

EduSahara™ Learning Center Assignment

Grade : Class VIII, ICSE
Chapter : Statistics
Name : Constructing Class Interval Tables
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The marks obtained by 18 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 7 .

41 , 61 , 75 , 58 , 77 , 70 , 66 , 58 , 72 , 69 , 56 , 73 , 67 , 77 , 72
63 , 40 , 77

(i)

Marks	40 - 46	47 - 53	54 - 60	61 - 67	68 - 74	75 - 81
No. of Students	2	4	3	4	5	0

(ii)

Marks	40 - 46	47 - 53	54 - 60	61 - 67	68 - 74	75 - 81
No. of Students	2	0	3	9	5	4

(iii)

Marks	40 - 46	47 - 53	54 - 60	61 - 67	68 - 74	75 - 81
No. of Students	2	3	0	4	5	4

(iv)

Marks	40 - 46	47 - 53	54 - 60	61 - 67	68 - 74	75 - 81
No. of Students	2	0	7	4	5	4

(v)

Marks	40 - 46	47 - 53	54 - 60	61 - 67	68 - 74	75 - 81
No. of Students	2	0	3	4	5	4

The marks obtained by 17 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 .

77 , 49 , 79 , 52 , 60 , 67 , 44 , 57 , 56 , 68 , 41 , 70 , 44 , 69 , 74
49 , 77

(i)

Marks	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
No. of Students	3	3	3	2	3	3

(ii)

Marks	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
No. of Students	3	3	6	2	3	3

(iii)

Marks	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
No. of Students	3	3	3	5	3	3

The marks obtained by 15 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 5 .

80 , 42 , 53 , 71 , 78 , 68 , 65 , 41 , 58 , 48 , 71 , 47 , 69 , 41 , 50

(i)

Marks	41 - 46	46 - 51	51 - 56	56 - 61	61 - 66	66 - 71	71 - 76	76 - 81
No. of Students	3	3	1	1	6	2	2	2

(ii)

Marks	41 - 46	46 - 51	51 - 56	56 - 61	61 - 66	66 - 71	71 - 76	76 - 81
No. of Students	3	2	1	1	1	2	2	3

(iii)

Marks	41 - 46	46 - 51	51 - 56	56 - 61	61 - 66	66 - 71	71 - 76	76 - 81
No. of Students	3	3	1	1	1	2	2	2

(iv)

Marks	41 - 46	46 - 51	51 - 56	56 - 61	61 - 66	66 - 71	71 - 76	76 - 81
No. of Students	3	3	6	1	1	2	2	2

Construct a frequency table in exclusive form for the following

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

4. 17 , 16 , 24 , 17 , 11 , 14 , 11 , 16 , 16 , 23 , 25 , 22 , 15 , 15 , 24
11 , 16 , 22

(i)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	7	2	2	4

(ii)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	2	7	2	4

(iii)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	4	2	2	4

(iv)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	4	2	2	7

(v)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	7	7	2	4

The daily wages (in rupees) of 20 workers in a factory are given below.

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

5. taking class size 20 .

256 , 205 , 249 , 218 , 218 , 229 , 249 , 270 , 247 , 294

223 , 245 , 269 , 252 , 288 , 269 , 208 , 284 , 270 , 266

(i)

Wages (in rupees)	205 - 224	225 - 244	245 - 264	265 - 284	285 - 304
No. of Workers	5	2	6	6	1

(ii)

Wages (in rupees)	205 - 224	225 - 244	245 - 264	265 - 284	285 - 304
No. of Workers	5	6	6	6	2

(iii)

Wages (in rupees)	205 - 224	225 - 244	245 - 264	265 - 284	285 - 304
No. of Workers	5	6	1	6	2

(iv)

Wages (in rupees)	205 - 224	225 - 244	245 - 264	265 - 284	285 - 304
No. of Workers	5	1	6	6	2

(v)

Wages (in rupees)	205 - 224	225 - 244	245 - 264	265 - 284	285 - 304
No. of Workers	5	1	2	6	2

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 exclusive form

6. taking class size 30 .

228 , 258 , 290 , 287 , 259 , 235 , 251 , 296 , 212 , 296

269 , 295 , 228 , 259 , 227 , 203 , 201

(i)

Wages (in rupees)	201 - 231	231 - 261	261 - 291	291 - 321
No. of Workers	6	10	3	3

(ii)

Wages (in rupees)	201 - 231	231 - 261	261 - 291	291 - 321
No. of Workers	6	5	1	3

(iii)

Wages (in rupees)	201 - 231	231 - 261	261 - 291	291 - 321
No. of Workers	6	3	5	3

(iv)

Wages (in rupees)	201 - 231	231 - 261	261 - 291	291 - 321
No. of Workers	6	5	3	3

(v)

Wages (in rupees)	201 - 231	231 - 261	261 - 291	291 - 321
No. of Workers	3	5	3	6

The weights (in gm) of 18 fruits are as follows.

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

7.

213 , 202 , 332 , 305 , 253 , 385 , 332 , 208 , 241 , 322

218 , 235 , 219 , 256 , 366 , 394 , 208 , 255

(i)

Weight (in gm)	202 - 251	252 - 301	302 - 351	352 - 401
No. of Fruits	8	4	3	3

(ii)

Weight (in gm)	202 - 251	252 - 301	302 - 351	352 - 401
No. of Fruits	8	7	4	3

(iii)

Weight (in gm)	202 - 251	252 - 301	302 - 351	352 - 401
No. of Fruits	8	3	4	3

(iv)

Weight (in gm)	202 - 251	252 - 301	302 - 351	352 - 401
No. of Fruits	3	3	4	8

(v)

Weight (in gm)	202 - 251	252 - 301	302 - 351	352 - 401
No. of Fruits	8	3	7	3

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

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

8.

292 , 331 , 307 , 304 , 331 , 255 , 398 , 283 , 373 , 278

339 , 335 , 243 , 381 , 315 , 387 , 369 , 255 , 309 , 324

(i)

Weight (in gm)	243 - 293	293 - 343	343 - 393	393 - 443
No. of Fruits	6	9	4	1

(ii)

Weight (in gm)	243 - 293	293 - 343	343 - 393	393 - 443
No. of Fruits	1	9	4	6

(iii)

Weight (in gm)	243 - 293	293 - 343	343 - 393	393 - 443
No. of Fruits	6	13	4	1

(iv)

Weight (in gm)	243 - 293	293 - 343	343 - 393	393 - 443
No. of Fruits	6	4	9	1

(v)

Weight (in gm)	243 - 293	293 - 343	343 - 393	393 - 443
No. of Fruits	6	9	8	1

Given the sample data, prepare the class interval table in

inclusive form with 6 as min value and a class size of 8 .

9.

20 , 7 , 46 , 27 , 6 , 38 , 19 , 50 , 22 , 39 , 22 , 24 , 19 , 46 , 16
18 , 22 , 25 , 34 , 49

(i)

Class-Interval	6 - 13	14 - 21	22 - 29	30 - 37	38 - 45	46 - 53
Frequency	2	5	6	1	2	4

(ii)

Class-Interval	6 - 13	14 - 21	22 - 29	30 - 37	38 - 45	46 - 53
Frequency	2	4	6	1	2	5

(iii)

Class-Interval	6 - 14	14 - 22	22 - 30	30 - 38	38 - 46	46 - 54
Frequency	2	5	6	1	2	4

(iv)

Class-Interval	6 - 13	14 - 21	22 - 29	30 - 37	38 - 45	46 - 53
Frequency	2	5	9	1	2	4

(v)

Class-Interval	6 - 13	14 - 21	22 - 29	30 - 37	38 - 45	46 - 53
Frequency	2	6	5	1	2	4

Given the sample data, prepare the class interval table in

exclusive form with 3 as min value and a class size of 5 .

10.

3 , 17 , 3 , 27 , 33 , 20 , 36 , 5 , 6 , 41 , 31 , 39 , 24 , 26 , 23
23 , 21 , 40

(i)

Class-Interval	3 - 8	8 - 13	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	4	0	3	2	5	1	2	3

(ii)

Class-Interval	3 - 8	8 - 13	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	4	3	1	2	5	1	2	0

(iii)

Class-Interval	3 - 7	8 - 12	13 - 17	18 - 22	23 - 27	28 - 32	33 - 37	38 - 42
Frequency	4	0	1	2	5	1	2	3

(iv)

Class-Interval	3 - 8	8 - 13	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	4	0	2	1	5	1	2	3

(v)

Class-Interval	3 - 8	8 - 13	13 - 18	18 - 23	23 - 28	28 - 33	33 - 38	38 - 43
Frequency	4	0	1	2	5	1	2	3

Assignment Key

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