43 , 64 , 52 , 79 , 52 , 44 , 71 , 44 , 75
52

(i)

Marks	43 - 47	48 - 52	53 - 57	58 - 62	63 - 67	68 - 72	73 - 77	78 - 82
No. of Students	5	5	0	1	2	1	1	1

(ii)

Marks	43 - 47	48 - 52	53 - 57	58 - 62	63 - 67	68 - 72	73 - 77	78 - 82
No. of Students	5	1	0	1	2	1	1	5

(iii)

Marks	43 - 47	48 - 52	53 - 57	58 - 62	63 - 67	68 - 72	73 - 77	78 - 82
No. of Students	5	5	5	1	2	1	1	1

(iv)

Marks	43 - 47	48 - 52	53 - 57	58 - 62	63 - 67	68 - 72	73 - 77	78 - 82
No. of Students	5	5	1	0	2	1	1	1

(v)

Marks	43 - 47	48 - 52	53 - 57	58 - 62	63 - 67	68 - 72	73 - 77	78 - 82
No. of Students	5	5	0	1	6	1	1	1

The marks obtained by 16 students in an examination are given below.

Represent the data in the form of a frequency distribution table

2. in exclusive form taking class size 7 .

43 , 60 , 76 , 63 , 76 , 74 , 46 , 80 , 60 , 78 , 77 , 71 , 73 , 58 , 69
52

(i)

Marks	43 - 50	50 - 57	57 - 64	64 - 71	71 - 78	78 - 85
No. of Students	2	1	4	6	6	2

(ii)	Marks	43 - 50	50 - 57	57 - 64	64 - 71	71 - 78	78 - 85
	No. of Students	2	1	1	1	6	2

(iii)	Marks	43 - 50	50 - 57	57 - 64	64 - 71	71 - 78	78 - 85
	No. of Students	2	1	4	1	6	2

(iv)	Marks	43 - 50	50 - 57	57 - 64	64 - 71	71 - 78	78 - 85
	No. of Students	2	4	1	1	6	2

(v)	Marks	43 - 50	50 - 57	57 - 64	64 - 71	71 - 78	78 - 85
	No. of Students	2	2	4	1	6	1

The marks obtained by 17 students in an examination are given below.

Represent the data in the form of a frequency distribution table

3. in exclusive form taking class size 7 .

80 , 45 , 55 , 65 , 51 , 51 , 41 , 40 , 51 , 70 , 40 , 48 , 74 , 67 , 50
60 , 58

(i)	Marks	40 - 47	47 - 54	54 - 61	61 - 68	68 - 75	75 - 82
	No. of Students	4	5	1	2	2	1

(ii)	Marks	40 - 47	47 - 54	54 - 61	61 - 68	68 - 75	75 - 82
	No. of Students	4	5	3	2	2	1

(iii)	Marks	40 - 47	47 - 54	54 - 61	61 - 68	68 - 75	75 - 82
	No. of Students	4	1	3	2	2	5

(iv)	Marks	40 - 47	47 - 54	54 - 61	61 - 68	68 - 75	75 - 82
	No. of Students	4	3	5	2	2	1

(v)	Marks	40 - 47	47 - 54	54 - 61	61 - 68	68 - 75	75 - 82
	No. of Students	4	5	3	4	2	1

Construct a frequency table in exclusive form for the following

ages (in years) of 18 students, taking class size 3 .

4. 15 , 17 , 16 , 15 , 14 , 11 , 15 , 11 , 22 , 22 , 19 , 10 , 13 , 15 , 22
18 , 14 , 25

(i)

Age (in years)	10 - 13	13 - 16	16 - 19	19 - 22	22 - 25	25 - 28
No. of Students	3	7	7	1	3	1

(ii)

Age (in years)	10 - 13	13 - 16	16 - 19	19 - 22	22 - 25	25 - 28
No. of Students	3	3	7	1	3	1

(iii)

Age (in years)	10 - 13	13 - 16	16 - 19	19 - 22	22 - 25	25 - 28
No. of Students	3	1	3	1	3	7

(iv)

Age (in years)	10 - 13	13 - 16	16 - 19	19 - 22	22 - 25	25 - 28
No. of Students	3	7	3	1	3	1

(v)

Age (in years)	10 - 13	13 - 16	16 - 19	19 - 22	22 - 25	25 - 28
No. of Students	3	7	3	4	3	1

The daily wages (in rupees) of 17 workers in a factory are given below.

Represent the data in the form of a frequency distribution in inclusive form

5. taking class size 30 .

225 , 250 , 275 , 217 , 250 , 207 , 288 , 269 , 289 , 227

258 , 255 , 270 , 270 , 235 , 237 , 251

(i)

Wages (in rupees)	207 - 236	237 - 266	267 - 296
No. of Workers	5	6	6

(ii)

Wages (in rupees)	207 - 236	237 - 266	267 - 296
No. of Workers	6	5	6

(iii)

Wages (in rupees)	207 - 236	237 - 266	267 - 296
No. of Workers	5	11	6

(iv)

Wages (in rupees)	207 - 236	237 - 266	267 - 296
No. of Workers	6	6	5

(v)

Wages (in rupees)	207 - 236	237 - 266	267 - 296
No. of Workers	5	3	6

6. The daily wages (in rupees) of 15 workers in a factory are given below.

Represent the data in the form of a frequency distribution in exclusive form

taking class size 20 .

283 , 215 , 279 , 270 , 294 , 215 , 271 , 271 , 225 , 284
270 , 256 , 297 , 218 , 222

(i)

Wages (in rupees)	215 - 235	235 - 255	255 - 275	275 - 295	295 - 315
No. of Workers	5	0	9	4	1

(ii)

Wages (in rupees)	215 - 235	235 - 255	255 - 275	275 - 295	295 - 315
No. of Workers	5	1	5	4	0

(iii)

Wages (in rupees)	215 - 235	235 - 255	255 - 275	275 - 295	295 - 315
No. of Workers	5	2	5	4	1

(iv)

Wages (in rupees)	215 - 235	235 - 255	255 - 275	275 - 295	295 - 315
No. of Workers	5	0	5	4	1

(v)

Wages (in rupees)	215 - 235	235 - 255	255 - 275	275 - 295	295 - 315
No. of Workers	5	5	0	4	1

The weights (in gm) of 15 fruits are as follows.

Form the grouped frequency table in inclusive form by taking class size 50 .

7.

348 , 265 , 253 , 312 , 277 , 249 , 252 , 211 , 325 , 235
306 , 393 , 379 , 233 , 319

(i)

Weight (in gm)	211 - 260	261 - 310	311 - 360	361 - 410
No. of Fruits	6	3	7	2

(ii)

Weight (in gm)	211 - 260	261 - 310	311 - 360	361 - 410
No. of Fruits	6	5	4	2

(iii)

Weight (in gm)	211 - 260	261 - 310	311 - 360	361 - 410
No. of Fruits	6	3	4	2

(iv)

Weight (in gm)	211 - 260	261 - 310	311 - 360	361 - 410
No. of Fruits	2	3	4	6

(v)

Weight (in gm)	211 - 260	261 - 310	311 - 360	361 - 410
No. of Fruits	6	4	3	2

The weights (in gm) of 20 fruits are as follows.

Form the grouped frequency table in exclusive form by taking class size 40 .

8. 386 , 243 , 228 , 325 , 365 , 231 , 330 , 400 , 304 , 245
226 , 311 , 393 , 388 , 325 , 247 , 263 , 341 , 287 , 248

(i)

Weight (in gm)	226 - 266	266 - 306	306 - 346	346 - 386	386 - 426
No. of Fruits	8	4	5	1	2

(ii)

Weight (in gm)	226 - 266	266 - 306	306 - 346	346 - 386	386 - 426
No. of Fruits	8	2	5	1	4

(iii)

Weight (in gm)	226 - 266	266 - 306	306 - 346	346 - 386	386 - 426
No. of Fruits	8	7	5	1	4

(iv)

Weight (in gm)	226 - 266	266 - 306	306 - 346	346 - 386	386 - 426
No. of Fruits	8	2	2	1	4

(v)

Weight (in gm)	226 - 266	266 - 306	306 - 346	346 - 386	386 - 426
No. of Fruits	8	5	2	1	4

Given the sample data, prepare the class interval table in

inclusive form with 1 as min value and a class size of 9 .

9. 47 , 23 , 26 , 49 , 30 , 50 , 24 , 5 , 1 , 18 , 1 , 32 , 20 , 40 , 3
22 , 3 , 44 , 19

(i)

Class-Interval	1 - 9	10 - 18	19 - 27	28 - 36	37 - 45	46 - 54
Frequency	5	6	1	2	2	3

(ii)

Class-Interval	1 - 9	10 - 18	19 - 27	28 - 36	37 - 45	46 - 54
Frequency	5	1	11	2	2	3

(iii)

Class-Interval	1 - 9	10 - 18	19 - 27	28 - 36	37 - 45	46 - 54
Frequency	5	3	6	2	2	1

(iv)

Class-Interval	1 - 9	10 - 18	19 - 27	28 - 36	37 - 45	46 - 54
Frequency	5	1	6	2	2	3

(v)

Class-Interval	1 - 10	10 - 19	19 - 28	28 - 37	37 - 46	46 - 55
Frequency	5	1	6	2	2	3

Given the sample data, prepare the class interval table in exclusive form with 3 as min value and a class size of 10 .

10. 38 , 37 , 3 , 11 , 35 , 26 , 35 , 33 , 45 , 7 , 24 , 3 , 10 , 41 , 24
49 , 48

(i)

Class-Interval	3 - 13	13 - 23	23 - 33	33 - 43	43 - 53
Frequency	5	3	0	6	3

(ii)

Class-Interval	3 - 13	13 - 23	23 - 33	33 - 43	43 - 53
Frequency	5	3	3	6	3

(iii)

Class-Interval	3 - 13	13 - 23	23 - 33	33 - 43	43 - 53
Frequency	5	0	3	6	3

(iv)

Class-Interval	3 - 12	13 - 22	23 - 32	33 - 42	43 - 52
Frequency	5	0	3	6	3

(v)

Class-Interval	3 - 13	13 - 23	23 - 33	33 - 43	43 - 53
Frequency	5	3	3	6	0

Assignment Key

- 1) (i)
- 2) (iii)
- 3) (ii)
- 4) (iv)
- 5) (i)
- 6) (iv)
- 7) (iii)
- 8) (ii)
- 9) (iv)
- 10) (iii)