EduSahara™ Assignment

Name : Constructing Class Interval Tables

Chapter : Frequency Distribution Tables and Graphs

Grade : SSC Grade VIII

The marks obtained by 17 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.

61 42 74 55 78 77 45 54 46 40 73 44 57 46 76 68 70

(i)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	3	1	2	1	1	3	3

(ii)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	3	1	2	6	1	3	3

(iii)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	3	2	1	1	1	3	3

(iv)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	3	5	2	1	1	3	3

The marks obtained by 20 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 8.

42 79 66 45 46 79 46 74 64 50 69 43 59 49 49 48 41 76 77 54

(i)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	7	6	2	2	5

(ii)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	7	4	2	2	5

(iii)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	7	2	4	2	5

(iv)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	7	5	2	2	4

(v)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	7	4	4	2	5

The marks obtained by 15 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.

41 79 71 45 42 58 74 69 58 63 62 80 62 77 58

(i)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	3	6	0	2	4

(ii)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	3	0	4	2	4

(iii)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	3	2	6	2	4

(iv)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	3	4	6	2	0

(v)

Marks	41 - 49	49 - 57	57 - 65	65 - 73	73 - 81
No. of Students	3	0	6	2	4

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

13 19 14 15 14 16 21 13 24 18 18 18 14 18 17

(i)

Age (in years)	13 - 15	15 - 17	17 - 19	19 - 21	21 - 23	23 - 25
No. of Students	5	2	5	6	1	1

(ii)

Age (in years)	13 - 15	15 - 17	17 - 19	19 - 21	21 - 23	23 - 25
No. of Students	5	1	5	1	1	2

(iii)

Age (in years)	13 - 15	15 - 17	17 - 19	19 - 21	21 - 23	23 - 25
No. of Students	5	5	2	1	1	1

(iv)

Age (in years)	13 - 15	15 - 17	17 - 19	19 - 21	21 - 23	23 - 25
No. of Students	5	2	5	1	1	1

(v)

Age (in years)	13 - 15	15 - 17	17 - 19	19 - 21	21 - 23	23 - 25
No. of Students	5	2	7	1	1	1

The daily wages (in rupees) of 16 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.

253 290 297 228 259 296 290 259 242 287 284 240 284 233 259 253

(i)

Wages (in rupees)	228 - 247	248 - 267	268 - 287	288 - 307
No. of Workers	4	10	3	4

(ii)

Wages (in rupees)	228 - 247	248 - 267	268 - 287	288 - 307
No. of Workers	4	3	5	4

(iii)

Wages (in rupees)	228 - 247	248 - 267	268 - 287	288 - 307
No. of Workers	4	5	3	4

(iv)

Wages (in rupees)	228 - 247	248 - 267	268 - 287	288 - 307
No. of Workers	4	5	7	4

6. 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 taking class size 30.
217 251 253 242 227 277 246 214 222 207 243 234 286 287 256 284

(i)

Wages (in rupees)	207 - 237	237 - 267	267 - 297
No. of Workers	6	6	4

(ii)

Wages (in rupees)	207 - 237	237 - 267	267 - 297
No. of Workers	6	1	4

(iii)

Wages (in rupees)	207 - 237	237 - 267	267 - 297
No. of Workers	4	6	6

(iv)

Wages (in rupees)	207 - 237	237 - 267	267 - 297
No. of Workers	6	2	4

7. The weights (in gm) of 17 fruits are as follows. Form the grouped frequency table in inclusive form by taking class size 50. 399 296 298 324 395 358 356 235 333 267 266 301 210 335 341 247 378

(i)

Weight (in gm)	210 - 259	260 - 309	310 - 359	360 - 409
No. of Fruits	3	6	5	3

(ii)

Weight (in gm)	210 - 259	260 - 309	310 - 359	360 - 409
No. of Fruits	3	5	6	3

(iii)

Weight (in gm)	210 - 259	260 - 309	310 - 359	360 - 409
No. of Fruits	3	8	6	3

(iv)

Weight (in gm)	210 - 259	260 - 309	310 - 359	360 - 409
No. of Fruits	3	5	8	3

8. The weights (in gm) of 15 fruits are as follows. Form the grouped frequency table in exclusive form by taking class size 50. 302 365 275 366 222 286 340 348 306 275 390 273 335 311 326

(i)

Weight (in gm)	222 - 272	272 - 322	322 - 372	372 - 422
No. of Fruits	1	5	6	1

(ii)

Weight (in gm)	222 - 272	272 - 322	322 - 372	372 - 422
No. of Fruits	1	7	10	1

(iii)

Weight (in gm)	222 - 272	272 - 322	322 - 372	372 - 422
No. of Fruits	1	7	6	1

(iv)

Weight (in gm)	222 - 272	272 - 322	322 - 372	372 - 422
No. of Fruits	1	6	7	1

9. Given the sample data, prepare the class interval table in inclusive form with 6 as min value and a class size of 10 .
9 21 11 26 6 29 34 28 20 44 38 31 31 25 9 27 21 48 27 18

(i)

Class-Interval	6 - 16	16 - 26	26 - 36	36 - 46	46 - 56
Frequency	4	5	8	2	1

(ii)

Class-Interval	6 - 15	16 - 25	26 - 35	36 - 45	46 - 55
Frequency	4	5	8	2	1

(iii)

Class-Interval	6 - 15	16 - 25	26 - 35	36 - 45	46 - 55
Frequency	4	8	5	2	1

(iv)

Class-Interval	6 - 15	16 - 25	26 - 35	36 - 45	46 - 55
Frequency	4	1	8	2	5

(v)

Class-Interval	6 - 15	16 - 25	26 - 35	36 - 45	46 - 55
Frequency	4	9	8	2	1

10. Given the sample data, prepare the class interval table in exclusive form with 4 as min value and a class size of 8 .
13 15 47 4 49 26 32 18 5 20 9 9 25 48 4

(i)

Class-Interval	4 - 11	12 - 19	20 - 27	28 - 35	36 - 43	44 - 51
Frequency	5	3	3	1	0	3

(ii)

Class-Interval	4 - 12	12 - 20	20 - 28	28 - 36	36 - 44	44 - 52
Frequency	5	3	3	1	0	3

(iii)

Class-Interval	4 - 12	12 - 20	20 - 28	28 - 36	36 - 44	44 - 52
Frequency	5	3	7	1	0	3

Assignment Key

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