

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

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 .

48 , 68 , 49 , 48 , 68 , 80 , 79 , 48 , 75 , 45 , 73 , 44 , 50 , 65 , 72
67

(i)	Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
	No. of Students	5	2	0	0	2	2	1	2

(ii)	Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
	No. of Students	5	2	3	0	4	2	1	2

(iii)	Marks	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68	69 - 73	74 - 78	79 - 83
	No. of Students	5	2	0	0	4	2	1	2

The marks obtained by 19 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 6 .

71 , 72 , 45 , 72 , 48 , 59 , 53 , 60 , 68 , 78 , 54 , 75 , 48 , 62 , 54
78 , 59 , 56 , 66

(i)	Marks	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
	No. of Students	3	4	4	2	3	3

(ii)	Marks	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
	No. of Students	3	3	4	2	3	4

(iii)	Marks	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
	No. of Students	3	4	4	5	3	3

(iv)	Marks	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
	No. of Students	3	4	9	2	3	3

The marks obtained by 20 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 8 .

50 , 47 , 63 , 68 , 58 , 66 , 40 , 71 , 80 , 73 , 54 , 50 , 48 , 80 , 69
50 , 59 , 66 , 44 , 47

(i)

Marks	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of Students	4	5	3	1	1	2

(ii)

Marks	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of Students	4	5	3	5	1	2

(iii)

Marks	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of Students	4	3	5	5	1	2

(iv)

Marks	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of Students	4	2	3	5	1	5

(v)

Marks	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of Students	4	5	6	5	1	2

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

4. 23 , 18 , 19 , 13 , 22 , 14 , 12 , 17 , 21 , 24 , 25 , 11 , 22 , 24 , 23
17 , 23 , 21 , 18

(i)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	6	5	4	1

(ii)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	5	1	4	6

(iii)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	3	5	4	6

(iv)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	1	9	4	6

(v)

Age (in years)	11 - 14	14 - 17	17 - 20	20 - 23	23 - 26
No. of Students	3	1	5	4	6

The daily wages (in rupees) of 19 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 , 225 , 239 , 285 , 296 , 202 , 244 , 298 , 276 , 241
272 , 265 , 201 , 246 , 244 , 292 , 211 , 258 , 200

(i)

Wages (in rupees)	200 - 219	220 - 239	240 - 259	260 - 279	280 - 299
No. of Workers	4	6	2	3	4

(ii)

Wages (in rupees)	200 - 219	220 - 239	240 - 259	260 - 279	280 - 299
No. of Workers	4	7	6	3	4

(iii)

Wages (in rupees)	200 - 219	220 - 239	240 - 259	260 - 279	280 - 299
No. of Workers					

Wages (in rupees)	200 - 219	220 - 239	240 - 259	260 - 279	280 - 299
No. of Workers	4	2	1	3	4

(iv)

Wages (in rupees)	200 - 219	220 - 239	240 - 259	260 - 279	280 - 299
No. of Workers	4	2	6	3	4

(v)

Wages (in rupees)	200 - 219	220 - 239	240 - 259	260 - 279	280 - 299
No. of Workers	4	4	6	3	2

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 20 .

245 , 288 , 249 , 241 , 201 , 292 , 273 , 211 , 283 , 291

275 , 232 , 206 , 300 , 265 , 246

(i)

Wages (in rupees)	201 - 221	221 - 241	241 - 261	261 - 281	281 - 301
No. of Workers	3	5	4	3	1

(ii)

Wages (in rupees)	201 - 221	221 - 241	241 - 261	261 - 281	281 - 301
No. of Workers	3	6	4	3	5

(iii)

Wages (in rupees)	201 - 221	221 - 241	241 - 261	261 - 281	281 - 301
No. of Workers	3	1	6	3	5

(iv)

Wages (in rupees)	201 - 221	221 - 241	241 - 261	261 - 281	281 - 301
No. of Workers	3	1	4	3	5

(v)

Wages (in rupees)	201 - 221	221 - 241	241 - 261	261 - 281	281 - 301
No. of Workers	3	4	1	3	5

The weights (in gm) of 17 fruits are as follows.

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

7.

205 , 386 , 346 , 221 , 265 , 254 , 219 , 343 , 337 , 358

218 , 311 , 367 , 365 , 350 , 391 , 238

(i)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	5	2	6	5	4

(ii)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	5	1	2	5	4

(iii)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	5	2	1	5	4

(iv)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	5	4	1	5	2

(v)

--	--	--	--	--	--

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	5	6	1	5	4

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

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

8.

276 , 320 , 302 , 200 , 353 , 317 , 377 , 345 , 396 , 306

327 , 281 , 397 , 276 , 369 , 233 , 397 , 271 , 272 , 269

(i)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	2	5	9	4	5

(ii)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	2	4	5	4	5

(iii)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	2	10	4	4	5

(iv)

Weight (in gm)	200 - 240	240 - 280	280 - 320	320 - 360	360 - 400
No. of Fruits	2	5	4	4	5

Given the sample data, prepare the class interval table in

inclusive form with 2 as min value and a class size of 8 .

9.

26 , 8 , 8 , 38 , 24 , 2 , 12 , 21 , 4 , 41 , 20 , 22 , 39 , 15 , 39

45 , 45 , 8 , 15 , 25

(i)

Class-Interval	2 - 10	10 - 18	18 - 26	26 - 34	34 - 42	42 - 50
Frequency	5	3	5	1	4	2

(ii)

Class-Interval	2 - 9	10 - 17	18 - 25	26 - 33	34 - 41	42 - 49
Frequency	5	3	5	1	4	2

(iii)

Class-Interval	2 - 9	10 - 17	18 - 25	26 - 33	34 - 41	42 - 49
Frequency	5	5	3	1	4	2

(iv)

Class-Interval	2 - 9	10 - 17	18 - 25	26 - 33	34 - 41	42 - 49
Frequency	5	3	10	1	4	2

(v)

Class-Interval	2 - 9	10 - 17	18 - 25	26 - 33	34 - 41	42 - 49
Frequency	5	2	5	1	4	3

Given the sample data, prepare the class interval table in

exclusive form with 1 as min value and a class size of 5 .

10.

3 , 33 , 40 , 5 , 40 , 25 , 17 , 48 , 6 , 30 , 50 , 22 , 1 , 31 , 7

33 , 49 , 40 , 19

(i)

Class-Interval	1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50
----------------	-------	--------	---------	---------	---------	---------	---------	---------	---------	---------

Frequency	3	2	0	2	2	1	3	3	0	3
------------------	---	---	---	---	---	---	---	---	---	---

(ii)

Class-Interval	1 - 6	6 - 11	11 - 16	16 - 21	21 - 26	26 - 31	31 - 36	36 - 41	41 - 46	46 - 51
Frequency	3	0	2	2	2	1	3	3	0	3

(iii)

Class-Interval	1 - 6	6 - 11	11 - 16	16 - 21	21 - 26	26 - 31	31 - 36	36 - 41	41 - 46	46 - 51
Frequency	3	2	2	0	2	1	3	3	0	3

(iv)

Class-Interval	1 - 6	6 - 11	11 - 16	16 - 21	21 - 26	26 - 31	31 - 36	36 - 41	41 - 46	46 - 51
Frequency	3	2	0	7	2	1	3	3	0	3

(v)

Class-Interval	1 - 6	6 - 11	11 - 16	16 - 21	21 - 26	26 - 31	31 - 36	36 - 41	41 - 46	46 - 51
Frequency	3	2	0	2	2	1	3	3	0	3

Assignment Key

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