

EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Frequency Distribution****Name : Class Interval Table Construction**

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 6 .

56 , 45 , 53 , 63 , 78 , 62 , 48 , 70 , 47 , 76 , 57 , 77 , 70 , 44 , 63
57

(i)

Marks	44 - 49	50 - 55	56 - 61	62 - 67	68 - 73	74 - 79
No. of Students	4	3	3	3	2	1

(ii)

Marks	44 - 49	50 - 55	56 - 61	62 - 67	68 - 73	74 - 79
No. of Students	4	1	7	3	2	3

(iii)

Marks	44 - 49	50 - 55	56 - 61	62 - 67	68 - 73	74 - 79
No. of Students	4	1	3	3	2	3

(iv)

Marks	44 - 49	50 - 55	56 - 61	62 - 67	68 - 73	74 - 79
No. of Students	4	3	1	3	2	3

(v)

Marks	44 - 49	50 - 55	56 - 61	62 - 67	68 - 73	74 - 79
No. of Students	4	1	3	8	2	3

The marks obtained by 15 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 8 .

44 , 48 , 53 , 47 , 46 , 42 , 43 , 59 , 74 , 59 , 66 , 46 , 58 , 49 , 68

(i)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	8	3	1	2	1

(ii)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	8	1	5	2	1

(iii)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	8	1	3	2	1

(iv)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	8	6	3	2	1

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

Represent the data in the form of a frequency distribution table

in exclusive form taking class size 6 .

58 , 48 , 62 , 65 , 45 , 59 , 72 , 69 , 71 , 43 , 79 , 43 , 54 , 61 , 60
56 , 59

(i)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	4	5	1	3	3	0	1

(ii)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	4	1	10	3	3	0	1

(iii)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	4	1	5	7	3	0	1

(iv)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	4	1	5	3	3	0	1

Construct a frequency table in exclusive form for the following

ages (in years) of 16 students, taking class size 4 .

4. 13 , 21 , 16 , 21 , 13 , 10 , 13 , 13 , 24 , 18 , 21 , 25 , 20 , 16 , 24
13

(i)

Age (in years)	10 - 14	14 - 18	18 - 22	22 - 26
No. of Students	6	2	3	3

(ii)

Age (in years)	10 - 14	14 - 18	18 - 22	22 - 26
No. of Students	3	2	5	6

(iii)

Age (in years)	10 - 14	14 - 18	18 - 22	22 - 26
No. of Students	6	2	5	3

(iv)

Age (in years)	10 - 14	14 - 18	18 - 22	22 - 26
No. of Students	6	5	2	3

(v)

Age (in years)	10 - 14	14 - 18	18 - 22	22 - 26
No. of Students	6	5	5	3

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 20 .

210 , 298 , 255 , 275 , 254 , 267 , 284 , 214 , 285 , 208
300 , 248 , 281 , 283 , 276 , 279 , 203

(i)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302
No. of Workers	4	5	3	5	0

(ii)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302

No. of Workers	4	3	0	5	5
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(iii)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302
No. of Workers	4	0	3	5	5

(iv)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302
No. of Workers	4	5	3	5	5

(v)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302
No. of Workers	4	0	6	5	5

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 exclusive form

6. taking class size 30 .

270 , 292 , 286 , 234 , 205 , 206 , 256 , 250 , 248 , 238

249 , 294 , 225 , 237 , 257 , 249 , 242 , 264 , 241 , 206

(i)

Wages (in rupees)	205 - 235	235 - 265	265 - 295
No. of Workers	5	14	4

(ii)

Wages (in rupees)	205 - 235	235 - 265	265 - 295
No. of Workers	5	7	4

(iii)

Wages (in rupees)	205 - 235	235 - 265	265 - 295
No. of Workers	4	11	5

(iv)

Wages (in rupees)	205 - 235	235 - 265	265 - 295
No. of Workers	5	11	4

(v)

Wages (in rupees)	205 - 235	235 - 265	265 - 295
No. of Workers	11	5	4

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

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

7.

232 , 246 , 400 , 237 , 290 , 260 , 207 , 382 , 247 , 308

216 , 344 , 282 , 350 , 309 , 399 , 395 , 310 , 341 , 283

(i)

Weight (in gm)	207 - 256	257 - 306	307 - 356	357 - 406
No. of Fruits	6	6	4	4

(ii)

Weight (in gm)	207 - 256	257 - 306	307 - 356	357 - 406
No. of Fruits	6	4	6	4

(iii)

Weight (in gm)	207 - 256	257 - 306	307 - 356	357 - 406
No. of Fruits	6	4	2	4

(iv)

Weight (in gm)	207 - 256	257 - 306	307 - 356	357 - 406

No. of Fruits	4	4	6	6
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(v)

Weight (in gm)	207 - 256	257 - 306	307 - 356	357 - 406
No. of Fruits	6	1	6	4

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

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

8.

320 , 398 , 385 , 283 , 251 , 259 , 251 , 329 , 381 , 347
235 , 380 , 351 , 389 , 237 , 324 , 204 , 200

(i)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	4	3	5	5	5

(ii)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	4	3	1	5	5

(iii)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	4	1	3	5	5

(iv)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	4	5	1	5	3

(v)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	4	5	1	5	5

Given the sample data, prepare the class interval table in

inclusive form with 4 as min value and a class size of 7 .

9.

16 , 49 , 9 , 33 , 20 , 4 , 42 , 40 , 18 , 34 , 30 , 21 , 6 , 9 , 27
42 , 9 , 26 , 31

(i)

Class-Interval	4 - 10	11 - 17	18 - 24	25 - 31	32 - 38	39 - 45	46 - 52
Frequency	5	1	3	4	2	3	1

(ii)

Class-Interval	4 - 10	11 - 17	18 - 24	25 - 31	32 - 38	39 - 45	46 - 52
Frequency	5	3	1	4	2	3	1

(iii)

Class-Interval	4 - 10	11 - 17	18 - 24	25 - 31	32 - 38	39 - 45	46 - 52
Frequency	5	1	8	4	2	3	1

(iv)

Class-Interval	4 - 11	11 - 18	18 - 25	25 - 32	32 - 39	39 - 46	46 - 53
Frequency	5	1	3	4	2	3	1

10. Given the sample data, prepare the class interval table in

exclusive form with 2 as min value and a class size of 5 .

41 , 4 , 16 , 24 , 12 , 13 , 47 , 43 , 38 , 2 , 9 , 23 , 38 , 3 , 12
47 , 35 , 26 , 31

(i)

Class-Interval	2 - 7	7 - 12	12 - 17	17 - 22	22 - 27	27 - 32	32 - 37	37 - 42	42 - 47	47 - 52
Frequency	3	1	4	3	3	1	1	3	1	2

(ii)

Class-Interval	2 - 7	7 - 12	12 - 17	17 - 22	22 - 27	27 - 32	32 - 37	37 - 42	42 - 47	47 - 52
Frequency	3	1	4	0	3	1	1	3	1	2

(iii)

Class-Interval	2 - 7	7 - 12	12 - 17	17 - 22	22 - 27	27 - 32	32 - 37	37 - 42	42 - 47	47 - 52
Frequency	3	1	0	4	3	1	1	3	1	2

(iv)

Class-Interval	2 - 7	7 - 12	12 - 17	17 - 22	22 - 27	27 - 32	32 - 37	37 - 42	42 - 47	47 - 52
Frequency	3	4	1	0	3	1	1	3	1	2

(v)

Class-Interval	2 - 6	7 - 11	12 - 16	17 - 21	22 - 26	27 - 31	32 - 36	37 - 41	42 - 46	47 - 51
Frequency	3	1	4	0	3	1	1	3	1	2

Assignment Key

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