EduSahara™ Assignment

Name : Class Interval Table Construction

Chapter : Frequency Distribution

Grade : ICSE Grade IX

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The marks obtained by 15 students in an examination are given below.

1. Represent the data in the form of a frequency distribution table in inclusive form taking class size 5.

64 79 79 76 44 68 80 65 67 75 61 77 77 72 62

(i)

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

(ii)

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

(iii)

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

(iv)

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

(v)

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

The marks obtained by 18 students in an examination are given below.

2. Represent the data in the form of a frequency distribution table in exclusive form taking class size 6.

54 77 59 44 40 47 56 62 55 74 60 60 75 56 79 52 43 48

(i)

Marks	40 - 46	46 - 52	52 - 58	58 - 64	64 - 70	70 - 76	76 - 82
No. of Students	3	2	5	7	0	2	2

(ii)

Marks	40 - 46	46 - 52	52 - 58	58 - 64	64 - 70	70 - 76	76 - 82
No. of Students	3	2	5	4	0	2	2

(iii)

Marks	40 - 46	46 - 52	52 - 58	58 - 64	64 - 70	70 - 76	76 - 82
No. of Students	3	5	2	4	0	2	2

(iv)

Marks	40 - 46	46 - 52	52 - 58	58 - 64	64 - 70	70 - 76	76 - 82
No. of Students	3	2	8	4	0	2	2

The marks obtained by 16 students in an examination are given below.

3. Represent the data in the form of a frequency distribution table in exclusive form taking class size 8.

69 75 51 75 62 57 59 58 68 77 71 73 67 62 45 48

(i)

Marks	45 - 53	53 - 61	61 - 69	69 - 77	77 - 85
No. of Students	3	4	3	5	1

(ii)

Marks	45 - 53	53 - 61	61 - 69	69 - 77	77 - 85
No. of Students	3	1	4	5	3

(iii)

Marks	45 - 53	53 - 61	61 - 69	69 - 77	77 - 85
No. of Students	3	3	4	5	1

(iv)

Marks	45 - 53	53 - 61	61 - 69	69 - 77	77 - 85
No. of Students	3	3	1	5	1

(v)

Marks	45 - 53	53 - 61	61 - 69	69 - 77	77 - 85
No. of Students	3	7	4	5	1

4. Construct a frequency table in exclusive form for the following ages (in years) of 15 students, taking class size 2.

22 12 19 24 17 20 18 20 13 16 21 22 14 16 12

(i)

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

(ii)

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

(iii)

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

(iv)

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

The daily wages (in rupees) of 15 workers in a factory are given below.

5. Represent the data in the form of a frequency distribution in inclusive form taking class size 30.

211 215 282 264 235 278 293 200 216 254 210 281 298 259 221

(i)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	6	4	3	2

(ii)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	6	3	6	2

(iii)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	6	3	4	2

(iv)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	2	3	4	6

(v)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	6	8	4	2

6. The daily wages (in rupees) of 18 workers in a factory are given below.
Represent the data in the form of a frequency distribution in exclusive form taking class size 30.
290 245 279 226 248 226 254 227 247 236 216 219 299 290 220 214 245 217

(i)

Wages (in rupees)	214 - 244	244 - 274	274 - 304
No. of Workers	5	9	4

(ii)

Wages (in rupees)	214 - 244	244 - 274	274 - 304
No. of Workers	9	10	4

(iii)

Wages (in rupees)	214 - 244	244 - 274	274 - 304
No. of Workers	9	5	4

(iv)

Wages (in rupees)	214 - 244	244 - 274	274 - 304
No. of Workers	4	5	9

7. The weights (in gm) of 17 fruits are as follows. Form the grouped frequency table in inclusive form by taking class size 40.
400 225 380 315 350 250 269 302 266 363 371 363 263 211 205 237 275

(i)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	4	2	5	3	3

(ii)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	4	3	2	3	5

(iii)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	4	5	7	3	3

(iv)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	4	5	2	3	3

(v)

Weight (in gm)	205 - 244	245 - 284	285 - 324	325 - 364	365 - 404
No. of Fruits	4	9	2	3	3

8. The weights (in gm) of 15 fruits are as follows. Form the grouped frequency table in exclusive form by taking class size 40.
393 275 385 277 204 329 388 389 386 292 383 242 212 342 223

(i)

Weight (in gm)	204 - 244	244 - 284	284 - 324	324 - 364	364 - 404
No. of Fruits	4	6	1	2	2

(ii)

Weight (in gm)	204 - 244	244 - 284	284 - 324	324 - 364	364 - 404
No. of Fruits	4	5	1	2	6

(iii)

Weight (in gm)	204 - 244	244 - 284	284 - 324	324 - 364	364 - 404
No. of Fruits	4	2	5	2	6

(iv)

Weight (in gm)	204 - 244	244 - 284	284 - 324	324 - 364	364 - 404
No. of Fruits	4	1	2	2	6

(v)

Weight (in gm)	204 - 244	244 - 284	284 - 324	324 - 364	364 - 404
No. of Fruits	4	2	1	2	6

9. Given the sample data, prepare the class interval table in inclusive form with 1 as min value and a class size of 8 .
25 19 45 49 25 47 17 9 30 49 20 12 49 29 35 38 1 20 38 35

(i)

Class-Interval	1 - 9	9 - 17	17 - 25	25 - 33	33 - 41	41 - 49	49 - 57
Frequency	1	2	4	4	4	2	3

(ii)

Class-Interval	1 - 8	9 - 16	17 - 24	25 - 32	33 - 40	41 - 48	49 - 56
Frequency	1	2	4	4	4	2	3

(iii)

Class-Interval	1 - 8	9 - 16	17 - 24	25 - 32	33 - 40	41 - 48	49 - 56
Frequency	1	2	1	4	4	2	3

(iv)

Class-Interval	1 - 8	9 - 16	17 - 24	25 - 32	33 - 40	41 - 48	49 - 56
Frequency	1	4	2	4	4	2	3

(v)

Class-Interval	1 - 8	9 - 16	17 - 24	25 - 32	33 - 40	41 - 48	49 - 56
Frequency	1	3	4	4	4	2	2

10. Given the sample data, prepare the class interval table in exclusive form with 2 as min value and a class size of 5 .
22 50 31 49 20 8 46 10 28 39 42 2 43 42 28

(i)

Class-Interval	2 - 7	7 - 12	12 - 17	17 - 22	22 - 27	27 - 32	32 - 37	37 - 42	42 - 47	47 - 52
Frequency	1	0	2	1	1	3	0	1	4	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	1	2	0	1	1	3	0	1	4	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	1	2	0	5	1	3	0	1	4	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	1	2	1	0	1	3	0	1	4	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	1	2	0	1	1	3	0	1	4	2

Assignment Key

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

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