

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

The marks obtained by 17 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 8 .

51 , 57 , 65 , 59 , 42 , 61 , 45 , 71 , 57 , 72 , 44 , 78 , 73 , 79 , 59
48 , 52

(i)

Marks	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81
No. of Students	4	2	4	3	4

(ii)

Marks	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81
No. of Students	4	4	2	3	2

(iii)

Marks	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81
No. of Students	4	4	4	3	2

(iv)

Marks	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81
No. of Students	4	9	4	3	2

The marks obtained by 20 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 .

47 , 69 , 54 , 58 , 62 , 55 , 50 , 50 , 79 , 75 , 76 , 59 , 76 , 67 , 76
62 , 73 , 61 , 52 , 73

(i)

Marks	47 - 55	55 - 63	63 - 71	71 - 79	79 - 87
No. of Students	5	6	2	6	1

(ii)

Marks	47 - 55	55 - 63	63 - 71	71 - 79	79 - 87
No. of Students	5	6	4	6	1

(iii)

Marks	47 - 55	55 - 63	63 - 71	71 - 79	79 - 87
No. of Students	5	8	2	6	1

(iv)

Marks	47 - 55	55 - 63	63 - 71	71 - 79	79 - 87
No. of Students	5	1	2	6	6

(v)

Marks	47 - 55	55 - 63	63 - 71	71 - 79	79 - 87
No. of Students	5	2	6	6	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 5 .

66 , 45 , 40 , 69 , 45 , 64 , 75 , 42 , 49 , 80 , 42 , 70 , 46 , 49 , 73

69 , 45

(i)

Marks	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85
No. of Students	3	1	0	0	1	3	2	1	6

(ii)

Marks	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85
No. of Students	3	6	0	3	1	3	2	1	1

(iii)

Marks	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85
No. of Students	3	6	0	0	4	3	2	1	1

(iv)

Marks	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	70 - 75	75 - 80	80 - 85
No. of Students	3	6	0	0	1	3	2	1	1

Construct a frequency table in exclusive form for the following

ages (in years) of 17 students, taking class size 2 .

4.

15 , 11 , 16 , 12 , 18 , 13 , 24 , 11 , 21 , 10 , 18 , 15 , 14 , 16 , 11

19 , 14

(i)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	4	2	2	4	3	1	0	1

(ii)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	4	1	4	2	3	1	0	2

(iii)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	4	2	4	2	1	1	0	1

(iv)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	4	2	7	2	3	1	0	1

(v)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	4	2	4	2	3	1	0	1

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 inclusive form

5. taking class size 20 .

259 , 284 , 209 , 266 , 280 , 274 , 233 , 248 , 248 , 251

292 , 295 , 273 , 227 , 245

(i)

Wages (in rupees)	209 - 228	229 - 248	249 - 268	269 - 288	289 - 308
No. of Workers	2	4	8	4	2

(ii)

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Wages (in rupees)	209 - 228	229 - 248	249 - 268	269 - 288	289 - 308
No. of Workers	2	2	3	4	4

(iii)

Wages (in rupees)	209 - 228	229 - 248	249 - 268	269 - 288	289 - 308
No. of Workers	2	3	4	4	2

(iv)

Wages (in rupees)	209 - 228	229 - 248	249 - 268	269 - 288	289 - 308
No. of Workers	2	4	3	4	2

(v)

Wages (in rupees)	209 - 228	229 - 248	249 - 268	269 - 288	289 - 308
No. of Workers	2	6	3	4	2

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 20 .

215 , 300 , 273 , 251 , 258 , 251 , 290 , 291 , 253 , 232

266 , 218 , 271 , 225 , 229 , 260 , 267 , 211 , 231 , 225

(i)

Wages (in rupees)	211 - 231	231 - 251	251 - 271	271 - 291	291 - 311
No. of Workers	6	5	7	3	2

(ii)

Wages (in rupees)	211 - 231	231 - 251	251 - 271	271 - 291	291 - 311
No. of Workers	6	7	2	3	2

(iii)

Wages (in rupees)	211 - 231	231 - 251	251 - 271	271 - 291	291 - 311
No. of Workers	6	2	12	3	2

(iv)

Wages (in rupees)	211 - 231	231 - 251	251 - 271	271 - 291	291 - 311
No. of Workers	6	2	7	3	2

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

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

7.

245 , 251 , 235 , 228 , 399 , 220 , 365 , 390 , 293 , 311

379 , 350 , 238 , 271 , 241

(i)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	3	3	2	7

(ii)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	7	6	2	3

(iii)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	7	3	4	3

(iv)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	7	2	3	3

(v)

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Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	7	3	2	3

The weights (in gm) of 19 fruits are as follows.

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

8. 373 , 287 , 395 , 232 , 379 , 333 , 397 , 256 , 274 , 211
294 , 203 , 360 , 284 , 394 , 218 , 269 , 384 , 240

(i)

Weight (in gm)	203 - 253	253 - 303	303 - 353	353 - 403
No. of Fruits	7	6	1	5

(ii)

Weight (in gm)	203 - 253	253 - 303	303 - 353	353 - 403
No. of Fruits	5	1	6	7

(iii)

Weight (in gm)	203 - 253	253 - 303	303 - 353	353 - 403
No. of Fruits	5	6	1	7

(iv)

Weight (in gm)	203 - 253	253 - 303	303 - 353	353 - 403
No. of Fruits	5	6	3	7

(v)

Weight (in gm)	203 - 253	253 - 303	303 - 353	353 - 403
No. of Fruits	5	8	1	7

Given the sample data, prepare the class interval table in

inclusive form with 8 as min value and a class size of 10 .

9. 29 , 29 , 10 , 23 , 14 , 40 , 37 , 33 , 19 , 36 , 33 , 18 , 21 , 8 , 26
21 , 44

(i)

Class-Interval	8 - 17	18 - 27	28 - 37	38 - 47
Frequency	3	6	6	2

(ii)

Class-Interval	8 - 17	18 - 27	28 - 37	38 - 47
Frequency	3	9	6	2

(iii)

Class-Interval	8 - 17	18 - 27	28 - 37	38 - 47
Frequency	2	6	6	3

(iv)

Class-Interval	8 - 18	18 - 28	28 - 38	38 - 48
Frequency	3	6	6	2

Given the sample data, prepare the class interval table in

exclusive form with 2 as min value and a class size of 7 .

10. 37 , 9 , 39 , 47 , 9 , 38 , 9 , 28 , 18 , 12 , 20 , 32 , 46 , 39 , 23
2 , 20 , 24 , 14 , 38

(i)

Class-Interval	2 - 9	9 - 16	16 - 23	23 - 30	30 - 37	37 - 44	44 - 51
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Frequency	1	5	8	3	1	5	2
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(ii)

Class-Interval	2 - 8	9 - 15	16 - 22	23 - 29	30 - 36	37 - 43	44 - 50
Frequency	1	5	3	3	1	5	2

(iii)

Class-Interval	2 - 9	9 - 16	16 - 23	23 - 30	30 - 37	37 - 44	44 - 51
Frequency	1	3	5	3	1	5	2

(iv)

Class-Interval	2 - 9	9 - 16	16 - 23	23 - 30	30 - 37	37 - 44	44 - 51
Frequency	1	5	3	3	1	5	2

(v)

Class-Interval	2 - 9	9 - 16	16 - 23	23 - 30	30 - 37	37 - 44	44 - 51
Frequency	1	2	3	3	1	5	5

Assignment Key

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