

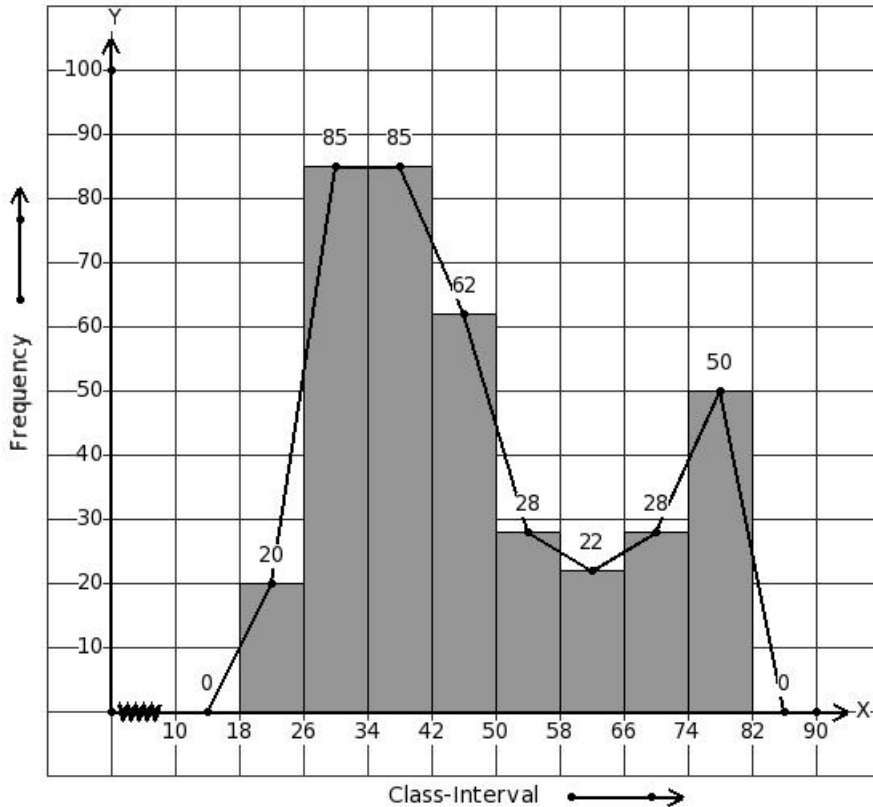
## EduSahara™ Learning Center Assignment

**Grade : Class X, ICSE**

**Chapter : Graphical Representation of Statistical Data**

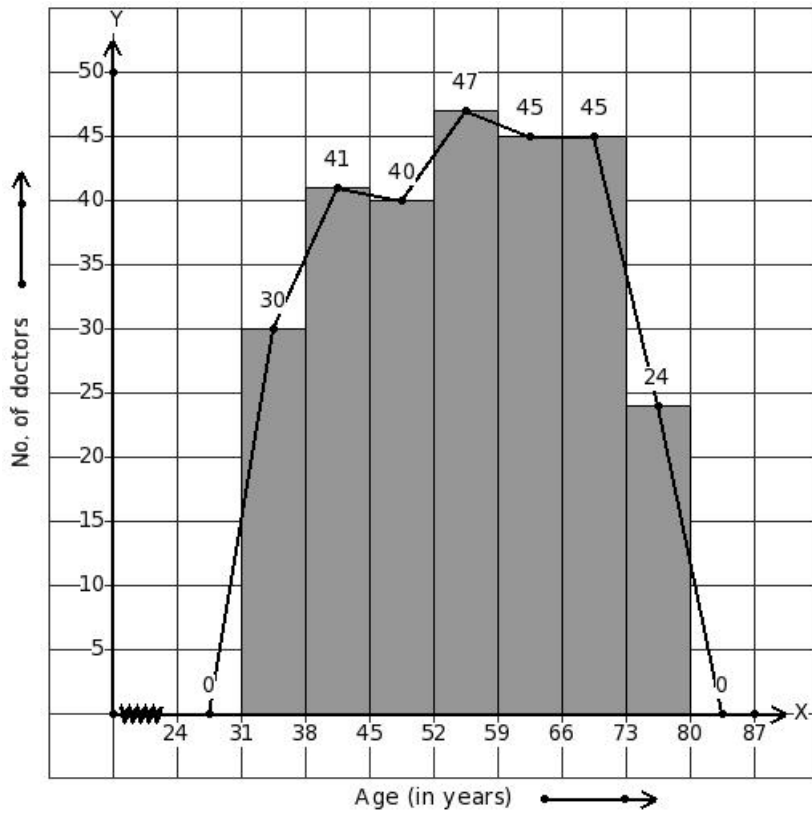
**Name : Histogram and Frequency Polygon on the same Graph**

1. Identify the class interval table for the given histogram and frequency polygon on the same graph.



- (i)
- | Class-Interval | 18 - 26 | 26 - 34 | 34 - 42 | 42 - 50 | 50 - 58 | 58 - 66 | 66 - 74 | 74 - 82 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency      | 20      | 85      | 81      | 62      | 28      | 22      | 28      | 50      |
- (ii)
- | Class-Interval | 18 - 26 | 26 - 34 | 34 - 42 | 42 - 50 | 50 - 58 | 58 - 66 | 66 - 74 | 74 - 82 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency      | 20      | 85      | 85      | 62      | 25      | 22      | 28      | 50      |
- (iii)
- | Class-Interval | 18 - 26 | 26 - 34 | 34 - 42 | 42 - 50 | 50 - 58 | 58 - 66 | 66 - 74 | 74 - 82 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency      | 20      | 85      | 62      | 85      | 28      | 22      | 28      | 50      |
- (iv)
- | Class-Interval | 18 - 26 | 26 - 34 | 34 - 42 | 42 - 50 | 50 - 58 | 58 - 66 | 66 - 74 | 74 - 82 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency      | 20      | 50      | 85      | 62      | 28      | 22      | 28      | 85      |
- (v)
- | Class-Interval | 18 - 26 | 26 - 34 | 34 - 42 | 42 - 50 | 50 - 58 | 58 - 66 | 66 - 74 | 74 - 82 |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Frequency      | 20      | 85      | 85      | 62      | 28      | 22      | 28      | 50      |

2. Given the number of doctors working in government hospitals in a city in various age groups. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Age (in years) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of doctors | 30      | 24      | 40      | 47      | 45      | 45      | 41      |

(ii)

| Age (in years) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of doctors | 30      | 40      | 41      | 47      | 45      | 45      | 24      |

(iii)

| Age (in years) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of doctors | 30      | 41      | 37      | 47      | 45      | 45      | 24      |

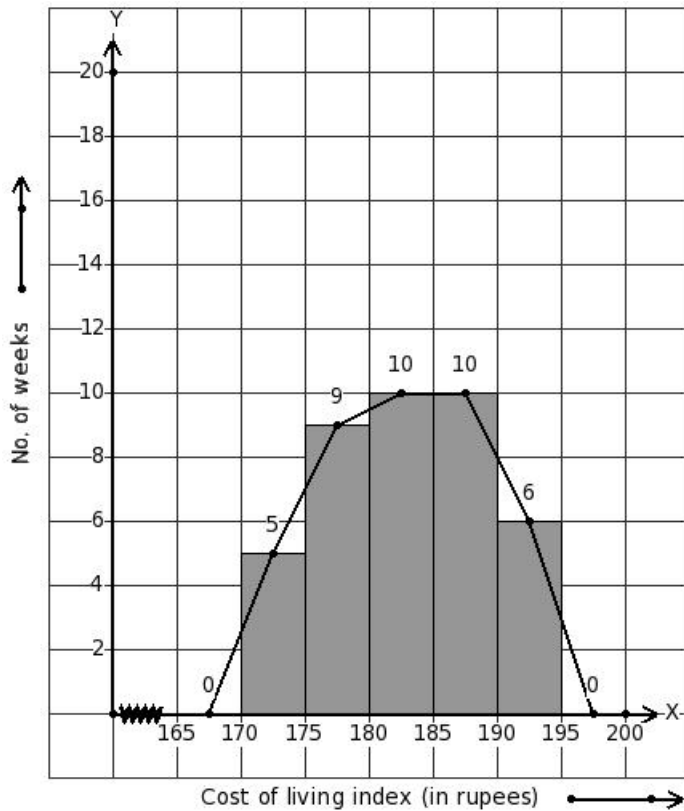
(iv)

| Age (in years) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of doctors | 30      | 41      | 40      | 52      | 45      | 45      | 24      |

(v)

| Age (in years) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of doctors | 30      | 41      | 40      | 47      | 45      | 45      | 24      |

3. Given below is the cost of living index for a particular year in a city. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Cost of living index (in rupees) | 170 - 175 | 175 - 180 | 180 - 185 | 185 - 190 | 190 - 195 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| No. of weeks                     | 5         | 6         | 10        | 10        | 6         |

(ii)

| Cost of living index (in rupees) | 170 - 175 | 175 - 180 | 180 - 185 | 185 - 190 | 190 - 195 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| No. of weeks                     | 5         | 10        | 9         | 10        | 6         |

(iii)

| Cost of living index (in rupees) | 170 - 175 | 175 - 180 | 180 - 185 | 185 - 190 | 190 - 195 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| No. of weeks                     | 5         | 9         | 10        | 10        | 6         |

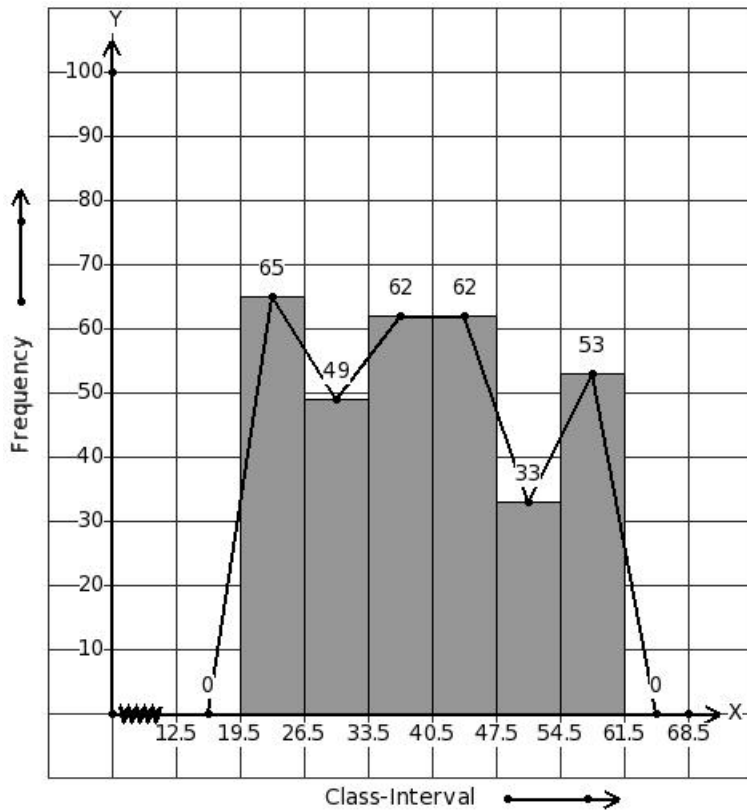
(iv)

| Cost of living index (in rupees) | 170 - 175 | 175 - 180 | 180 - 185 | 185 - 190 | 190 - 195 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| No. of weeks                     | 5         | 9         | 7         | 10        | 6         |

(v)

| Cost of living index (in rupees) | 170 - 175 | 175 - 180 | 180 - 185 | 185 - 190 | 190 - 195 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| No. of weeks                     | 5         | 6         | 10        | 10        | 9         |

4. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Class-Interval | 20 - 26 | 27 - 33 | 34 - 40 | 41 - 47 | 48 - 54 | 55 - 61 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency      | 65      | 62      | 49      | 62      | 33      | 53      |

(ii)

| Class-Interval | 20 - 26 | 27 - 33 | 34 - 40 | 41 - 47 | 48 - 54 | 55 - 61 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency      | 65      | 49      | 62      | 66      | 33      | 53      |

(iii)

| Class-Interval | 20 - 26 | 27 - 33 | 34 - 40 | 41 - 47 | 48 - 54 | 55 - 61 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency      | 65      | 49      | 62      | 62      | 33      | 53      |

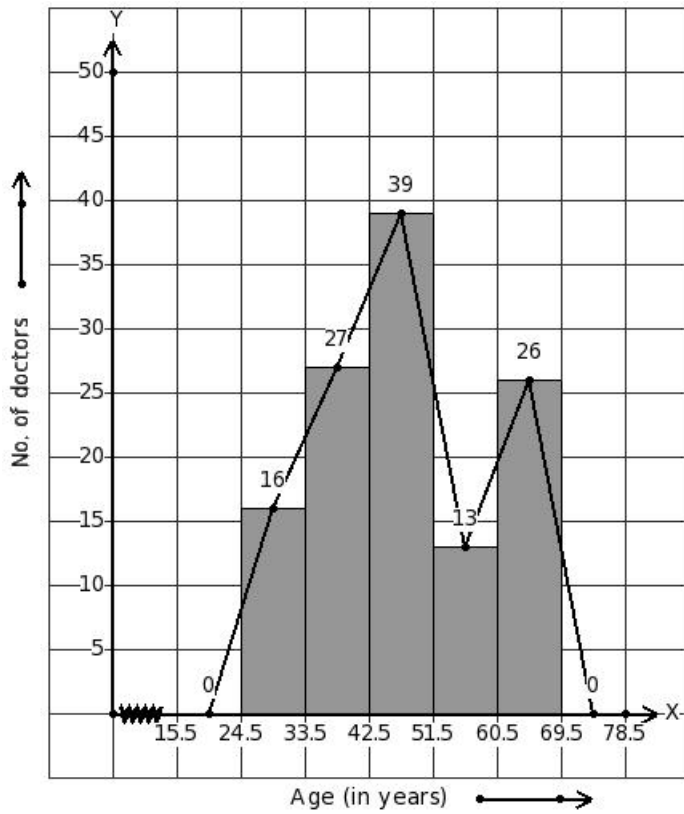
(iv)

| Class-Interval | 20 - 26 | 27 - 33 | 34 - 40 | 41 - 47 | 48 - 54 | 55 - 61 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency      | 65      | 53      | 62      | 62      | 33      | 49      |

(v)

| Class-Interval | 20 - 26 | 27 - 33 | 34 - 40 | 41 - 47 | 48 - 54 | 55 - 61 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency      | 65      | 49      | 59      | 62      | 33      | 53      |

5. Given the number of doctors working in government hospitals in a city in various age groups. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Age (in years) | 25 - 33 | 34 - 42 | 43 - 51 | 52 - 60 | 61 - 69 |
|----------------|---------|---------|---------|---------|---------|
| No. of doctors | 16      | 24      | 39      | 13      | 26      |

(ii)

| Age (in years) | 25 - 33 | 34 - 42 | 43 - 51 | 52 - 60 | 61 - 69 |
|----------------|---------|---------|---------|---------|---------|
| No. of doctors | 16      | 27      | 39      | 13      | 26      |

(iii)

| Age (in years) | 25 - 33 | 34 - 42 | 43 - 51 | 52 - 60 | 61 - 69 |
|----------------|---------|---------|---------|---------|---------|
| No. of doctors | 16      | 39      | 27      | 13      | 26      |

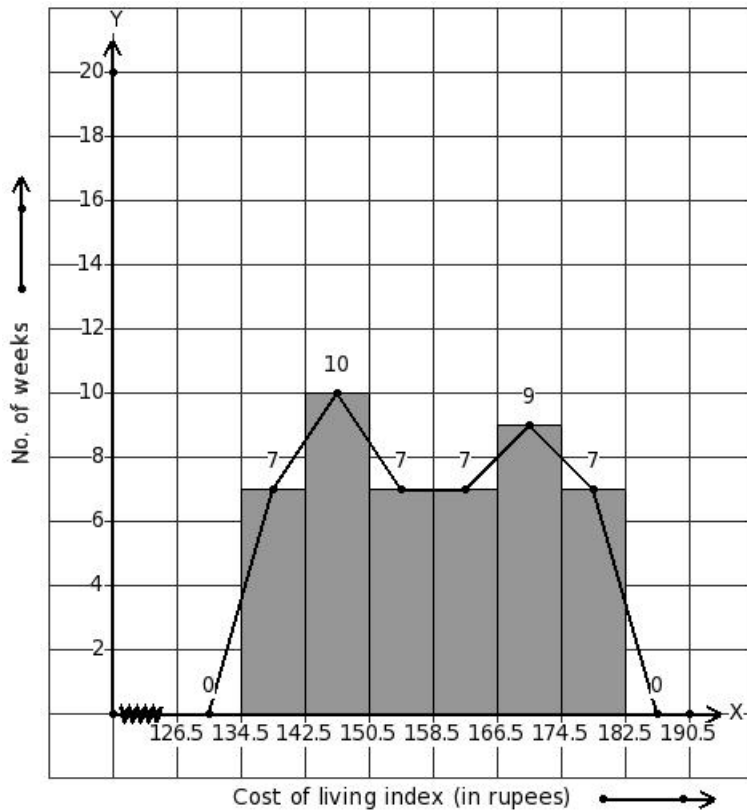
(iv)

| Age (in years) | 25 - 33 | 34 - 42 | 43 - 51 | 52 - 60 | 61 - 69 |
|----------------|---------|---------|---------|---------|---------|
| No. of doctors | 16      | 27      | 43      | 13      | 26      |

(v)

| Age (in years) | 25 - 33 | 34 - 42 | 43 - 51 | 52 - 60 | 61 - 69 |
|----------------|---------|---------|---------|---------|---------|
| No. of doctors | 16      | 26      | 39      | 13      | 27      |

6. Given below is the cost of living index for a particular year in a city. Identify the class interval table for the given histogram and frequency polygon on the same graph.



|     |                                  |           |           |           |           |           |           |
|-----|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (i) | Cost of living index (in rupees) | 135 - 142 | 143 - 150 | 151 - 158 | 159 - 166 | 167 - 174 | 175 - 182 |
|     | No. of weeks                     | 7         | 10        | 4         | 7         | 9         | 7         |

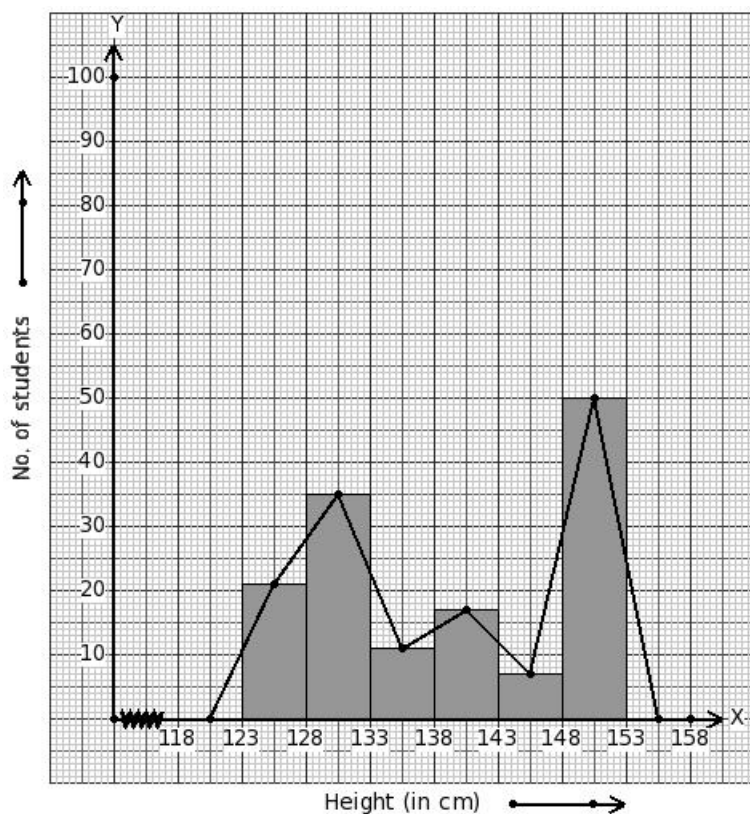
|      |                                  |           |           |           |           |           |           |
|------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (ii) | Cost of living index (in rupees) | 135 - 142 | 143 - 150 | 151 - 158 | 159 - 166 | 167 - 174 | 175 - 182 |
|      | No. of weeks                     | 7         | 7         | 7         | 7         | 9         | 10        |

|       |                                  |           |           |           |           |           |           |
|-------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (iii) | Cost of living index (in rupees) | 135 - 142 | 143 - 150 | 151 - 158 | 159 - 166 | 167 - 174 | 175 - 182 |
|       | No. of weeks                     | 7         | 10        | 7         | 7         | 9         | 7         |

|      |                                  |           |           |           |           |           |           |
|------|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (iv) | Cost of living index (in rupees) | 135 - 142 | 143 - 150 | 151 - 158 | 159 - 166 | 167 - 174 | 175 - 182 |
|      | No. of weeks                     | 7         | 7         | 10        | 7         | 9         | 7         |

|     |                                  |           |           |           |           |           |           |
|-----|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| (v) | Cost of living index (in rupees) | 135 - 142 | 143 - 150 | 151 - 158 | 159 - 166 | 167 - 174 | 175 - 182 |
|     | No. of weeks                     | 7         | 10        | 7         | 2         | 9         | 7         |

7. Heights of 141 students (in cm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Height (in cm)  | 123 - 128 | 128 - 133 | 133 - 138 | 138 - 143 | 143 - 148 | 148 - 153 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 21        | 35        | 8         | 17        | 7         | 50        |

(ii)

| Height (in cm)  | 123 - 128 | 128 - 133 | 133 - 138 | 138 - 143 | 143 - 148 | 148 - 153 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 21        | 35        | 11        | 14        | 7         | 50        |

(iii)

| Height (in cm)  | 123 - 128 | 128 - 133 | 133 - 138 | 138 - 143 | 143 - 148 | 148 - 153 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 21        | 35        | 11        | 17        | 7         | 50        |

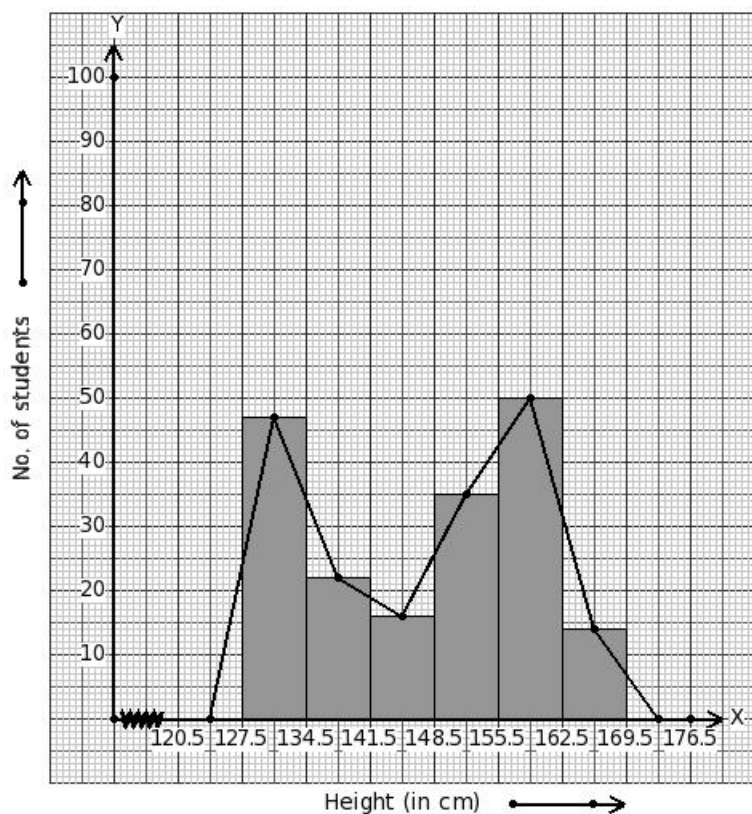
(iv)

| Height (in cm)  | 123 - 128 | 128 - 133 | 133 - 138 | 138 - 143 | 143 - 148 | 148 - 153 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 21        | 11        | 35        | 17        | 7         | 50        |

(v)

| Height (in cm)  | 123 - 128 | 128 - 133 | 133 - 138 | 138 - 143 | 143 - 148 | 148 - 153 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 21        | 50        | 11        | 17        | 7         | 35        |

8. Heights of 184 students (in cm) are Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Height (in cm)  | 128 - 134 | 135 - 141 | 142 - 148 | 149 - 155 | 156 - 162 | 163 - 169 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 47        | 16        | 22        | 35        | 50        | 14        |

(ii)

| Height (in cm)  | 128 - 134 | 135 - 141 | 142 - 148 | 149 - 155 | 156 - 162 | 163 - 169 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 47        | 14        | 16        | 35        | 50        | 22        |

(iii)

| Height (in cm)  | 128 - 134 | 135 - 141 | 142 - 148 | 149 - 155 | 156 - 162 | 163 - 169 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 47        | 22        | 14        | 35        | 50        | 14        |

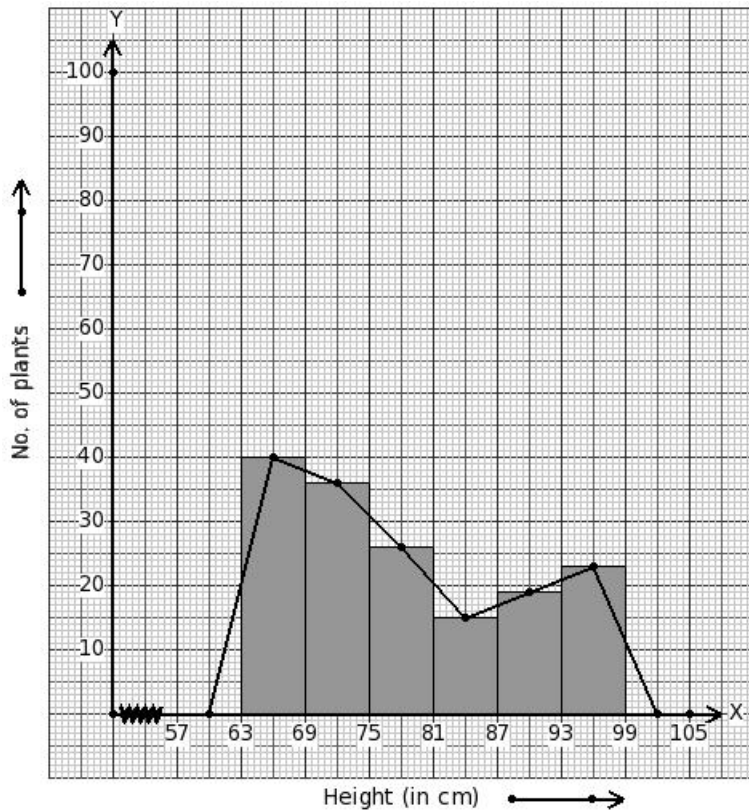
(iv)

| Height (in cm)  | 128 - 134 | 135 - 141 | 142 - 148 | 149 - 155 | 156 - 162 | 163 - 169 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 47        | 22        | 16        | 35        | 50        | 14        |

(v)

| Height (in cm)  | 128 - 134 | 135 - 141 | 142 - 148 | 149 - 155 | 156 - 162 | 163 - 169 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 47        | 22        | 16        | 38        | 50        | 14        |

9. Heights of 159 plants (in cm) are Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Height (in cm) | 63 - 69 | 69 - 75 | 75 - 81 | 81 - 87 | 87 - 93 | 93 - 99 |
|----------------|---------|---------|---------|---------|---------|---------|
| No. of plants  | 40      | 23      | 26      | 15      | 19      | 36      |

(ii)

| Height (in cm) | 63 - 69 | 69 - 75 | 75 - 81 | 81 - 87 | 87 - 93 | 93 - 99 |
|----------------|---------|---------|---------|---------|---------|---------|
| No. of plants  | 40      | 36      | 26      | 15      | 19      | 23      |

(iii)

| Height (in cm) | 63 - 69 | 69 - 75 | 75 - 81 | 81 - 87 | 87 - 93 | 93 - 99 |
|----------------|---------|---------|---------|---------|---------|---------|
| No. of plants  | 40      | 36      | 29      | 15      | 19      | 23      |

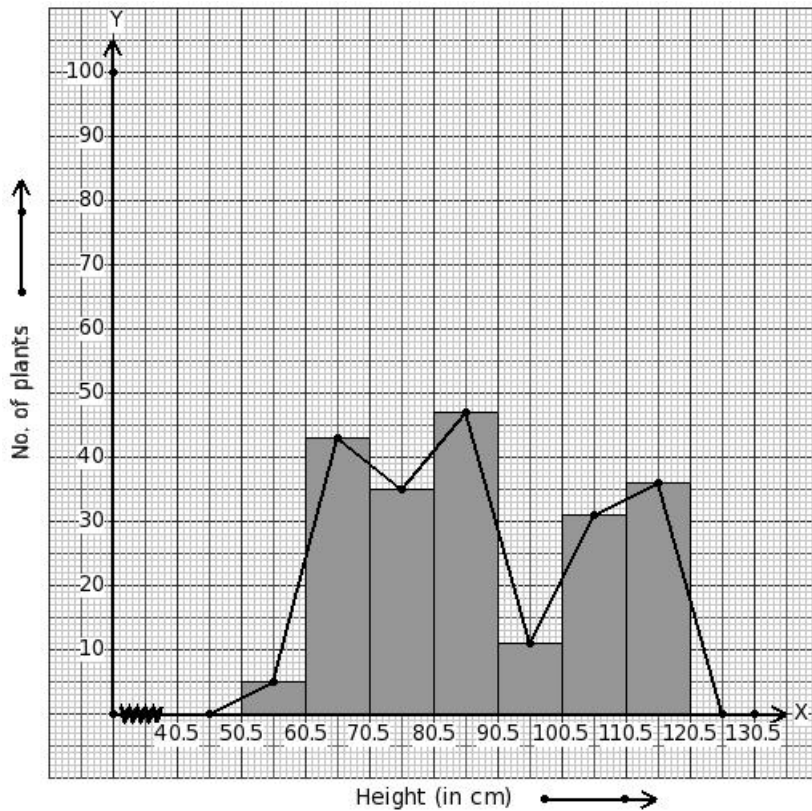
(iv)

| Height (in cm) | 63 - 69 | 69 - 75 | 75 - 81 | 81 - 87 | 87 - 93 | 93 - 99 |
|----------------|---------|---------|---------|---------|---------|---------|
| No. of plants  | 40      | 26      | 36      | 15      | 19      | 23      |

(v)

| Height (in cm) | 63 - 69 | 69 - 75 | 75 - 81 | 81 - 87 | 87 - 93 | 93 - 99 |
|----------------|---------|---------|---------|---------|---------|---------|
| No. of plants  | 40      | 36      | 26      | 10      | 19      | 23      |

10. Heights of 208 plants (in cm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Height (in cm) | 51 - 60 | 61 - 70 | 71 - 80 | 81 - 90 | 91 - 100 | 101 - 110 | 111 - 120 |
|----------------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of plants  | 5       | 35      | 43      | 47      | 11       | 31        | 36        |

(ii)

| Height (in cm) | 51 - 60 | 61 - 70 | 71 - 80 | 81 - 90 | 91 - 100 | 101 - 110 | 111 - 120 |
|----------------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of plants  | 5       | 36      | 35      | 47      | 11       | 31        | 43        |

(iii)

| Height (in cm) | 51 - 60 | 61 - 70 | 71 - 80 | 81 - 90 | 91 - 100 | 101 - 110 | 111 - 120 |
|----------------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of plants  | 5       | 43      | 35      | 47      | 11       | 31        | 36        |

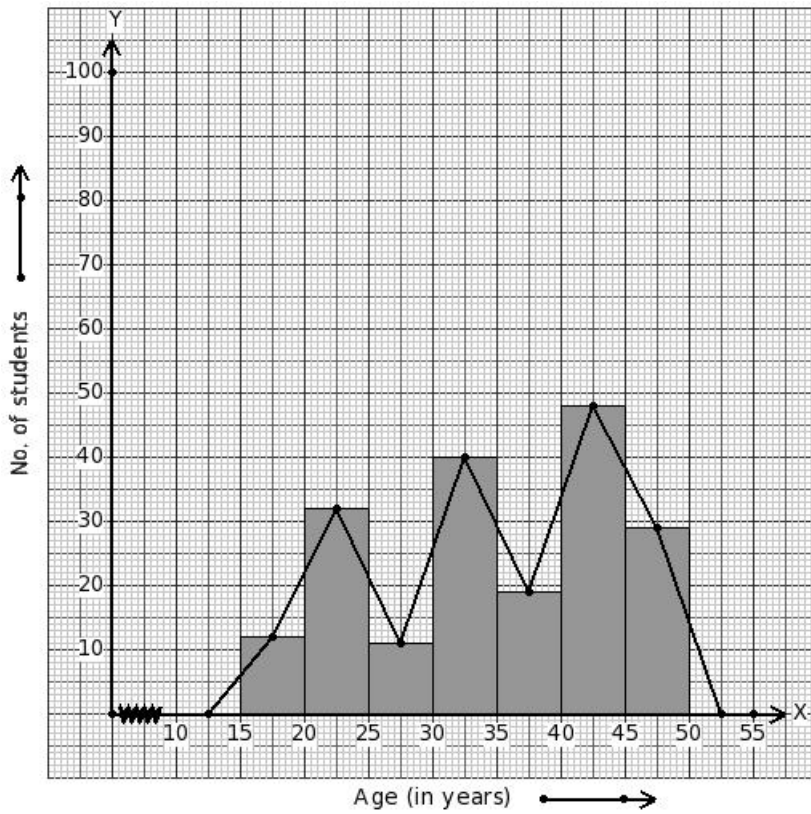
(iv)

| Height (in cm) | 51 - 60 | 61 - 70 | 71 - 80 | 81 - 90 | 91 - 100 | 101 - 110 | 111 - 120 |
|----------------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of plants  | 5       | 43      | 35      | 50      | 11       | 31        | 36        |

(v)

| Height (in cm) | 51 - 60 | 61 - 70 | 71 - 80 | 81 - 90 | 91 - 100 | 101 - 110 | 111 - 120 |
|----------------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of plants  | 5       | 43      | 32      | 47      | 11       | 31        | 36        |

11. Ages of 191 students (in years) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Age (in years)  | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 45 | 45 - 50 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 12      | 32      | 11      | 45      | 19      | 48      | 29      |

(ii)

| Age (in years)  | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 45 | 45 - 50 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 12      | 11      | 32      | 40      | 19      | 48      | 29      |

(iii)

| Age (in years)  | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 45 | 45 - 50 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 12      | 32      | 11      | 40      | 19      | 48      | 29      |

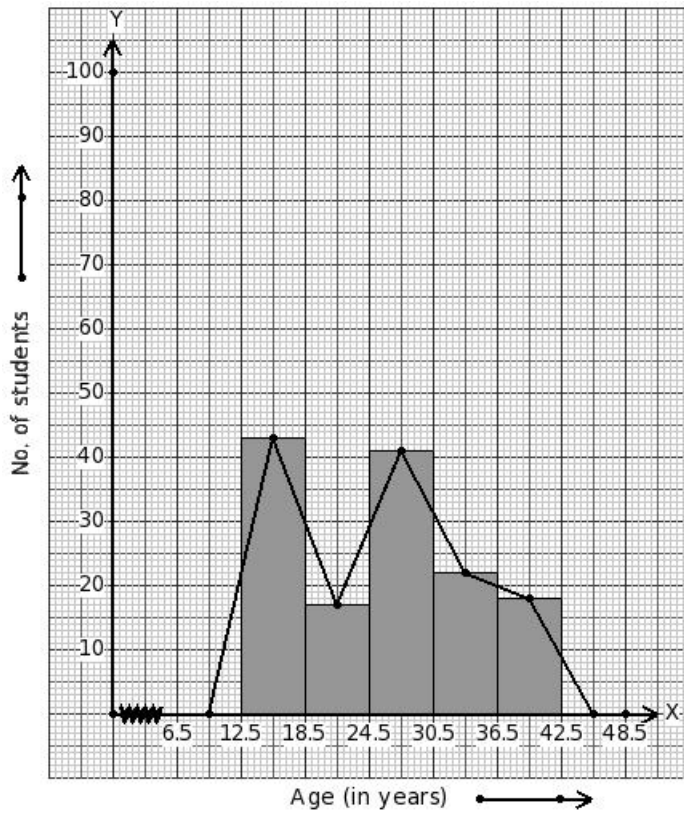
(iv)

| Age (in years)  | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 45 | 45 - 50 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 12      | 32      | 7       | 40      | 19      | 48      | 29      |

(v)

| Age (in years)  | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 45 | 45 - 50 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 12      | 29      | 11      | 40      | 19      | 48      | 32      |

12. Ages of 141 students (in years) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Age (in years)  | 13 - 18 | 19 - 24 | 25 - 30 | 31 - 36 | 37 - 42 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 43      | 17      | 41      | 22      | 18      |

(ii)

| Age (in years)  | 13 - 18 | 19 - 24 | 25 - 30 | 31 - 36 | 37 - 42 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 43      | 17      | 39      | 22      | 18      |

(iii)

| Age (in years)  | 13 - 18 | 19 - 24 | 25 - 30 | 31 - 36 | 37 - 42 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 43      | 18      | 41      | 22      | 17      |

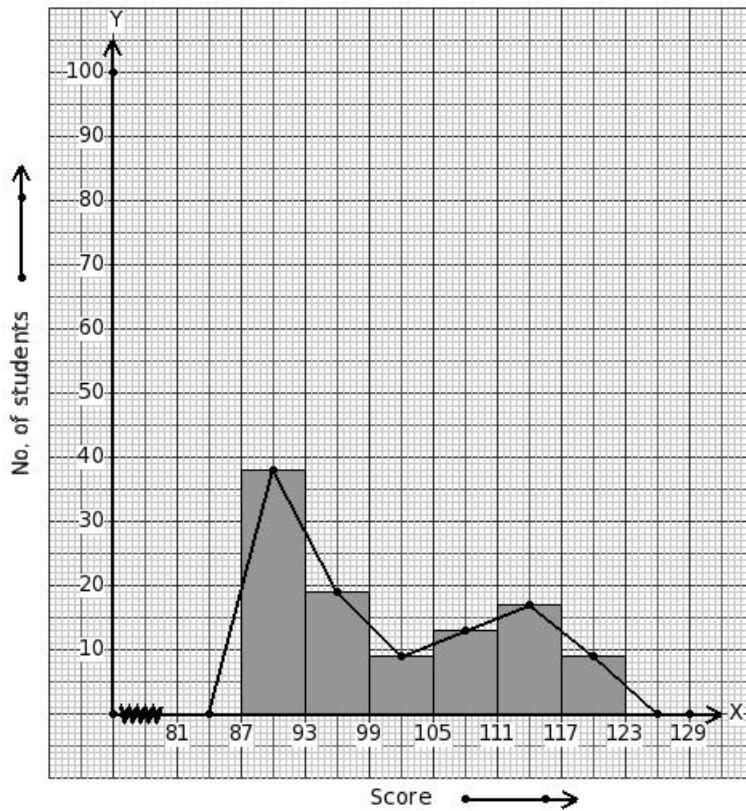
(iv)

| Age (in years)  | 13 - 18 | 19 - 24 | 25 - 30 | 31 - 36 | 37 - 42 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 43      | 41      | 17      | 22      | 18      |

(v)

| Age (in years)  | 13 - 18 | 19 - 24 | 25 - 30 | 31 - 36 | 37 - 42 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 43      | 12      | 41      | 22      | 18      |

13. Scores of 105 students are given Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Score           | 87 - 93 | 93 - 99 | 99 - 105 | 105 - 111 | 111 - 117 | 117 - 123 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|
| No. of students | 38      | 9       | 9        | 13        | 17        | 19        |

(ii)

| Score           | 87 - 93 | 93 - 99 | 99 - 105 | 105 - 111 | 111 - 117 | 117 - 123 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|
| No. of students | 38      | 19      | 6        | 13        | 17        | 9         |

(iii)

| Score           | 87 - 93 | 93 - 99 | 99 - 105 | 105 - 111 | 111 - 117 | 117 - 123 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|
| No. of students | 38      | 19      | 9        | 13        | 17        | 9         |

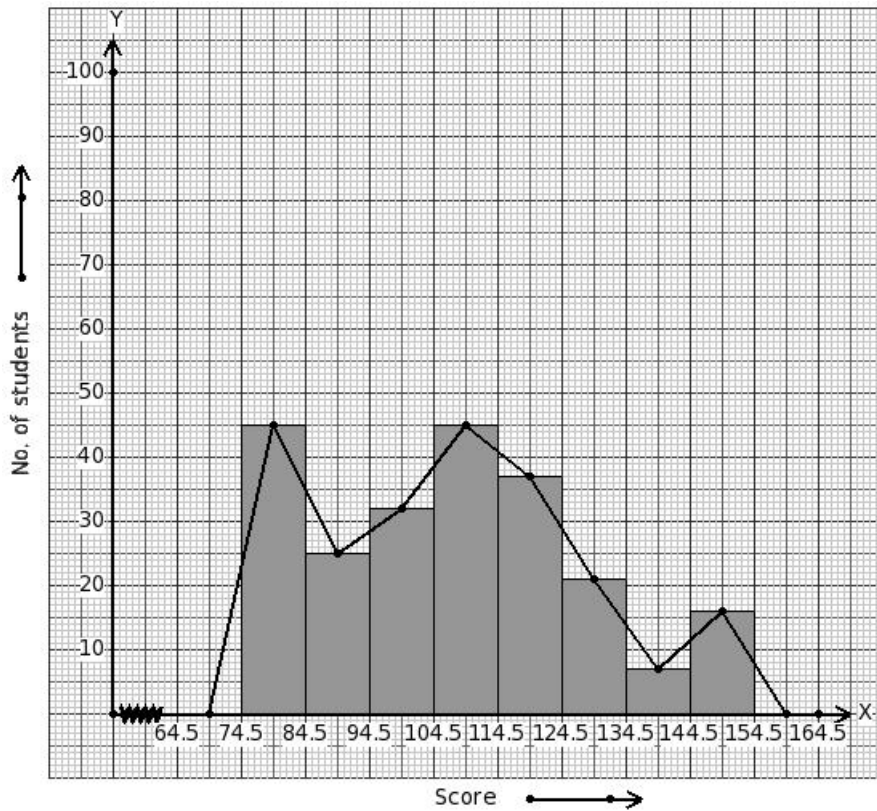
(iv)

| Score           | 87 - 93 | 93 - 99 | 99 - 105 | 105 - 111 | 111 - 117 | 117 - 123 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|
| No. of students | 38      | 19      | 9        | 10        | 17        | 9         |

(v)

| Score           | 87 - 93 | 93 - 99 | 99 - 105 | 105 - 111 | 111 - 117 | 117 - 123 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|
| No. of students | 38      | 9       | 19       | 13        | 17        | 9         |

14. Scores of 228 students are given Identify the class interval table for the given histogram and frequency polygon below.



(i)

| Score           | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 | 115 - 124 | 125 - 134 | 135 - 144 | 145 - 154 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 45      | 25      | 32       | 45        | 37        | 21        | 7         | 16        |

(ii)

| Score           | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 | 115 - 124 | 125 - 134 | 135 - 144 | 145 - 154 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 45      | 25      | 32       | 45        | 32        | 21        | 7         | 16        |

(iii)

| Score           | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 | 115 - 124 | 125 - 134 | 135 - 144 | 145 - 154 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 45      | 25      | 34       | 45        | 37        | 21        | 7         | 16        |

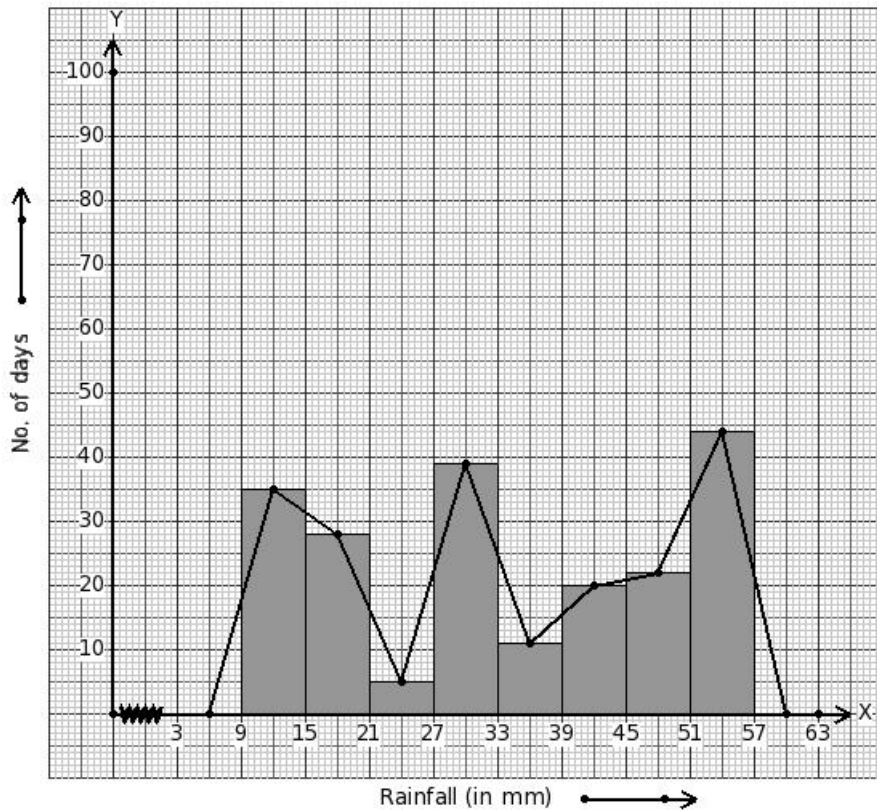
(iv)

| Score           | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 | 115 - 124 | 125 - 134 | 135 - 144 | 145 - 154 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 45      | 25      | 45       | 32        | 37        | 21        | 7         | 16        |

(v)

| Score           | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 | 115 - 124 | 125 - 134 | 135 - 144 | 145 - 154 |
|-----------------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 45      | 16      | 32       | 45        | 37        | 21        | 7         | 25        |

15. Rainfall of 204 days (in mm) are Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Rainfall (in mm) | 9 - 15 | 15 - 21 | 21 - 27 | 27 - 33 | 33 - 39 | 39 - 45 | 45 - 51 | 51 - 57 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 35     | 28      | 10      | 39      | 11      | 20      | 22      | 44      |

(ii)

| Rainfall (in mm) | 9 - 15 | 15 - 21 | 21 - 27 | 27 - 33 | 33 - 39 | 39 - 45 | 45 - 51 | 51 - 57 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 35     | 44      | 5       | 39      | 11      | 20      | 22      | 28      |

(iii)

| Rainfall (in mm) | 9 - 15 | 15 - 21 | 21 - 27 | 27 - 33 | 33 - 39 | 39 - 45 | 45 - 51 | 51 - 57 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 35     | 28      | 5       | 39      | 13      | 20      | 22      | 44      |

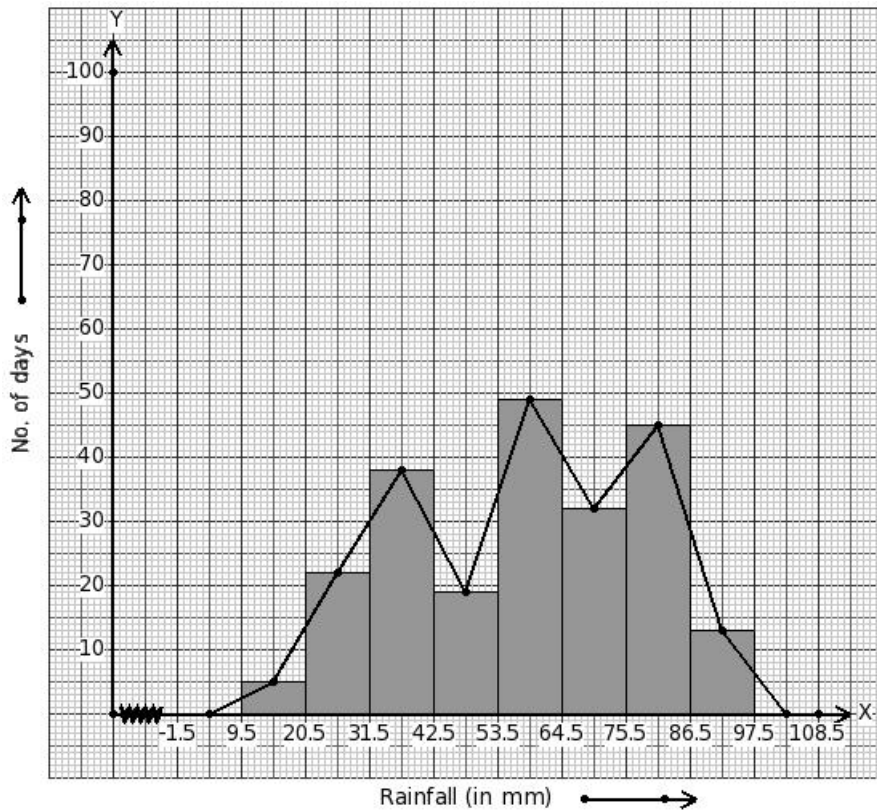
(iv)

| Rainfall (in mm) | 9 - 15 | 15 - 21 | 21 - 27 | 27 - 33 | 33 - 39 | 39 - 45 | 45 - 51 | 51 - 57 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 35     | 28      | 39      | 5       | 11      | 20      | 22      | 44      |

(v)

| Rainfall (in mm) | 9 - 15 | 15 - 21 | 21 - 27 | 27 - 33 | 33 - 39 | 39 - 45 | 45 - 51 | 51 - 57 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 35     | 28      | 5       | 39      | 11      | 20      | 22      | 44      |

16. Rainfall of 223 days (in mm) are Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Rainfall (in mm) | 10 - 20 | 21 - 31 | 32 - 42 | 43 - 53 | 54 - 64 | 65 - 75 | 76 - 86 | 87 - 97 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 5       | 13      | 38      | 19      | 49      | 32      | 45      | 22      |

(ii)

| Rainfall (in mm) | 10 - 20 | 21 - 31 | 32 - 42 | 43 - 53 | 54 - 64 | 65 - 75 | 76 - 86 | 87 - 97 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 5       | 22      | 38      | 19      | 49      | 32      | 45      | 13      |

(iii)

| Rainfall (in mm) | 10 - 20 | 21 - 31 | 32 - 42 | 43 - 53 | 54 - 64 | 65 - 75 | 76 - 86 | 87 - 97 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 5       | 22      | 19      | 38      | 49      | 32      | 45      | 13      |

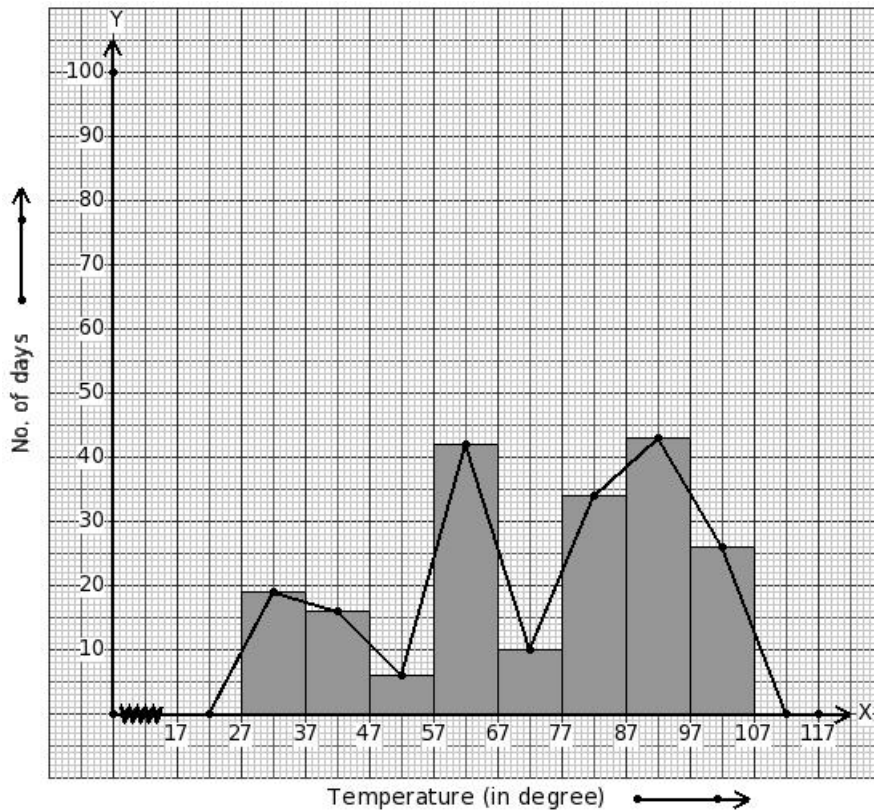
(iv)

| Rainfall (in mm) | 10 - 20 | 21 - 31 | 32 - 42 | 43 - 53 | 54 - 64 | 65 - 75 | 76 - 86 | 87 - 97 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 5       | 22      | 38      | 19      | 45      | 32      | 45      | 13      |

(v)

| Rainfall (in mm) | 10 - 20 | 21 - 31 | 32 - 42 | 43 - 53 | 54 - 64 | 65 - 75 | 76 - 86 | 87 - 97 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days      | 5       | 22      | 33      | 19      | 49      | 32      | 45      | 13      |

17. Temperatures of 196 days (in °C) are Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Temperature (in degree) | 27 - 37 | 37 - 47 | 47 - 57 | 57 - 67 | 67 - 77 | 77 - 87 | 87 - 97 | 97 - 107 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| No. of days             | 19      | 26      | 6       | 42      | 10      | 34      | 43      | 16       |

(ii)

| Temperature (in degree) | 27 - 37 | 37 - 47 | 47 - 57 | 57 - 67 | 67 - 77 | 77 - 87 | 87 - 97 | 97 - 107 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| No. of days             | 19      | 16      | 6       | 42      | 10      | 34      | 43      | 26       |

(iii)

| Temperature (in degree) | 27 - 37 | 37 - 47 | 47 - 57 | 57 - 67 | 67 - 77 | 77 - 87 | 87 - 97 | 97 - 107 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| No. of days             | 19      | 16      | 6       | 42      | 8       | 34      | 43      | 26       |

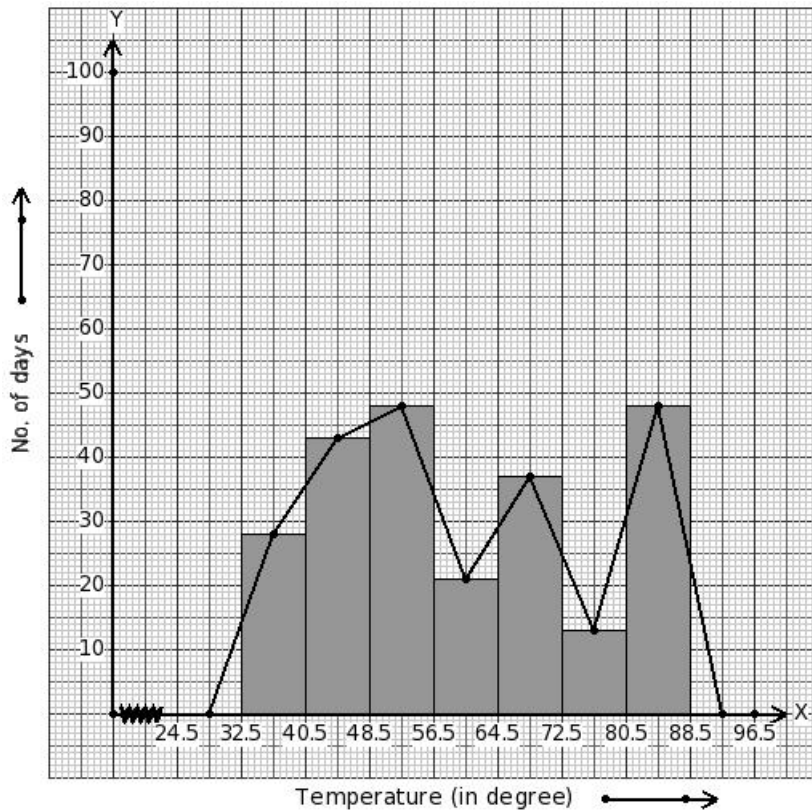
(iv)

| Temperature (in degree) | 27 - 37 | 37 - 47 | 47 - 57 | 57 - 67 | 67 - 77 | 77 - 87 | 87 - 97 | 97 - 107 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| No. of days             | 19      | 16      | 42      | 6       | 10      | 34      | 43      | 26       |

(v)

| Temperature (in degree) | 27 - 37 | 37 - 47 | 47 - 57 | 57 - 67 | 67 - 77 | 77 - 87 | 87 - 97 | 97 - 107 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|----------|
| No. of days             | 19      | 16      | 10      | 42      | 10      | 34      | 43      | 26       |

18. Temperatures of 238 days (in °C) are Identify the class interval table for the given histogram and frequency polygon given below.



(i)

| Temperature (in degree) | 33 - 40 | 41 - 48 | 49 - 56 | 57 - 64 | 65 - 72 | 73 - 80 | 81 - 88 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| No. of days             | 28      | 43      | 51      | 21      | 37      | 13      | 48      |

(ii)

| Temperature (in degree) | 33 - 40 | 41 - 48 | 49 - 56 | 57 - 64 | 65 - 72 | 73 - 80 | 81 - 88 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| No. of days             | 28      | 43      | 48      | 21      | 37      | 13      | 48      |

(iii)

| Temperature (in degree) | 33 - 40 | 41 - 48 | 49 - 56 | 57 - 64 | 65 - 72 | 73 - 80 | 81 - 88 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| No. of days             | 28      | 48      | 43      | 21      | 37      | 13      | 48      |

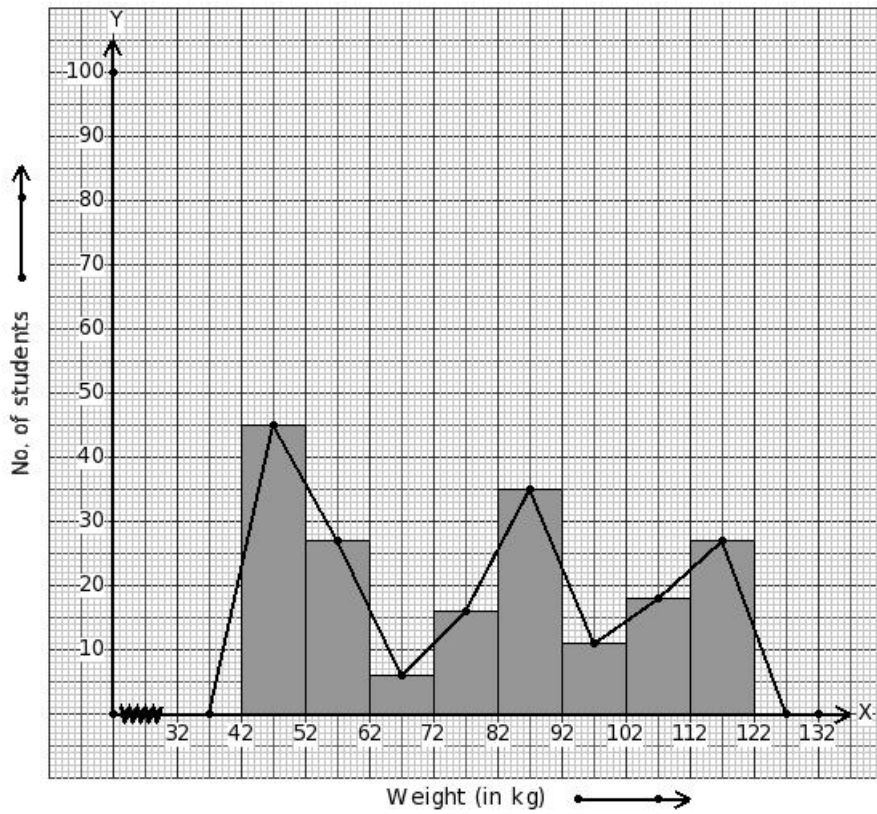
(iv)

| Temperature (in degree) | 33 - 40 | 41 - 48 | 49 - 56 | 57 - 64 | 65 - 72 | 73 - 80 | 81 - 88 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| No. of days             | 28      | 48      | 48      | 21      | 37      | 13      | 43      |

(v)

| Temperature (in degree) | 33 - 40 | 41 - 48 | 49 - 56 | 57 - 64 | 65 - 72 | 73 - 80 | 81 - 88 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| No. of days             | 28      | 43      | 48      | 19      | 37      | 13      | 48      |

19. Weights of 185 students (in kg) are Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Weight (in kg)  | 42 - 52 | 52 - 62 | 62 - 72 | 72 - 82 | 82 - 92 | 92 - 102 | 102 - 112 | 112 - 122 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of students | 45      | 27      | 6       | 16      | 35      | 11       | 18        | 27        |

(ii)

| Weight (in kg)  | 42 - 52 | 52 - 62 | 62 - 72 | 72 - 82 | 82 - 92 | 92 - 102 | 102 - 112 | 112 - 122 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of students | 45      | 27      | 6       | 16      | 39      | 11       | 18        | 27        |

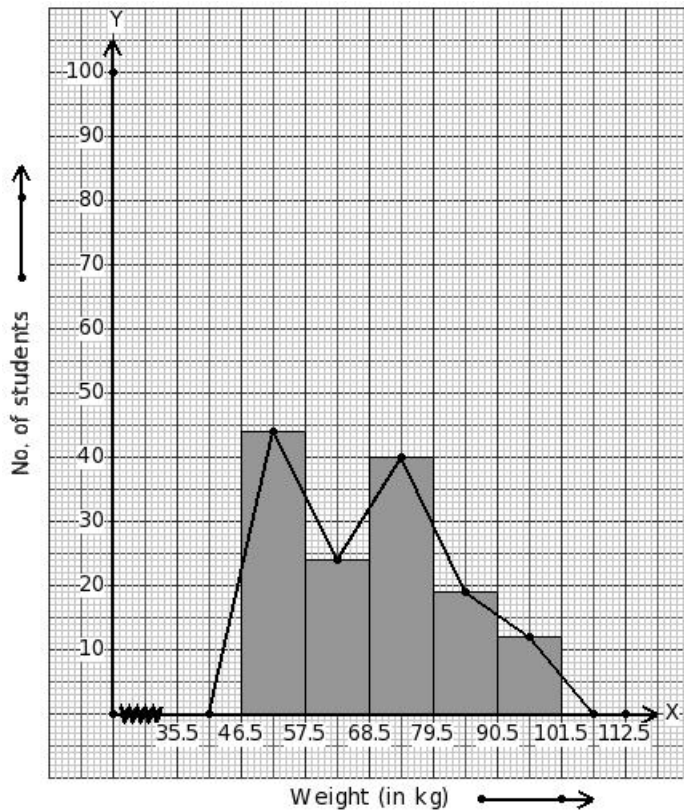
(iii)

| Weight (in kg)  | 42 - 52 | 52 - 62 | 62 - 72 | 72 - 82 | 82 - 92 | 92 - 102 | 102 - 112 | 112 - 122 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of students | 45      | 27      | 8       | 16      | 35      | 11       | 18        | 27        |

(iv)

| Weight (in kg)  | 42 - 52 | 52 - 62 | 62 - 72 | 72 - 82 | 82 - 92 | 92 - 102 | 102 - 112 | 112 - 122 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| No. of students | 45      | 27      | 16      | 6       | 35      | 11       | 18        | 27        |

20. Weights of 139 students (in kg) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Weight (in kg)  | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 |
|-----------------|---------|---------|---------|---------|----------|
| No. of students | 44      | 19      | 40      | 19      | 12       |

(ii)

| Weight (in kg)  | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 |
|-----------------|---------|---------|---------|---------|----------|
| No. of students | 44      | 40      | 24      | 19      | 12       |

(iii)

| Weight (in kg)  | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 |
|-----------------|---------|---------|---------|---------|----------|
| No. of students | 44      | 12      | 40      | 19      | 24       |

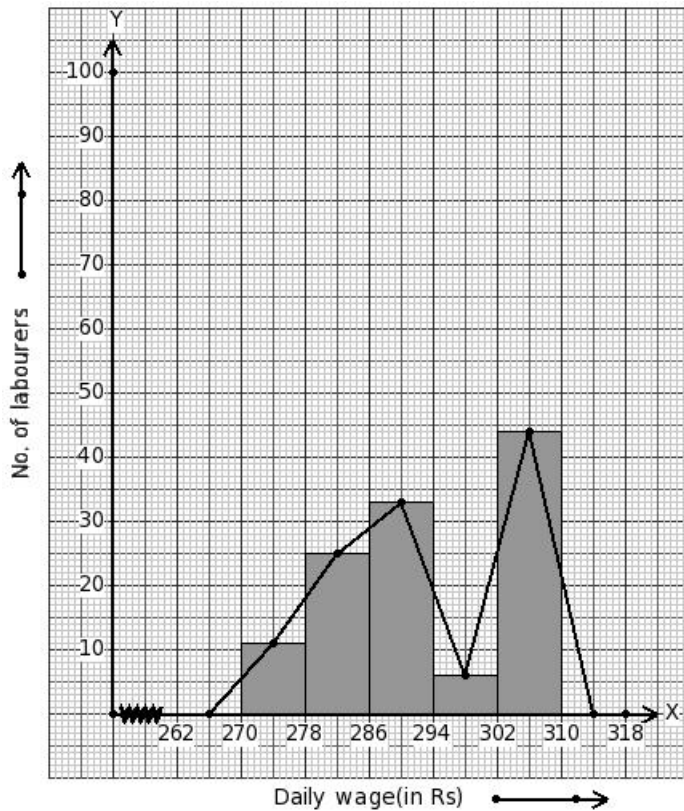
(iv)

| Weight (in kg)  | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 |
|-----------------|---------|---------|---------|---------|----------|
| No. of students | 44      | 24      | 40      | 19      | 12       |

(v)

| Weight (in kg)  | 47 - 57 | 58 - 68 | 69 - 79 | 80 - 90 | 91 - 101 |
|-----------------|---------|---------|---------|---------|----------|
| No. of students | 44      | 24      | 37      | 19      | 12       |

21. Daily wages of 119 labourers (in ₹) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Daily wage(in Rs) | 270 - 278 | 278 - 286 | 286 - 294 | 294 - 302 | 302 - 310 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 11        | 28        | 33        | 6         | 44        |

(ii)

| Daily wage(in Rs) | 270 - 278 | 278 - 286 | 286 - 294 | 294 - 302 | 302 - 310 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 11        | 44        | 33        | 6         | 25        |

(iii)

| Daily wage(in Rs) | 270 - 278 | 278 - 286 | 286 - 294 | 294 - 302 | 302 - 310 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 11        | 25        | 33        | 6         | 44        |

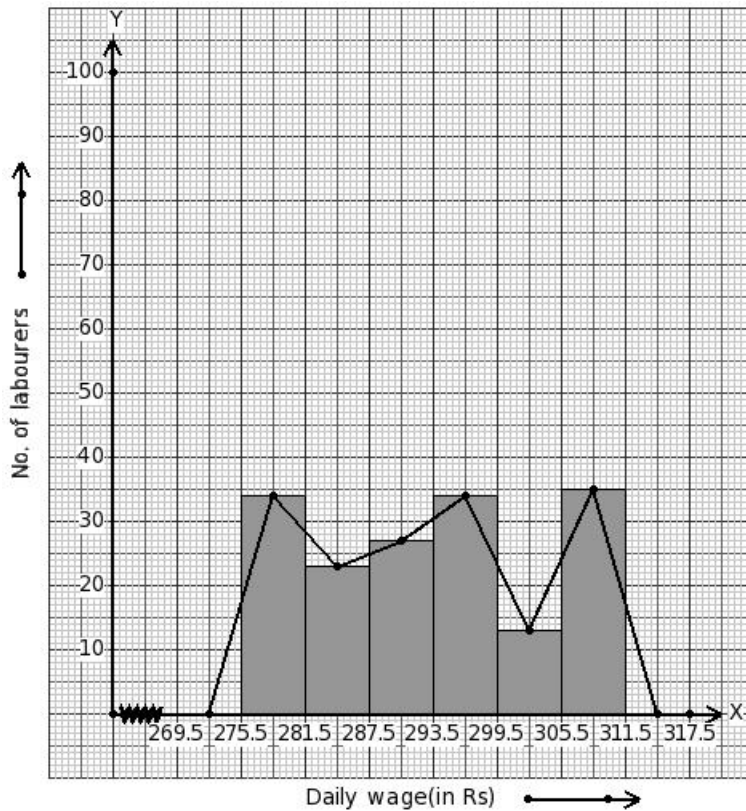
(iv)

| Daily wage(in Rs) | 270 - 278 | 278 - 286 | 286 - 294 | 294 - 302 | 302 - 310 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 11        | 33        | 25        | 6         | 44        |

(v)

| Daily wage(in Rs) | 270 - 278 | 278 - 286 | 286 - 294 | 294 - 302 | 302 - 310 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 11        | 25        | 36        | 6         | 44        |

22. Daily wages of 166 labourers (in ₹) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

| Daily wage(in Rs) | 276 - 281 | 282 - 287 | 288 - 293 | 294 - 299 | 300 - 305 | 306 - 311 |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 34        | 23        | 27        | 31        | 13        | 35        |

(ii)

| Daily wage(in Rs) | 276 - 281 | 282 - 287 | 288 - 293 | 294 - 299 | 300 - 305 | 306 - 311 |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 34        | 35        | 27        | 34        | 13        | 23        |

(iii)

| Daily wage(in Rs) | 276 - 281 | 282 - 287 | 288 - 293 | 294 - 299 | 300 - 305 | 306 - 311 |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 34        | 27        | 23        | 34        | 13        | 35        |

(iv)

| Daily wage(in Rs) | 276 - 281 | 282 - 287 | 288 - 293 | 294 - 299 | 300 - 305 | 306 - 311 |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 34        | 23        | 24        | 34        | 13        | 35        |

(v)

| Daily wage(in Rs) | 276 - 281 | 282 - 287 | 288 - 293 | 294 - 299 | 300 - 305 | 306 - 311 |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers  | 34        | 23        | 27        | 34        | 13        | 35        |

**Assignment Key**

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- 1) (v)
- 2) (v)
- 3) (iii)
- 4) (iii)
- 5) (ii)
- 6) (iii)
- 7) (iii)
- 8) (iv)
- 9) (ii)
- 10) (iii)
- 11) (iii)
- 12) (i)
- 13) (iii)
- 14) (i)
- 15) (v)
- 16) (ii)
- 17) (ii)
- 18) (ii)
- 19) (i)
- 20) (iv)
- 21) (iii)
- 22) (v)