EduSahara™ Assignment

Name : Constructing Class Interval Tables

Chapter : Statistics

Grade : ICSE Grade VIII

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The marks obtained by 16 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 7.

48 59 42 45 50 63 66 76 55 42 65 61 58 78 51 78

(i)

Marks	42 - 48	49 - 55	56 - 62	63 - 69	70 - 76	77 - 83
No. of Students	4	3	3	6	1	2

(ii)

Marks	42 - 48	49 - 55	56 - 62	63 - 69	70 - 76	77 - 83
No. of Students	4	3	3	3	1	2

(iii)

Marks	42 - 48	49 - 55	56 - 62	63 - 69	70 - 76	77 - 83
No. of Students	4	3	6	3	1	2

(iv)

Marks	42 - 48	49 - 55	56 - 62	63 - 69	70 - 76	77 - 83
No. of Students	4	2	3	3	1	3

The marks obtained by 19 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.

57 67 70 54 76 40 80 73 48 44 66 76 49 41 43 45 73 48 72

(i)

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

(ii)

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

(iii)

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

(iv)

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

The marks obtained by 17 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.

54 73 61 74 61 56 44 69 51 50 74 62 54 70 53 79 55

(i)

Marks	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84
No. of Students	3	3	5	5	1

(ii)

Marks	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84
No. of Students	3	5	8	5	1

(iii)

Marks	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84
No. of Students	3	5	3	5	1

(iv)

Marks	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84
No. of Students	3	1	3	5	5

(v)

Marks	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84
No. of Students	3	2	3	5	1

4. Construct a frequency table in exclusive form for the following ages (in years) of 15 students, taking class size 2.
14 13 12 12 10 23 12 19 13 19 21 12 25 21 22

(i)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	1	1	1	0	2	2	2	6

(ii)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	1	6	1	0	2	2	2	1

(iii)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	1	6	0	1	2	2	2	1

(iv)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	1	6	1	0	6	2	2	1

(v)

Age (in years)	10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24	24 - 26
No. of Students	1	6	5	0	2	2	2	1

The daily wages (in rupees) of 20 workers in a factory are given below.

5. Represent the data in the form of a frequency distribution in inclusive form taking class size 20.
286 218 283 222 291 215 228 256 249 226 216 247 293 243 232 223 247 222 262 297

(i)

Wages (in rupees)	215 - 234	235 - 254	255 - 274	275 - 294	295 - 314
No. of Workers	9	1	2	4	4

(ii)

Wages (in rupees)	215 - 234	235 - 254	255 - 274	275 - 294	295 - 314
No. of Workers	9	2	4	4	1

(iii)

Wages (in rupees)	215 - 234	235 - 254	255 - 274	275 - 294	295 - 314
No. of Workers	9	4	5	4	1

(iv)

Wages (in rupees)	215 - 234	235 - 254	255 - 274	275 - 294	295 - 314
No. of Workers	9	4	2	4	1

(v)

Wages (in rupees)	215 - 234	235 - 254	255 - 274	275 - 294	295 - 314
No. of Workers	9	2	2	4	1

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

6. Represent the data in the form of a frequency distribution in exclusive form taking class size 30.
237 290 287 212 291 219 300 270 213 240 210 285 296 242 213

(i)

Wages (in rupees)	210 - 240	240 - 270	270 - 300	300 - 330
No. of Workers	6	2	6	1

(ii)

Wages (in rupees)	210 - 240	240 - 270	270 - 300	300 - 330
No. of Workers	6	2	11	1

(iii)

Wages (in rupees)	210 - 240	240 - 270	270 - 300	300 - 330
No. of Workers	6	6	2	1

(iv)

Wages (in rupees)	210 - 240	240 - 270	270 - 300	300 - 330
No. of Workers	1	2	6	6

(v)

Wages (in rupees)	210 - 240	240 - 270	270 - 300	300 - 330
No. of Workers	6	4	6	1

7. The weights (in gm) of 20 fruits are as follows. Form the grouped frequency table in inclusive form by taking class size 50.

314 281 312 249 365 252 288 267 286 286 264 274 233 322 251 289 212 305 264 221

(i)

Weight (in gm)	212 - 261	262 - 311	312 - 361	362 - 411
No. of Fruits	6	7	3	1

(ii)

Weight (in gm)	212 - 261	262 - 311	312 - 361	362 - 411
No. of Fruits	6	10	8	1

(iii)

Weight (in gm)	212 - 261	262 - 311	312 - 361	362 - 411
No. of Fruits	6	10	3	1

(iv)

Weight (in gm)	212 - 261	262 - 311	312 - 361	362 - 411
No. of Fruits	6	3	10	1

(v)

Weight (in gm)	212 - 261	262 - 311	312 - 361	362 - 411
No. of Fruits	1	10	3	6

8. The weights (in gm) of 16 fruits are as follows. Form the grouped frequency table in exclusive form by taking class size 50. 344 270 329 392 395 321 367 229 294 337 318 364 399 300 210 284

(i)

Weight (in gm)	210 - 260	260 - 310	310 - 360	360 - 410
No. of Fruits	2	4	5	5

(ii)

Weight (in gm)	210 - 260	260 - 310	310 - 360	360 - 410
No. of Fruits	2	5	4	5

(iii)

Weight (in gm)	210 - 260	260 - 310	310 - 360	360 - 410
No. of Fruits	5	4	5	2

(iv)

Weight (in gm)	210 - 260	260 - 310	310 - 360	360 - 410
No. of Fruits	2	4	8	5

(v)

Weight (in gm)	210 - 260	260 - 310	310 - 360	360 - 410
No. of Fruits	2	1	5	5

9. Given the sample data, prepare the class interval table in inclusive form with 4 as min value and a class size of 8.

16 33 21 25 5 8 43 45 35 39 49 10 26 15 39 38 24 26 4

(i)

Class-Interval	4 - 11	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51
Frequency	4	2	1	2	4	2

(ii)

Class-Interval	4 - 11	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51
Frequency	4	2	5	2	4	2

(iii)

Class-Interval	4 - 11	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51
Frequency	4	5	2	2	4	2

(iv)

Class-Interval	4 - 12	12 - 20	20 - 28	28 - 36	36 - 44	44 - 52
Frequency	4	2	5	2	4	2

10. Given the sample data, prepare the class interval table in exclusive form with 6 as min value and a class size of 9 .
32 9 45 36 18 27 27 22 25 13 48 28 18 41 6 40 49 43 30 24

(i)

Class-Interval	6 - 15	15 - 24	24 - 33	33 - 42	42 - 51
Frequency	3	3	7	3	4

(ii)

Class-Interval	6 - 15	15 - 24	24 - 33	33 - 42	42 - 51
Frequency	3	7	7	3	4

(iii)

Class-Interval	6 - 15	15 - 24	24 - 33	33 - 42	42 - 51
Frequency	3	7	3	3	4

(iv)

Class-Interval	6 - 14	15 - 23	24 - 32	33 - 41	42 - 50
Frequency	3	3	7	3	4

(v)

Class-Interval	6 - 15	15 - 24	24 - 33	33 - 42	42 - 51
Frequency	3	4	7	3	3

Assignment Key

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

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