

EduSahara™ Learning Center Assignment**Grade : Class IX, SSC****Chapter : Statistics****Name : Constructing Class Interval Tables**

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 5 .

51 , 49 , 50 , 75 , 61 , 69 , 44 , 53 , 57 , 58 , 71 , 46 , 58 , 67 , 80
79 , 71 , 50

(i)

Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
No. of Students	2	5	3	1	6	3	1	2

(ii)

Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
No. of Students	2	2	3	1	1	3	1	5

(iii)

Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
No. of Students	2	5	1	3	1	3	1	2

(iv)

Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
No. of Students	2	5	8	1	1	3	1	2

(v)

Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
No. of Students	2	5	3	1	1	3	1	2

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 8 .

63 , 47 , 45 , 77 , 42 , 77 , 42 , 69 , 49 , 62 , 75 , 48 , 66 , 79 , 52
63 , 44

(i)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	7	4	3	2	4

(ii)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	7	1	3	2	4

(iii)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	7	4	3	2	1

(iv)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	7	1	8	2	4

(v)

Marks	42 - 50	50 - 58	58 - 66	66 - 74	74 - 82
No. of Students	7	3	1	2	4

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 7 .

68 , 71 , 66 , 73 , 51 , 76 , 61 , 63 , 65 , 42 , 61 , 79 , 54 , 41 , 57

(i)

Marks	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
No. of Students	2	2	3	7	2	2

(ii)

Marks	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
No. of Students	2	2	1	4	2	2

(iii)

Marks	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
No. of Students	2	3	2	4	2	2

(iv)

Marks	41 - 48	48 - 55	55 - 62	62 - 69	69 - 76	76 - 83
No. of Students	2	2	3	4	2	2

Construct a frequency table in exclusive form for the following ages (in years) of 19 students, taking class size 3 .

4. 19 , 20 , 24 , 21 , 16 , 25 , 18 , 23 , 18 , 20 , 24 , 16 , 15 , 20 , 15
17 , 11 , 16 , 16

(i)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	1	8	4	4	4

(ii)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	1	4	4	4	6

(iii)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	1	6	9	4	4

(iv)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	1	6	4	4	4

(v)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	1	4	6	4	4

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 .

288 , 223 , 295 , 226 , 292 , 239 , 227 , 232 , 204 , 206

208 , 256 , 203 , 286 , 224 , 248 , 258

(i)

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

No. of Workers	4	3	3	0	4
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(ii)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302
No. of Workers	4	6	3	0	4

(iii)

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

(iv)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302
No. of Workers	4	4	3	0	6

(v)

Wages (in rupees)	203 - 222	223 - 242	243 - 262	263 - 282	283 - 302
No. of Workers	4	3	6	0	4

The daily wages (in rupees) of 16 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 .

255 , 214 , 256 , 256 , 216 , 204 , 246 , 243 , 241 , 217

200 , 249 , 292 , 285 , 264 , 289

(i)

Wages (in rupees)	200 - 230	230 - 260	260 - 290	290 - 320
No. of Workers	5	7	3	1

(ii)

Wages (in rupees)	200 - 230	230 - 260	260 - 290	290 - 320
No. of Workers	5	3	7	1

(iii)

Wages (in rupees)	200 - 230	230 - 260	260 - 290	290 - 320
No. of Workers	1	7	3	5

(iv)

Wages (in rupees)	200 - 230	230 - 260	260 - 290	290 - 320
No. of Workers	5	4	3	1

(v)

Wages (in rupees)	200 - 230	230 - 260	260 - 290	290 - 320
No. of Workers	5	7	1	1

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

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

7.

366 , 314 , 255 , 358 , 220 , 356 , 284 , 238 , 287 , 226

336 , 299 , 299 , 261 , 379 , 276 , 389 , 377 , 250

(i)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	6	6	4	3

(ii)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	6	2	4	3

(iii)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419

No. of Fruits	6	4	6	3
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(iv)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	3	6	4	6

(v)

Weight (in gm)	220 - 269	270 - 319	320 - 369	370 - 419
No. of Fruits	6	6	1	3

The weights (in gm) of 16 fruits are as follows.

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

8.

298 , 216 , 223 , 311 , 309 , 394 , 288 , 249 , 377 , 233
207 , 261 , 228 , 384 , 206 , 221

(i)

Weight (in gm)	206 - 256	256 - 306	306 - 356	356 - 406
No. of Fruits	8	2	3	3

(ii)

Weight (in gm)	206 - 256	256 - 306	306 - 356	356 - 406
No. of Fruits	3	3	2	8

(iii)

Weight (in gm)	206 - 256	256 - 306	306 - 356	356 - 406
No. of Fruits	8	3	4	3

(iv)

Weight (in gm)	206 - 256	256 - 306	306 - 356	356 - 406
No. of Fruits	8	3	2	3

(v)

Weight (in gm)	206 - 256	256 - 306	306 - 356	356 - 406
No. of Fruits	8	5	2	3

Given the sample data, prepare the class interval table in

inclusive form with 1 as min value and a class size of 6 .

9.

3 , 33 , 48 , 49 , 1 , 37 , 3 , 4 , 23 , 32 , 41 , 22 , 7 , 27 , 35
15 , 40

(i)

Class-Interval	1 - 6	7 - 12	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	4	1	1	2	1	3	3	1	1

(ii)

Class-Interval	1 - 6	7 - 12	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	4	1	2	1	1	3	3	1	1

(iii)

Class-Interval	1 - 7	7 - 13	13 - 19	19 - 25	25 - 31	31 - 37	37 - 43	43 - 49	49 - 55
Frequency	4	1	1	2	1	3	3	1	1

(iv)

Class-Interval	1 - 6	7 - 12	13 - 18	19 - 24	25 - 30	31 - 36	37 - 42	43 - 48	49 - 54
Frequency	4	1	1	7	1	3	3	1	1

10. Given the sample data, prepare the class interval table in
exclusive form with 6 as min value and a class size of 8 .

24 , 6 , 16 , 34 , 12 , 43 , 7 , 11 , 9 , 20 , 35 , 9 , 18 , 45 , 18

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(i)

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

(ii)

Class-Interval	6 - 14	14 - 22	22 - 30	30 - 38	38 - 46
Frequency	6	9	2	2	2

(iii)

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

(iv)

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

(v)

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

Assignment Key

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