



The marks obtained by 18 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 8.

55 78 54 75 52 66 74 45 60 40 50 42 79 71 48 63 63 54

(i)

|                        |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 40 - 47 | 48 - 55 | 56 - 63 | 64 - 71 | 72 - 79 |
| <b>No. of Students</b> | 3       | 3       | 6       | 2       | 4       |

(ii)

|                        |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 40 - 47 | 48 - 55 | 56 - 63 | 64 - 71 | 72 - 79 |
| <b>No. of Students</b> | 3       | 6       | 3       | 2       | 4       |

(iii)

|                        |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 40 - 47 | 48 - 55 | 56 - 63 | 64 - 71 | 72 - 79 |
| <b>No. of Students</b> | 3       | 11      | 3       | 2       | 4       |

(iv)

|                        |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 40 - 47 | 48 - 55 | 56 - 63 | 64 - 71 | 72 - 79 |
| <b>No. of Students</b> | 3       | 6       | 6       | 2       | 4       |

(v)

|                        |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 40 - 47 | 48 - 55 | 56 - 63 | 64 - 71 | 72 - 79 |
| <b>No. of Students</b> | 3       | 4       | 3       | 2       | 6       |

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.

69 52 79 42 44 61 49 74 53 69 70 53 44 61 63 80 68 61

(i)

|                        |         |         |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 42 - 48 | 48 - 54 | 54 - 60 | 60 - 66 | 66 - 72 | 72 - 78 | 78 - 84 |
| <b>No. of Students</b> | 3       | 4       | 2       | 4       | 4       | 1       | 2       |

(ii)

|                        |         |         |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 42 - 48 | 48 - 54 | 54 - 60 | 60 - 66 | 66 - 72 | 72 - 78 | 78 - 84 |
| <b>No. of Students</b> | 3       | 2       | 0       | 4       | 4       | 1       | 4       |

(iii)

|                        |         |         |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 42 - 48 | 48 - 54 | 54 - 60 | 60 - 66 | 66 - 72 | 72 - 78 | 78 - 84 |
| <b>No. of Students</b> | 3       | 0       | 4       | 4       | 4       | 1       | 2       |

(iv)

|                        |         |         |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 42 - 48 | 48 - 54 | 54 - 60 | 60 - 66 | 66 - 72 | 72 - 78 | 78 - 84 |
| <b>No. of Students</b> | 3       | 4       | 0       | 8       | 4       | 1       | 2       |

(v)

|                        |         |         |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 42 - 48 | 48 - 54 | 54 - 60 | 60 - 66 | 66 - 72 | 72 - 78 | 78 - 84 |
| <b>No. of Students</b> | 3       | 4       | 0       | 4       | 4       | 1       | 2       |

The marks obtained by 20 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 7.

40 58 44 54 51 60 60 72 80 44 44 79 68 77 43 72 53 69 65 77

(i)

| Marks           | 40 - 47 | 47 - 54 | 54 - 61 | 61 - 68 | 68 - 75 | 75 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of Students | 5       | 2       | 4       | 1       | 4       | 4       |

(ii)

| Marks           | 40 - 47 | 47 - 54 | 54 - 61 | 61 - 68 | 68 - 75 | 75 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of Students | 5       | 2       | 9       | 1       | 4       | 4       |

(iii)

| Marks           | 40 - 47 | 47 - 54 | 54 - 61 | 61 - 68 | 68 - 75 | 75 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of Students | 5       | 2       | 4       | 3       | 4       | 4       |

(iv)

| Marks           | 40 - 47 | 47 - 54 | 54 - 61 | 61 - 68 | 68 - 75 | 75 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of Students | 5       | 4       | 2       | 1       | 4       | 4       |

(v)

| Marks           | 40 - 47 | 47 - 54 | 54 - 61 | 61 - 68 | 68 - 75 | 75 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of Students | 5       | 4       | 4       | 1       | 4       | 2       |

4. Construct a frequency table in exclusive form for the following ages (in years) of 20 students, taking class size 2.

24 21 22 18 22 11 10 12 21 15 10 21 11 18 23 21 18 25 20 12

(i)

| Age (in years)  | 10 - 12 | 12 - 14 | 14 - 16 | 16 - 18 | 18 - 20 | 20 - 22 | 22 - 24 | 24 - 26 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Students | 4       | 2       | 0       | 1       | 3       | 5       | 3       | 2       |

(ii)

| Age (in years)  | 10 - 12 | 12 - 14 | 14 - 16 | 16 - 18 | 18 - 20 | 20 - 22 | 22 - 24 | 24 - 26 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Students | 4       | 2       | 1       | 0       | 3       | 5       | 3       | 2       |

(iii)

| Age (in years)  | 10 - 12 | 12 - 14 | 14 - 16 | 16 - 18 | 18 - 20 | 20 - 22 | 22 - 24 | 24 - 26 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Students | 4       | 2       | 4       | 0       | 3       | 5       | 3       | 2       |

(iv)

| Age (in years)  | 10 - 12 | 12 - 14 | 14 - 16 | 16 - 18 | 18 - 20 | 20 - 22 | 22 - 24 | 24 - 26 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of Students | 4       | 2       | 1       | 0       | 7       | 5       | 3       | 2       |

The daily wages (in rupees) of 18 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.

215 235 268 297 212 220 266 207 268 235 246 214 200 282 200 249 248 270

(i)

| Wages (in rupees) | 200 - 229 | 230 - 259 | 260 - 289 | 290 - 319 |
|-------------------|-----------|-----------|-----------|-----------|
| No. of Workers    | 7         | 5         | 2         | 1         |

(ii)

| Wages (in rupees) | 200 - 229 | 230 - 259 | 260 - 289 | 290 - 319 |
|-------------------|-----------|-----------|-----------|-----------|
| No. of Workers    | 1         | 5         | 5         | 7         |

(iii)

| Wages (in rupees) | 200 - 229 | 230 - 259 | 260 - 289 | 290 - 319 |
|-------------------|-----------|-----------|-----------|-----------|
| No. of Workers    | 7         | 5         | 5         | 1         |

(iv)

| Wages (in rupees) | 200 - 229 | 230 - 259 | 260 - 289 | 290 - 319 |
|-------------------|-----------|-----------|-----------|-----------|
| No. of Workers    | 7         | 10        | 5         | 1         |

The daily wages (in rupees) of 20 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.

277 231 227 213 242 228 286 292 200 286 294 206 256 250 244 276 243 263 295 236

(i)

|                          |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|
| <b>Wages (in rupees)</b> | 200 - 230 | 230 - 260 | 260 - 290 | 290 - 320 |
| <b>No. of Workers</b>    | 5         | 9         | 5         | 3         |

(ii)

|                          |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|
| <b>Wages (in rupees)</b> | 200 - 230 | 230 - 260 | 260 - 290 | 290 - 320 |
| <b>No. of Workers</b>    | 5         | 5         | 7         | 3         |

(iii)

|                          |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|
| <b>Wages (in rupees)</b> | 200 - 230 | 230 - 260 | 260 - 290 | 290 - 320 |
| <b>No. of Workers</b>    | 3         | 7         | 5         | 5         |

(iv)

|                          |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|
| <b>Wages (in rupees)</b> | 200 - 230 | 230 - 260 | 260 - 290 | 290 - 320 |
| <b>No. of Workers</b>    | 5         | 7         | 10        | 3         |

(v)

|                          |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|
| <b>Wages (in rupees)</b> | 200 - 230 | 230 - 260 | 260 - 290 | 290 - 320 |
| <b>No. of Workers</b>    | 5         | 7         | 5         | 3         |

7. The weights (in gm) of 16 fruits are as follows. Form the grouped frequency table in inclusive form

by taking class size 40. 382 320 256 266 301 270 312 283 353 221 367 340 268 284 393 376

(i)

|                       |           |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 221 - 260 | 261 - 300 | 301 - 340 | 341 - 380 | 381 - 420 |
| <b>No. of Fruits</b>  | 2         | 4         | 5         | 3         | 2         |

(ii)

|                       |           |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 221 - 260 | 261 - 300 | 301 - 340 | 341 - 380 | 381 - 420 |
| <b>No. of Fruits</b>  | 2         | 5         | 7         | 3         | 2         |

(iii)

|                       |           |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 221 - 260 | 261 - 300 | 301 - 340 | 341 - 380 | 381 - 420 |
| <b>No. of Fruits</b>  | 2         | 2         | 4         | 3         | 5         |

(iv)

|                       |           |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 221 - 260 | 261 - 300 | 301 - 340 | 341 - 380 | 381 - 420 |
| <b>No. of Fruits</b>  | 2         | 10        | 4         | 3         | 2         |

(v)

|                       |           |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 221 - 260 | 261 - 300 | 301 - 340 | 341 - 380 | 381 - 420 |
| <b>No. of Fruits</b>  | 2         | 5         | 4         | 3         | 2         |

8. The weights (in gm) of 15 fruits are as follows. Form the grouped frequency table in exclusive form

by taking class size 50. 347 315 278 249 290 395 287 259 272 250 269 350 294 301 324

(i)

|                       |           |           |           |
|-----------------------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 249 - 299 | 299 - 349 | 349 - 399 |
| <b>No. of Fruits</b>  | 9         | 4         | 2         |

(ii)

|                       |           |           |           |
|-----------------------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 249 - 299 | 299 - 349 | 349 - 399 |
| <b>No. of Fruits</b>  | 4         | 9         | 2         |

(iii)

|                       |           |           |           |
|-----------------------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 249 - 299 | 299 - 349 | 349 - 399 |
| <b>No. of Fruits</b>  | 9         | 9         | 2         |

(iv)

|                       |           |           |           |
|-----------------------|-----------|-----------|-----------|
| <b>Weight (in gm)</b> | 249 - 299 | 299 - 349 | 349 - 399 |
| <b>No. of Fruits</b>  | 2         | 4         | 9         |

9. Given the sample data, prepare the class interval table in inclusive form with 4 as min value and a class size of 9 .  
19 45 41 9 10 12 25 4 35 13 26 31 49 29 28

(i)

|                       |        |         |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 4 - 12 | 13 - 21 | 22 - 30 | 31 - 39 | 40 - 48 | 49 - 57 |
| <b>Frequency</b>      | 4      | 2       | 2       | 2       | 2       | 1       |

(ii)

|                       |        |         |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 4 - 13 | 13 - 22 | 22 - 31 | 31 - 40 | 40 - 49 | 49 - 58 |
| <b>Frequency</b>      | 4      | 2       | 4       | 2       | 2       | 1       |

(iii)

|                       |        |         |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 4 - 12 | 13 - 21 | 22 - 30 | 31 - 39 | 40 - 48 | 49 - 57 |
| <b>Frequency</b>      | 4      | 1       | 4       | 2       | 2       | 2       |

(iv)

|                       |        |         |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 4 - 12 | 13 - 21 | 22 - 30 | 31 - 39 | 40 - 48 | 49 - 57 |
| <b>Frequency</b>      | 4      | 2       | 4       | 2       | 2       | 1       |

(v)

|                       |        |         |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 4 - 12 | 13 - 21 | 22 - 30 | 31 - 39 | 40 - 48 | 49 - 57 |
| <b>Frequency</b>      | 4      | 4       | 2       | 2       | 2       | 1       |

10. Given the sample data, prepare the class interval table in exclusive form with 2 as min value and a class size of 10 . 21 2 5 8 33 26 28 17 4 49 50 5 30 16 2 40 23

(i)

|                       |        |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 2 - 12 | 12 - 22 | 22 - 32 | 32 - 42 | 42 - 52 |
| <b>Frequency</b>      | 6      | 7       | 4       | 2       | 2       |

(ii)

|                       |        |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 2 - 11 | 12 - 21 | 22 - 31 | 32 - 41 | 42 - 51 |
| <b>Frequency</b>      | 6      | 3       | 4       | 2       | 2       |

(iii)

|                       |        |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 2 - 12 | 12 - 22 | 22 - 32 | 32 - 42 | 42 - 52 |
| <b>Frequency</b>      | 6      | 3       | 4       | 2       | 2       |

(iv)

|                       |        |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 2 - 12 | 12 - 22 | 22 - 32 | 32 - 42 | 42 - 52 |
| <b>Frequency</b>      | 6      | 4       | 3       | 2       | 2       |

(v)

|                       |        |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 2 - 12 | 12 - 22 | 22 - 32 | 32 - 42 | 42 - 52 |
| <b>Frequency</b>      | 6      | 2       | 4       | 2       | 3       |

## Assignment Key

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1) (ii)

2) (v)

3) (i)

4) (ii)

5) (iii)

6) (v)

7) (v)

8) (i)

9) (iv)

10) (iii)