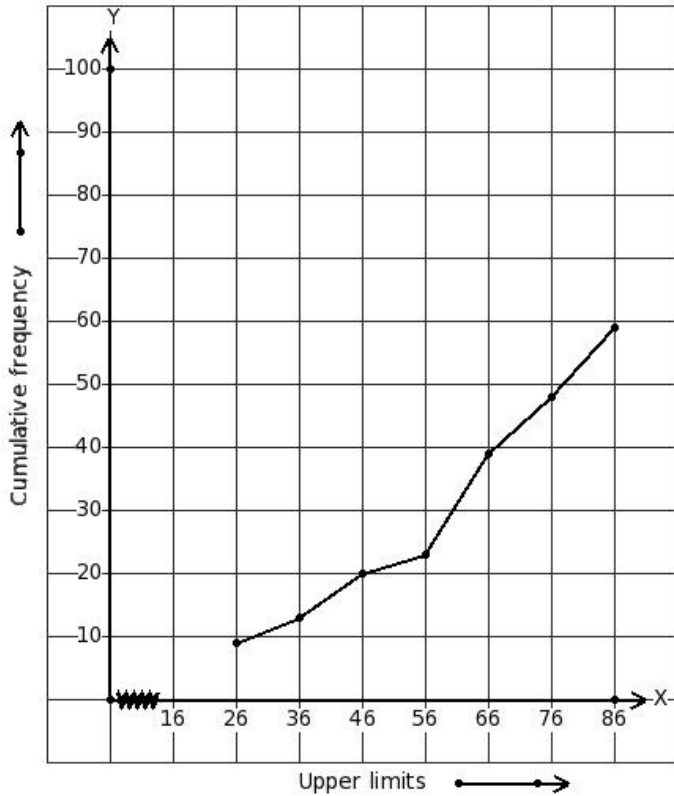




1. Identify the frequency distribution table for the given ogive.



(i)

| | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 16 - 26 | 26 - 36 | 36 - 46 | 46 - 56 | 56 - 66 | 66 - 76 | 76 - 86 |
| Frequency | 9 | 4 | 7 | 3 | 16 | 9 | 11 |

(ii)

| | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 16 - 26 | 26 - 36 | 36 - 46 | 46 - 56 | 56 - 66 | 66 - 76 | 76 - 86 |
| Frequency | 12 | 2 | 19 | 11 | 2 | 8 | 11 |

(iii)

| | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 16 - 26 | 26 - 36 | 36 - 46 | 46 - 56 | 56 - 66 | 66 - 76 | 76 - 86 |
| Frequency | 9 | 4 | 5 | 12 | 10 | 1 | 9 |

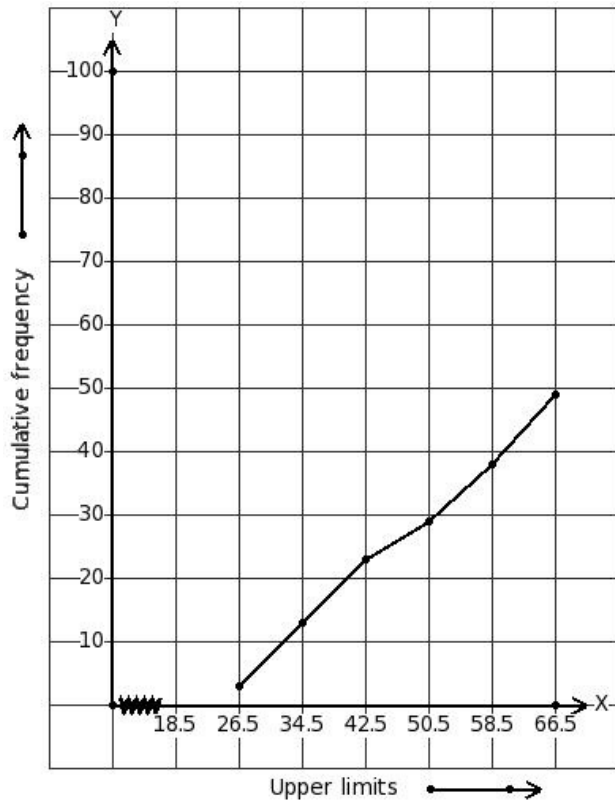
(iv)

| | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 16 - 26 | 26 - 36 | 36 - 46 | 46 - 56 | 56 - 66 | 66 - 76 | 76 - 86 |
| Frequency | 7 | 16 | 3 | 3 | 5 | 5 | 6 |

(v)

| | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 16 - 26 | 26 - 36 | 36 - 46 | 46 - 56 | 56 - 66 | 66 - 76 | 76 - 86 |
| Frequency | 9 | 12 | 4 | 9 | 15 | 2 | 12 |

2. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Class-Interval | 19 - 26 | 27 - 34 | 35 - 42 | 43 - 50 | 51 - 58 | 59 - 66 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency | 15 | 10 | 12 | 13 | 20 | 13 |

(ii)

| Class-Interval | 19 - 26 | 27 - 34 | 35 - 42 | 43 - 50 | 51 - 58 | 59 - 66 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency | 12 | 11 | 11 | 7 | 5 | 13 |

(iii)

| Class-Interval | 19 - 26 | 27 - 34 | 35 - 42 | 43 - 50 | 51 - 58 | 59 - 66 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency | 3 | 10 | 10 | 6 | 9 | 11 |

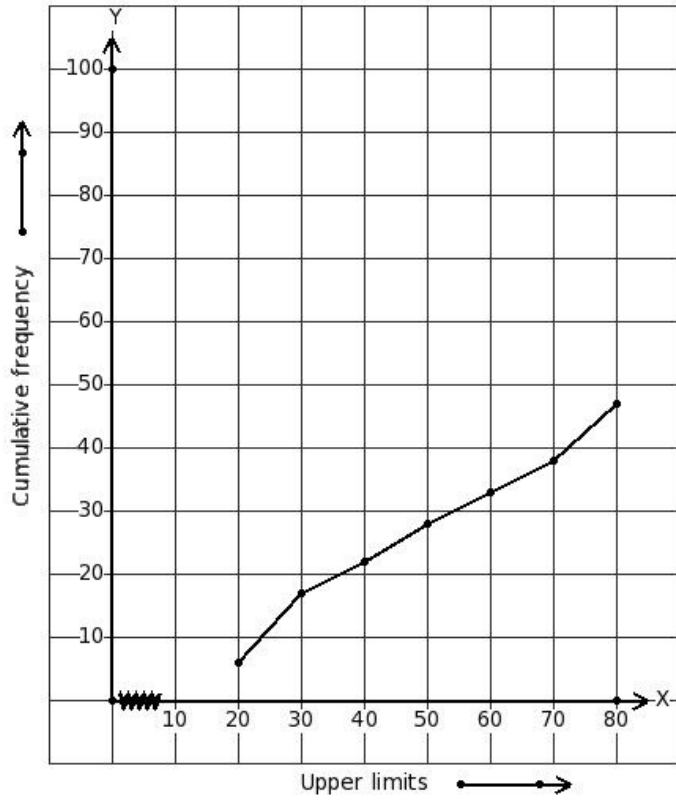
(iv)

| Class-Interval | 19 - 26 | 27 - 34 | 35 - 42 | 43 - 50 | 51 - 58 | 59 - 66 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency | 12 | 20 | 16 | 3 | 14 | 18 |

(v)

| Class-Interval | 19 - 26 | 27 - 34 | 35 - 42 | 43 - 50 | 51 - 58 | 59 - 66 |
|----------------|---------|---------|---------|---------|---------|---------|
| Frequency | 3 | 2 | 19 | 12 | 5 | 14 |

3. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Class-Interval | 10 - 20 | 20 - 30 | 30 - 40 | 40 - 50 | 50 - 60 | 60 - 70 | 70 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Frequency | 4 | 17 | 15 | 9 | 6 | 7 | 4 |

(ii)

| Class-Interval | 10 - 20 | 20 - 30 | 30 - 40 | 40 - 50 | 50 - 60 | 60 - 70 | 70 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Frequency | 17 | 2 | 9 | 12 | 17 | 2 | 9 |

(iii)

| Class-Interval | 10 - 20 | 20 - 30 | 30 - 40 | 40 - 50 | 50 - 60 | 60 - 70 | 70 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Frequency | 6 | 11 | 5 | 6 | 5 | 5 | 9 |

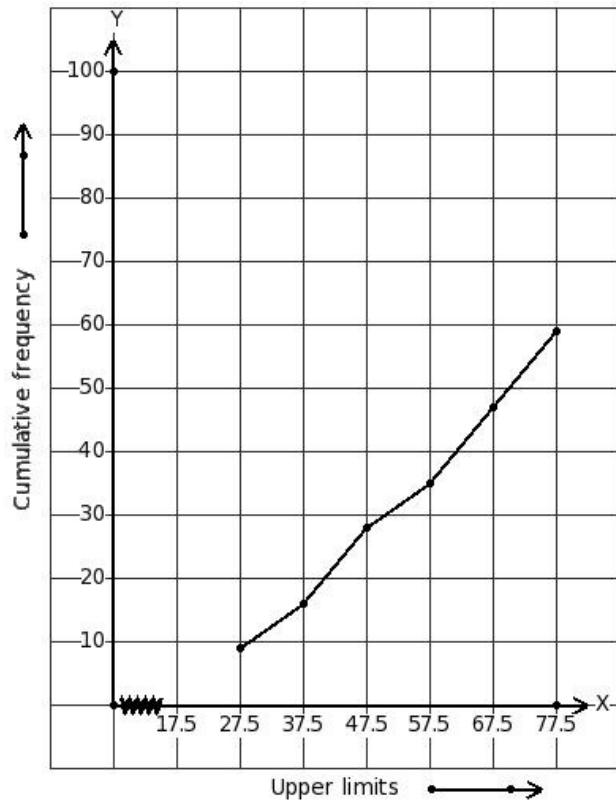
(iv)

| Class-Interval | 10 - 20 | 20 - 30 | 30 - 40 | 40 - 50 | 50 - 60 | 60 - 70 | 70 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Frequency | 1 | 13 | 8 | 14 | 3 | 11 | 18 |

(v)

| Class-Interval | 10 - 20 | 20 - 30 | 30 - 40 | 40 - 50 | 50 - 60 | 60 - 70 | 70 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Frequency | 15 | 14 | 19 | 19 | 16 | 1 | 5 |

4. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 18 - 27 | 28 - 37 | 38 - 47 | 48 - 57 | 58 - 67 | 68 - 77 |
| Frequency | 10 | 5 | 3 | 12 | 13 | 14 |

(ii)

| | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 18 - 27 | 28 - 37 | 38 - 47 | 48 - 57 | 58 - 67 | 68 - 77 |
| Frequency | 9 | 7 | 12 | 7 | 12 | 12 |

(iii)

| | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 18 - 27 | 28 - 37 | 38 - 47 | 48 - 57 | 58 - 67 | 68 - 77 |
| Frequency | 4 | 20 | 15 | 7 | 20 | 15 |

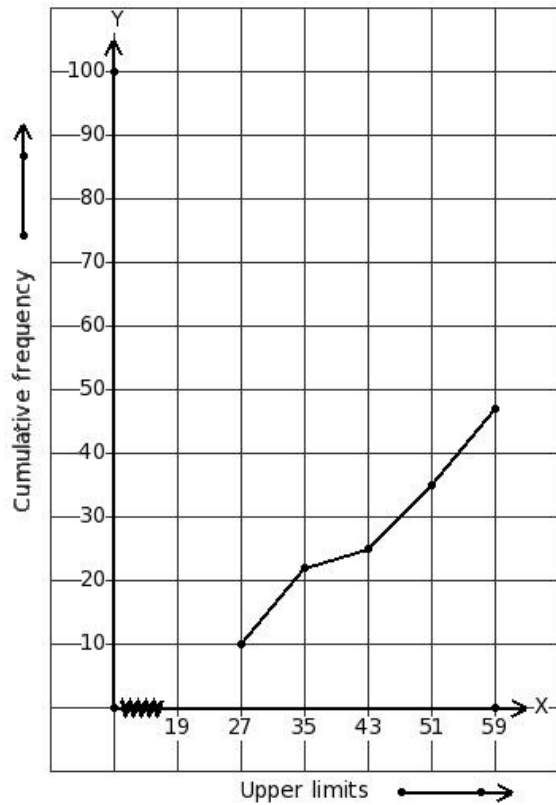
(iv)

| | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 18 - 27 | 28 - 37 | 38 - 47 | 48 - 57 | 58 - 67 | 68 - 77 |
| Frequency | 20 | 7 | 14 | 3 | 3 | 8 |

(v)

| | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|
| Class-Interval | 18 - 27 | 28 - 37 | 38 - 47 | 48 - 57 | 58 - 67 | 68 - 77 |
| Frequency | 9 | 2 | 13 | 8 | 15 | 15 |

5. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Class-Interval | 19 - 27 | 27 - 35 | 35 - 43 | 43 - 51 | 51 - 59 |
|----------------|---------|---------|---------|---------|---------|
| Frequency | 20 | 19 | 19 | 11 | 13 |

(ii)

| Class-Interval | 19 - 27 | 27 - 35 | 35 - 43 | 43 - 51 | 51 - 59 |
|----------------|---------|---------|---------|---------|---------|
| Frequency | 4 | 12 | 10 | 11 | 18 |

(iii)

| Class-Interval | 19 - 27 | 27 - 35 | 35 - 43 | 43 - 51 | 51 - 59 |
|----------------|---------|---------|---------|---------|---------|
| Frequency | 10 | 12 | 3 | 10 | 12 |

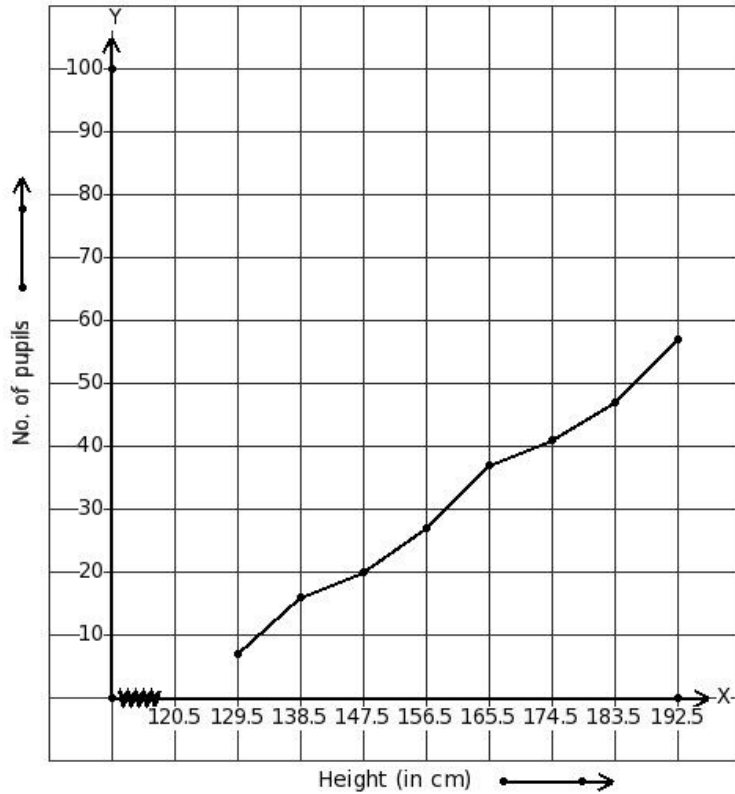
(iv)

| Class-Interval | 19 - 27 | 27 - 35 | 35 - 43 | 43 - 51 | 51 - 59 |
|----------------|---------|---------|---------|---------|---------|
| Frequency | 6 | 1 | 5 | 20 | 16 |

(v)

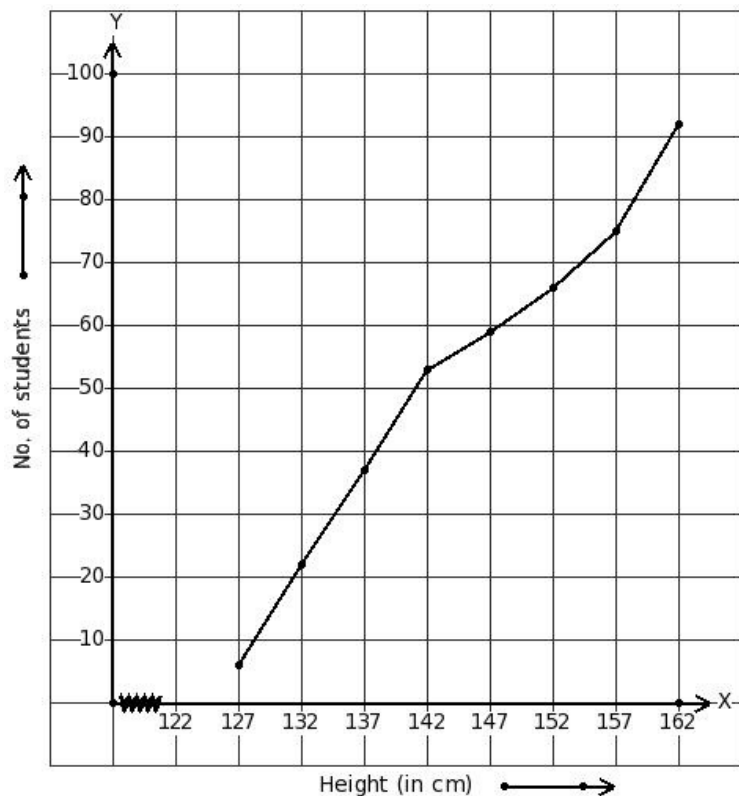
| Class-Interval | 19 - 27 | 27 - 35 | 35 - 43 | 43 - 51 | 51 - 59 |
|----------------|---------|---------|---------|---------|---------|
| Frequency | 19 | 15 | 1 | 2 | 19 |

6. The heights of 57 pupils in a school are given below. Identify the frequency distribution table for the given 'less than' ogive.



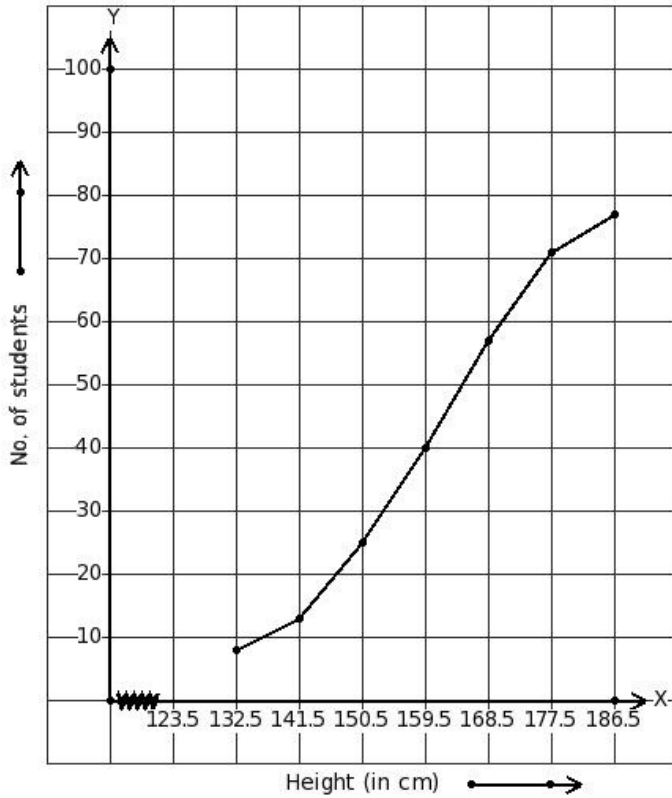
- (i)
- | Height (in cm) | 121 - 129 | 130 - 138 | 139 - 147 | 148 - 156 | 157 - 165 | 166 - 174 | 175 - 183 | 184 - 192 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of pupils | 7 | 10 | 4 | 7 | 10 | 4 | 6 | 9 |
- (ii)
- | Height (in cm) | 121 - 129 | 130 - 138 | 139 - 147 | 148 - 156 | 157 - 165 | 166 - 174 | 175 - 183 | 184 - 192 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of pupils | 7 | 9 | 8 | 7 | 10 | 4 | 6 | 10 |
- (iii)
- | Height (in cm) | 121 - 129 | 130 - 138 | 139 - 147 | 148 - 156 | 157 - 165 | 166 - 174 | 175 - 183 | 184 - 192 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of pupils | 7 | 9 | 4 | 7 | 8 | 4 | 6 | 10 |
- (iv)
- | Height (in cm) | 121 - 129 | 130 - 138 | 139 - 147 | 148 - 156 | 157 - 165 | 166 - 174 | 175 - 183 | 184 - 192 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of pupils | 7 | 9 | 4 | 7 | 10 | 4 | 6 | 10 |
- (v)
- | Height (in cm) | 121 - 129 | 130 - 138 | 139 - 147 | 148 - 156 | 157 - 165 | 166 - 174 | 175 - 183 | 184 - 192 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of pupils | 7 | 9 | 7 | 4 | 10 | 4 | 6 | 10 |

7. Heights of 92 students (in cm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



- (i)
- | Height (in cm) | 122 - 127 | 127 - 132 | 132 - 137 | 137 - 142 | 142 - 147 | 147 - 152 | 152 - 157 | 157 - 162 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 6 | 16 | 15 | 16 | 9 | 7 | 9 | 17 |
- (ii)
- | Height (in cm) | 122 - 127 | 127 - 132 | 132 - 137 | 137 - 142 | 142 - 147 | 147 - 152 | 152 - 157 | 157 - 162 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 6 | 16 | 15 | 16 | 6 | 7 | 9 | 17 |
- (iii)
- | Height (in cm) | 122 - 127 | 127 - 132 | 132 - 137 | 137 - 142 | 142 - 147 | 147 - 152 | 152 - 157 | 157 - 162 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 6 | 16 | 16 | 15 | 6 | 7 | 9 | 17 |
- (iv)
- | Height (in cm) | 122 - 127 | 127 - 132 | 132 - 137 | 137 - 142 | 142 - 147 | 147 - 152 | 152 - 157 | 157 - 162 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 6 | 17 | 15 | 16 | 6 | 7 | 9 | 16 |
- (v)
- | Height (in cm) | 122 - 127 | 127 - 132 | 132 - 137 | 137 - 142 | 142 - 147 | 147 - 152 | 152 - 157 | 157 - 162 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 6 | 16 | 18 | 16 | 6 | 7 | 9 | 17 |

8. Heights of 77 students (in cm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Height (in cm) | 124 - 132 | 133 - 141 | 142 - 150 | 151 - 159 | 160 - 168 | 169 - 177 | 178 - 186 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 8 | 12 | 5 | 15 | 17 | 14 | 6 |

(ii)

| Height (in cm) | 124 - 132 | 133 - 141 | 142 - 150 | 151 - 159 | 160 - 168 | 169 - 177 | 178 - 186 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 8 | 5 | 7 | 15 | 17 | 14 | 6 |

(iii)

| Height (in cm) | 124 - 132 | 133 - 141 | 142 - 150 | 151 - 159 | 160 - 168 | 169 - 177 | 178 - 186 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 8 | 5 | 12 | 10 | 17 | 14 | 6 |

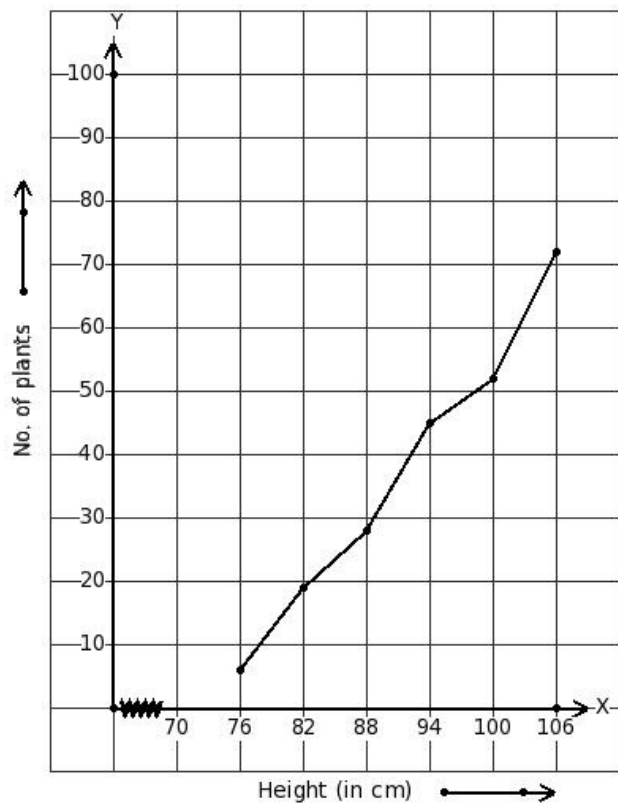
(iv)

| Height (in cm) | 124 - 132 | 133 - 141 | 142 - 150 | 151 - 159 | 160 - 168 | 169 - 177 | 178 - 186 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 8 | 6 | 12 | 15 | 17 | 14 | 5 |

(v)

| Height (in cm) | 124 - 132 | 133 - 141 | 142 - 150 | 151 - 159 | 160 - 168 | 169 - 177 | 178 - 186 |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of students | 8 | 5 | 12 | 15 | 17 | 14 | 6 |

9. Heights of 72 plants (in cm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Height (in cm) | 70 - 76 | 76 - 82 | 82 - 88 | 88 - 94 | 94 - 100 | 100 - 106 |
|----------------|---------|---------|---------|---------|----------|-----------|
| No. of plants | 6 | 20 | 9 | 17 | 7 | 13 |

(ii)

| Height (in cm) | 70 - 76 | 76 - 82 | 82 - 88 | 88 - 94 | 94 - 100 | 100 - 106 |
|----------------|---------|---------|---------|---------|----------|-----------|
| No. of plants | 6 | 13 | 9 | 17 | 7 | 20 |

(iii)

| Height (in cm) | 70 - 76 | 76 - 82 | 82 - 88 | 88 - 94 | 94 - 100 | 100 - 106 |
|----------------|---------|---------|---------|---------|----------|-----------|
| No. of plants | 6 | 9 | 13 | 17 | 7 | 20 |

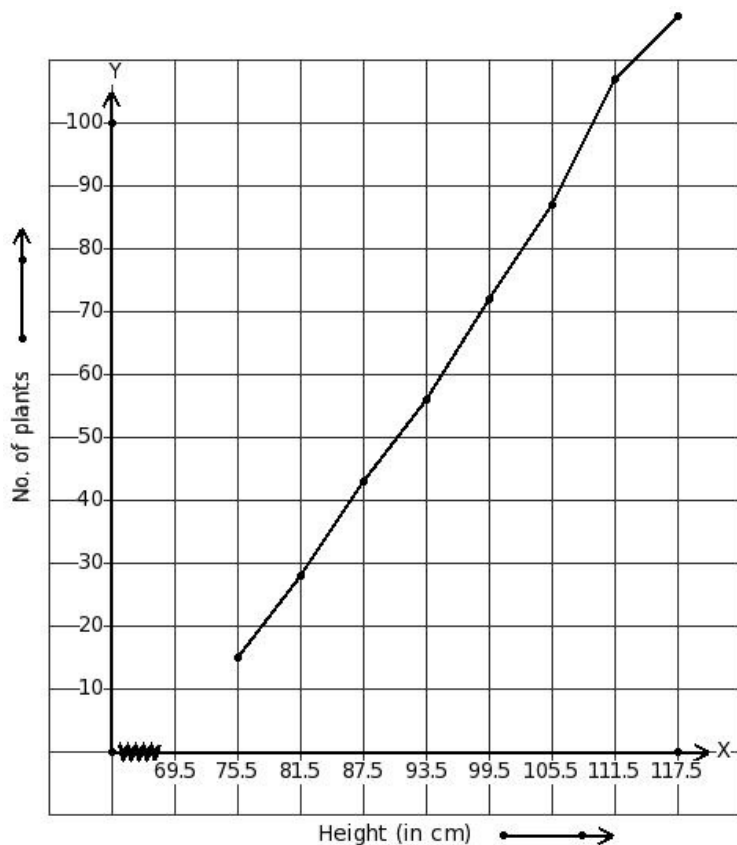
(iv)

| Height (in cm) | 70 - 76 | 76 - 82 | 82 - 88 | 88 - 94 | 94 - 100 | 100 - 106 |
|----------------|---------|---------|---------|---------|----------|-----------|
| No. of plants | 6 | 13 | 4 | 17 | 7 | 20 |

(v)

| Height (in cm) | 70 - 76 | 76 - 82 | 82 - 88 | 88 - 94 | 94 - 100 | 100 - 106 |
|----------------|---------|---------|---------|---------|----------|-----------|
| No. of plants | 6 | 13 | 9 | 12 | 7 | 20 |

10. Heights of 117 plants (in cm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Height (in cm) | 70 - 75 | 76 - 81 | 82 - 87 | 88 - 93 | 94 - 99 | 100 - 105 | 106 - 111 | 112 - 117 |
|----------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|
| No. of plants | 15 | 13 | 15 | 13 | 16 | 15 | 20 | 10 |

(ii)

| Height (in cm) | 70 - 75 | 76 - 81 | 82 - 87 | 88 - 93 | 94 - 99 | 100 - 105 | 106 - 111 | 112 - 117 |
|----------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|
| No. of plants | 15 | 13 | 10 | 13 | 16 | 15 | 20 | 10 |

(iii)

| Height (in cm) | 70 - 75 | 76 - 81 | 82 - 87 | 88 - 93 | 94 - 99 | 100 - 105 | 106 - 111 | 112 - 117 |
|----------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|
| No. of plants | 15 | 13 | 15 | 13 | 19 | 15 | 20 | 10 |

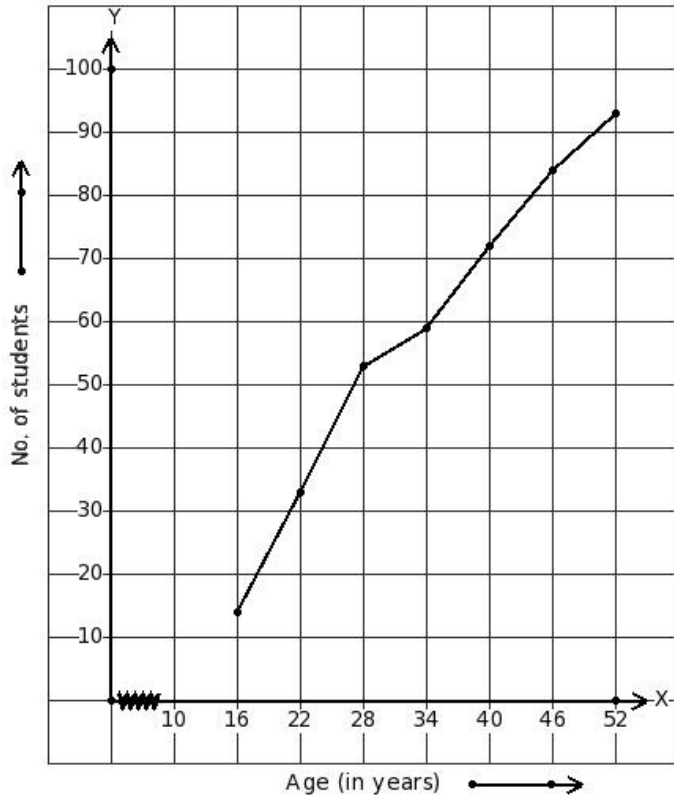
(iv)

| Height (in cm) | 70 - 75 | 76 - 81 | 82 - 87 | 88 - 93 | 94 - 99 | 100 - 105 | 106 - 111 | 112 - 117 |
|----------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|
| No. of plants | 15 | 13 | 13 | 15 | 16 | 15 | 20 | 10 |

(v)

| Height (in cm) | 70 - 75 | 76 - 81 | 82 - 87 | 88 - 93 | 94 - 99 | 100 - 105 | 106 - 111 | 112 - 117 |
|----------------|---------|---------|---------|---------|---------|-----------|-----------|-----------|
| No. of plants | 15 | 10 | 15 | 13 | 16 | 15 | 20 | 13 |

11. Ages of 93 students (in years) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Age (in years) | 10 - 16 | 16 - 22 | 22 - 28 | 28 - 34 | 34 - 40 | 40 - 46 | 46 - 52 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 14 | 19 | 20 | 6 | 13 | 12 | 9 |

(ii)

| Age (in years) | 10 - 16 | 16 - 22 | 22 - 28 | 28 - 34 | 34 - 40 | 40 - 46 | 46 - 52 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 14 | 19 | 20 | 11 | 13 | 12 | 9 |

(iii)

| Age (in years) | 10 - 16 | 16 - 22 | 22 - 28 | 28 - 34 | 34 - 40 | 40 - 46 | 46 - 52 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 14 | 19 | 15 | 6 | 13 | 12 | 9 |

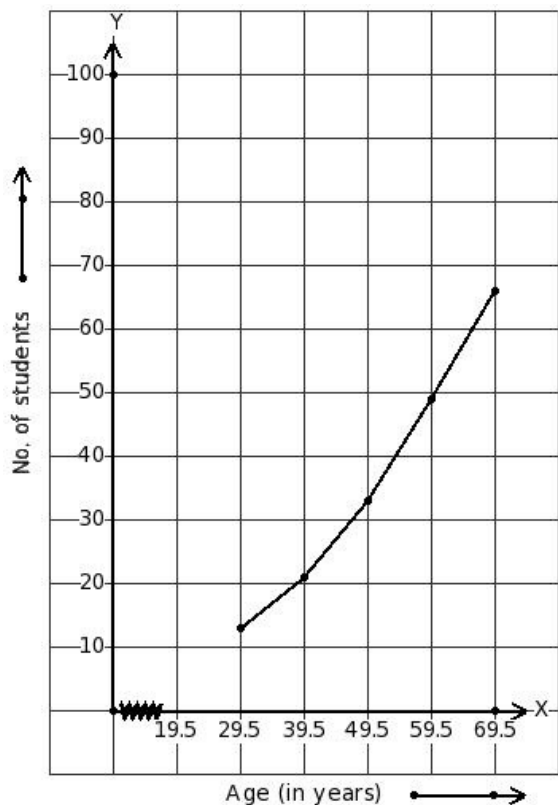
(iv)

| Age (in years) | 10 - 16 | 16 - 22 | 22 - 28 | 28 - 34 | 34 - 40 | 40 - 46 | 46 - 52 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 14 | 9 | 20 | 6 | 13 | 12 | 19 |

(v)

| Age (in years) | 10 - 16 | 16 - 22 | 22 - 28 | 28 - 34 | 34 - 40 | 40 - 46 | 46 - 52 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| No. of students | 14 | 20 | 19 | 6 | 13 | 12 | 9 |

12. Ages of 66 students (in years) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Age (in years) | 20 - 29 | 30 - 39 | 40 - 49 | 50 - 59 | 60 - 69 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 13 | 8 | 9 | 16 | 17 |

(ii)

| Age (in years) | 20 - 29 | 30 - 39 | 40 - 49 | 50 - 59 | 60 - 69 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 13 | 8 | 12 | 16 | 17 |

(iii)

| Age (in years) | 20 - 29 | 30 - 39 | 40 - 49 | 50 - 59 | 60 - 69 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 13 | 17 | 12 | 16 | 8 |

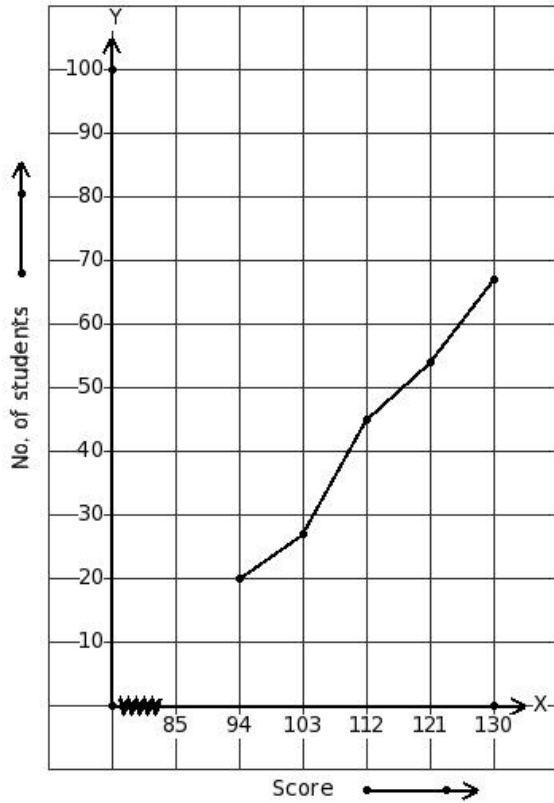
(iv)

| Age (in years) | 20 - 29 | 30 - 39 | 40 - 49 | 50 - 59 | 60 - 69 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 13 | 12 | 8 | 16 | 17 |

(v)

| Age (in years) | 20 - 29 | 30 - 39 | 40 - 49 | 50 - 59 | 60 - 69 |
|-----------------|---------|---------|---------|---------|---------|
| No. of students | 13 | 3 | 12 | 16 | 17 |

13. Scores of 67 students are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Score | 85 - 94 | 94 - 103 | 103 - 112 | 112 - 121 | 121 - 130 |
|------------------------|---------|----------|-----------|-----------|-----------|
| No. of students | 20 | 7 | 18 | 9 | 13 |

(ii)

| Score | 85 - 94 | 94 - 103 | 103 - 112 | 112 - 121 | 121 - 130 |
|------------------------|---------|----------|-----------|-----------|-----------|
| No. of students | 20 | 18 | 7 | 9 | 13 |

(iii)

| Score | 85 - 94 | 94 - 103 | 103 - 112 | 112 - 121 | 121 - 130 |
|------------------------|---------|----------|-----------|-----------|-----------|
| No. of students | 20 | 2 | 18 | 9 | 13 |

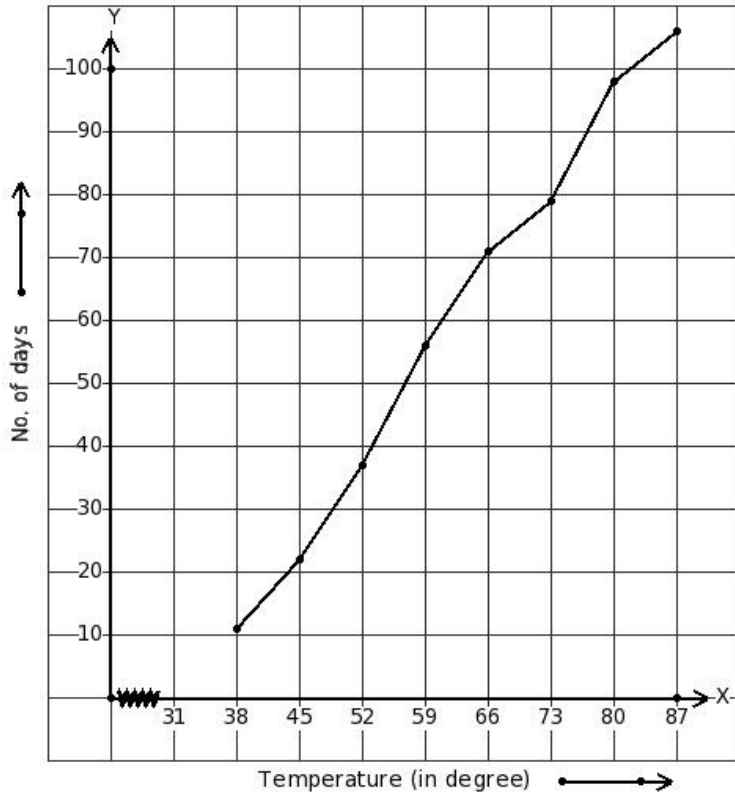
(iv)

| Score | 85 - 94 | 94 - 103 | 103 - 112 | 112 - 121 | 121 - 130 |
|------------------------|---------|----------|-----------|-----------|-----------|
| No. of students | 20 | 7 | 14 | 9 | 13 |

(v)

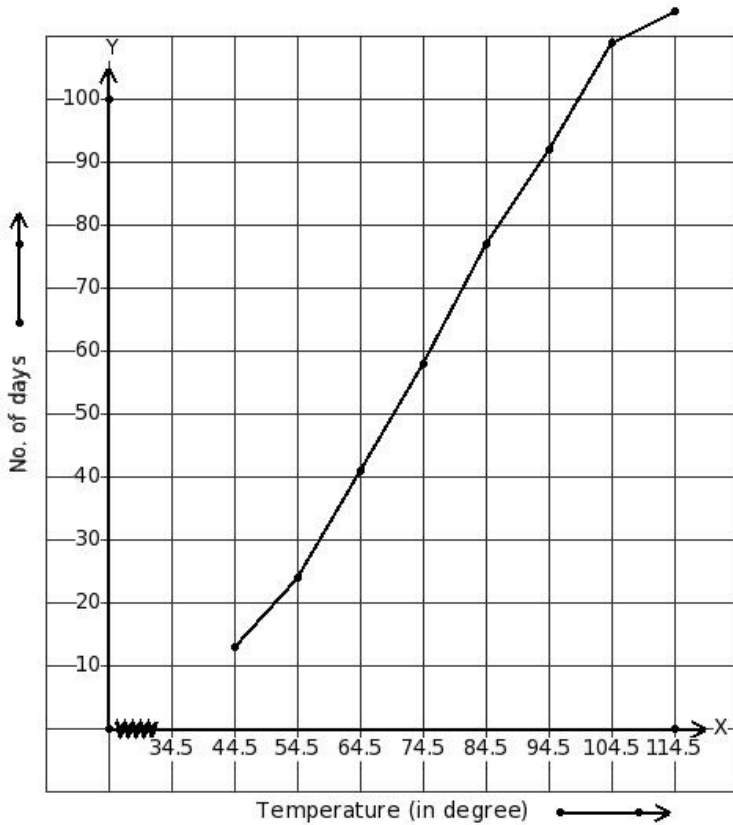
| Score | 85 - 94 | 94 - 103 | 103 - 112 | 112 - 121 | 121 - 130 |
|------------------------|---------|----------|-----------|-----------|-----------|
| No. of students | 20 | 13 | 18 | 9 | 7 |

14. Temperatures of 106 days (in °C) are given below. Identify the frequency distribution table for the given 'less than' ogive.



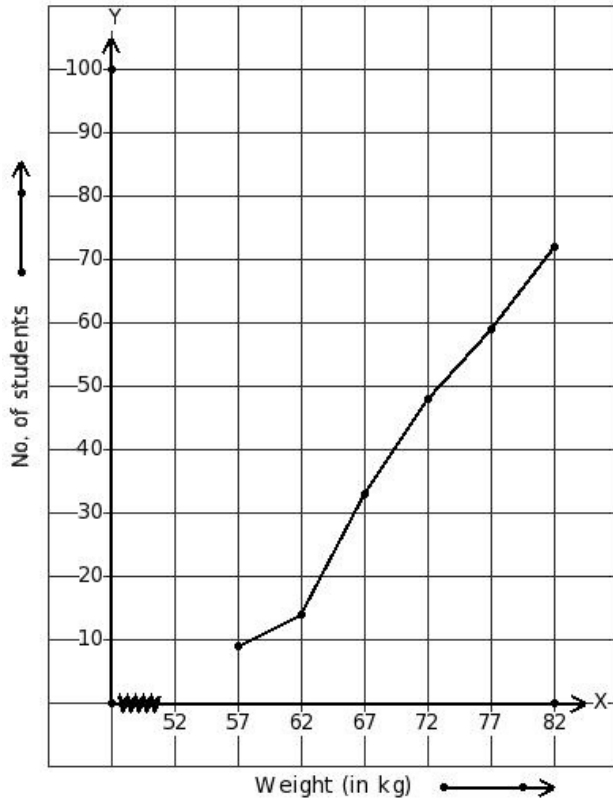
- (i)
- | Temperature (in degree) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 | 80 - 87 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 11 | 11 | 15 | 19 | 15 | 8 | 19 | 8 |
- (ii)
- | Temperature (in degree) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 | 80 - 87 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 11 | 11 | 10 | 19 | 15 | 8 | 19 | 8 |
- (iii)
- | Temperature (in degree) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 | 80 - 87 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 11 | 11 | 19 | 15 | 15 | 8 | 19 | 8 |
- (iv)
- | Temperature (in degree) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 | 80 - 87 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 11 | 11 | 15 | 19 | 17 | 8 | 19 | 8 |
- (v)
- | Temperature (in degree) | 31 - 38 | 38 - 45 | 45 - 52 | 52 - 59 | 59 - 66 | 66 - 73 | 73 - 80 | 80 - 87 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 11 | 8 | 15 | 19 | 15 | 8 | 19 | 11 |

15. Temperatures of 114 days (in °C) are given below. Identify the frequency distribution table for the given 'less than' ogive.



- (i)
- | Temperature (in degree) | 35 - 44 | 45 - 54 | 55 - 64 | 65 - 74 | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 |
|-------------------------|---------|---------|---------|---------|---------|---------|----------|-----------|
| No. of days | 13 | 5 | 17 | 17 | 19 | 15 | 17 | 11 |
- (ii)
- | Temperature (in degree) | 35 - 44 | 45 - 54 | 55 - 64 | 65 - 74 | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 |
|-------------------------|---------|---------|---------|---------|---------|---------|----------|-----------|
| No. of days | 13 | 11 | 17 | 17 | 14 | 15 | 17 | 5 |
- (iii)
- | Temperature (in degree) | 35 - 44 | 45 - 54 | 55 - 64 | 65 - 74 | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 |
|-------------------------|---------|---------|---------|---------|---------|---------|----------|-----------|
| No. of days | 13 | 11 | 17 | 17 | 19 | 15 | 17 | 5 |
- (iv)
- | Temperature (in degree) | 35 - 44 | 45 - 54 | 55 - 64 | 65 - 74 | 75 - 84 | 85 - 94 | 95 - 104 | 105 - 114 |
|-------------------------|---------|---------|---------|---------|---------|---------|----------|-----------|
| No. of days | 13 | 11 | 19 | 17 | 19 | 15 | 17 | 5 |

16. Weights of 72 students (in kg) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Weight (in kg) | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 | 72 - 77 | 77 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of students | 9 | 5 | 19 | 11 | 11 | 13 |

(ii)

| Weight (in kg) | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 | 72 - 77 | 77 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of students | 9 | 5 | 19 | 15 | 11 | 13 |

(iii)

| Weight (in kg) | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 | 72 - 77 | 77 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of students | 9 | 5 | 21 | 15 | 11 | 13 |

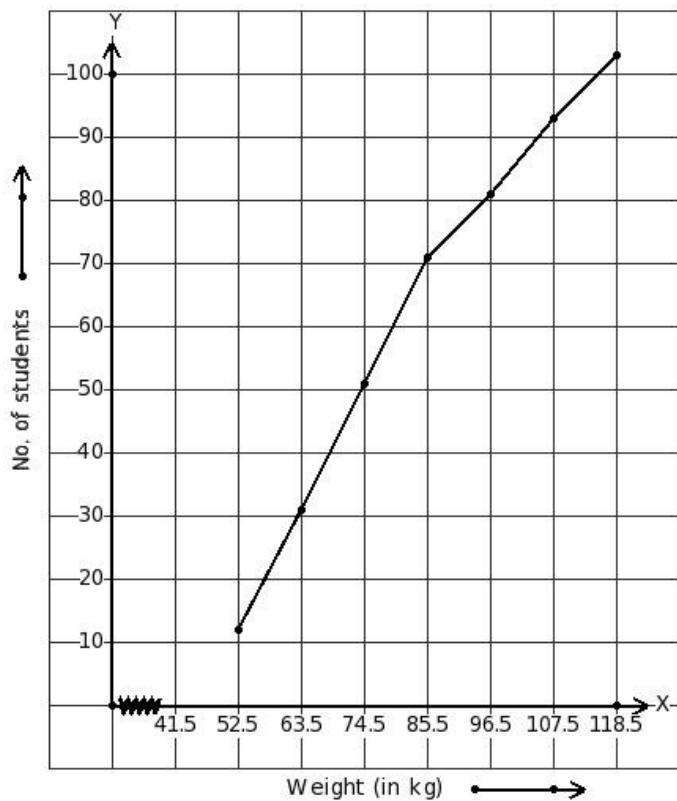
(iv)

| Weight (in kg) | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 | 72 - 77 | 77 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of students | 9 | 19 | 5 | 15 | 11 | 13 |

(v)

| Weight (in kg) | 52 - 57 | 57 - 62 | 62 - 67 | 67 - 72 | 72 - 77 | 77 - 82 |
|-----------------|---------|---------|---------|---------|---------|---------|
| No. of students | 9 | 13 | 19 | 15 | 11 | 5 |

17. Weights of 103 students (in kg) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Weight (in kg) | 42 - 52 | 53 - 63 | 64 - 74 | 75 - 85 | 86 - 96 | 97 - 107 | 108 - 118 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|
| No. of students | 12 | 19 | 22 | 20 | 10 | 12 | 10 |

(ii)

| Weight (in kg) | 42 - 52 | 53 - 63 | 64 - 74 | 75 - 85 | 86 - 96 | 97 - 107 | 108 - 118 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|
| No. of students | 12 | 19 | 20 | 20 | 10 | 12 | 10 |

(iii)

| Weight (in kg) | 42 - 52 | 53 - 63 | 64 - 74 | 75 - 85 | 86 - 96 | 97 - 107 | 108 - 118 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|
| No. of students | 12 | 19 | 20 | 22 | 10 | 12 | 10 |

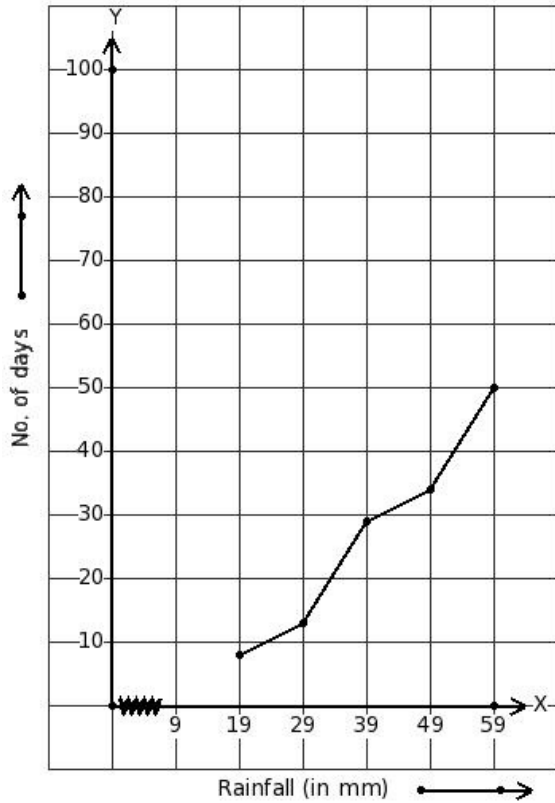
(iv)

| Weight (in kg) | 42 - 52 | 53 - 63 | 64 - 74 | 75 - 85 | 86 - 96 | 97 - 107 | 108 - 118 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|
| No. of students | 12 | 20 | 19 | 20 | 10 | 12 | 10 |

(v)

| Weight (in kg) | 42 - 52 | 53 - 63 | 64 - 74 | 75 - 85 | 86 - 96 | 97 - 107 | 108 - 118 |
|-----------------|---------|---------|---------|---------|---------|----------|-----------|
| No. of students | 12 | 10 | 20 | 20 | 10 | 12 | 19 |

18. Rainfall of 50 days (in mm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

| Rainfall (in mm) | 9 - 19 | 19 - 29 | 29 - 39 | 39 - 49 | 49 - 59 |
|------------------|--------|---------|---------|---------|---------|
| No. of days | 8 | 5 | 20 | 5 | 16 |

(ii)

| Rainfall (in mm) | 9 - 19 | 19 - 29 | 29 - 39 | 39 - 49 | 49 - 59 |
|------------------|--------|---------|---------|---------|---------|
| No. of days | 8 | 16 | 16 | 5 | 5 |

(iii)

| Rainfall (in mm) | 9 - 19 | 19 - 29 | 29 - 39 | 39 - 49 | 49 - 59 |
|------------------|--------|---------|---------|---------|---------|
| No. of days | 8 | 10 | 16 | 5 | 16 |

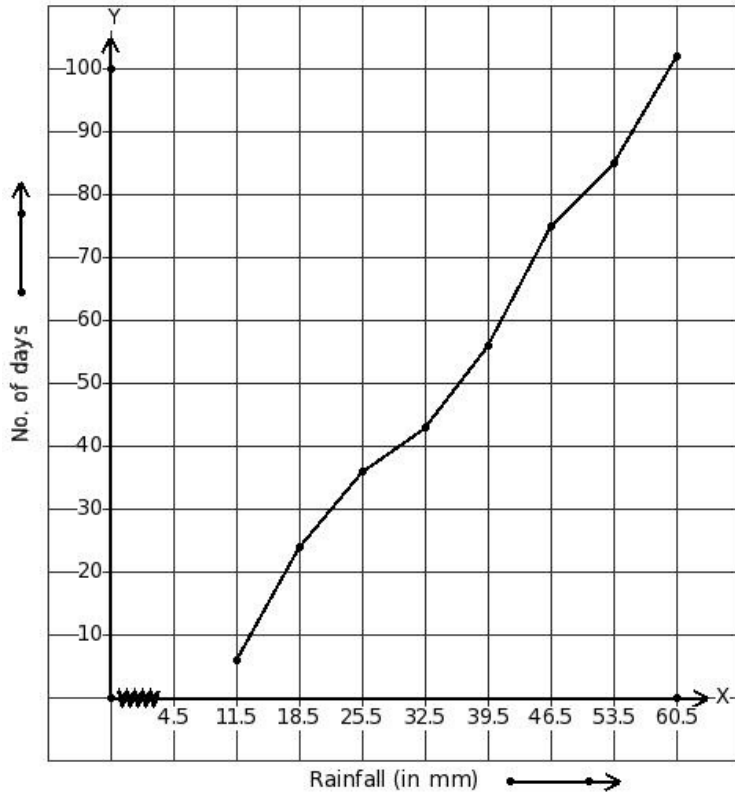
(iv)

| Rainfall (in mm) | 9 - 19 | 19 - 29 | 29 - 39 | 39 - 49 | 49 - 59 |
|------------------|--------|---------|---------|---------|---------|
| No. of days | 8 | 5 | 16 | 5 | 16 |

(v)

| Rainfall (in mm) | 9 - 19 | 19 - 29 | 29 - 39 | 39 - 49 | 49 - 59 |
|------------------|--------|---------|---------|---------|---------|
| No. of days | 8 | 16 | 5 | 5 | 16 |

19. Rainfall of 102 days (in mm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



- (i)

| Rainfall (in mm) | 5 - 11 | 12 - 18 | 19 - 25 | 26 - 32 | 33 - 39 | 40 - 46 | 47 - 53 | 54 - 60 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 6 | 18 | 7 | 7 | 13 | 19 | 10 | 17 |
- (ii)

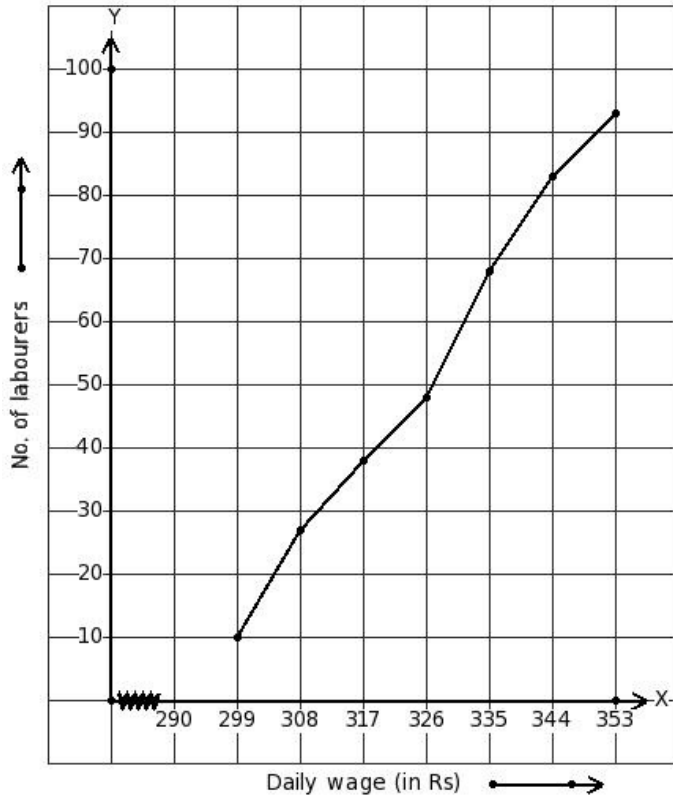
| Rainfall (in mm) | 5 - 11 | 12 - 18 | 19 - 25 | 26 - 32 | 33 - 39 | 40 - 46 | 47 - 53 | 54 - 60 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 6 | 17 | 12 | 7 | 13 | 19 | 10 | 18 |
- (iii)

| Rainfall (in mm) | 5 - 11 | 12 - 18 | 19 - 25 | 26 - 32 | 33 - 39 | 40 - 46 | 47 - 53 | 54 - 60 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 6 | 18 | 12 | 7 | 10 | 19 | 10 | 17 |
- (iv)

| Rainfall (in mm) | 5 - 11 | 12 - 18 | 19 - 25 | 26 - 32 | 33 - 39 | 40 - 46 | 47 - 53 | 54 - 60 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 6 | 18 | 7 | 12 | 13 | 19 | 10 | 17 |
- (v)

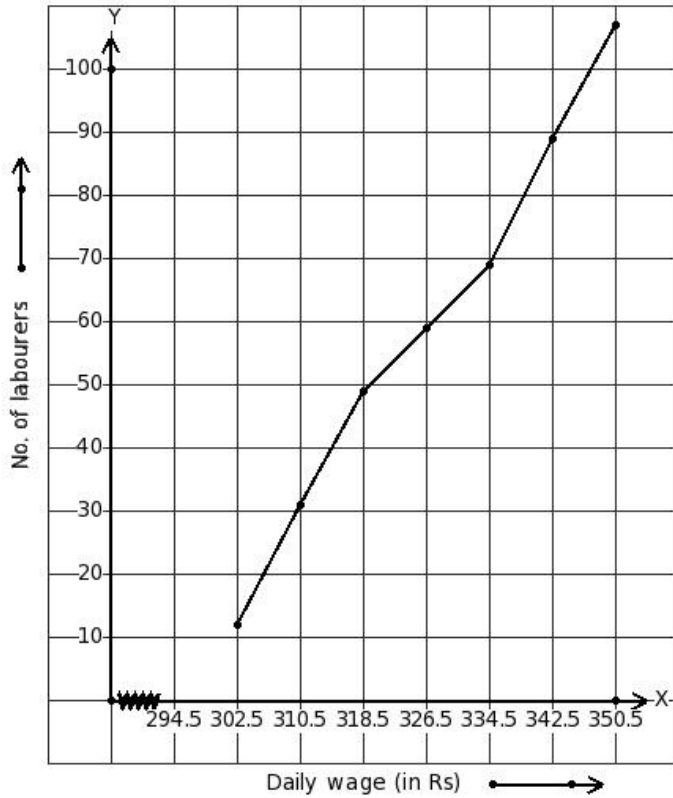
| Rainfall (in mm) | 5 - 11 | 12 - 18 | 19 - 25 | 26 - 32 | 33 - 39 | 40 - 46 | 47 - 53 | 54 - 60 |
|------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| No. of days | 6 | 18 | 12 | 7 | 13 | 19 | 10 | 17 |

20. Daily wages of 93 labourers (in ₹) are given below. Identify the frequency distribution table for the given 'less than' ogive.



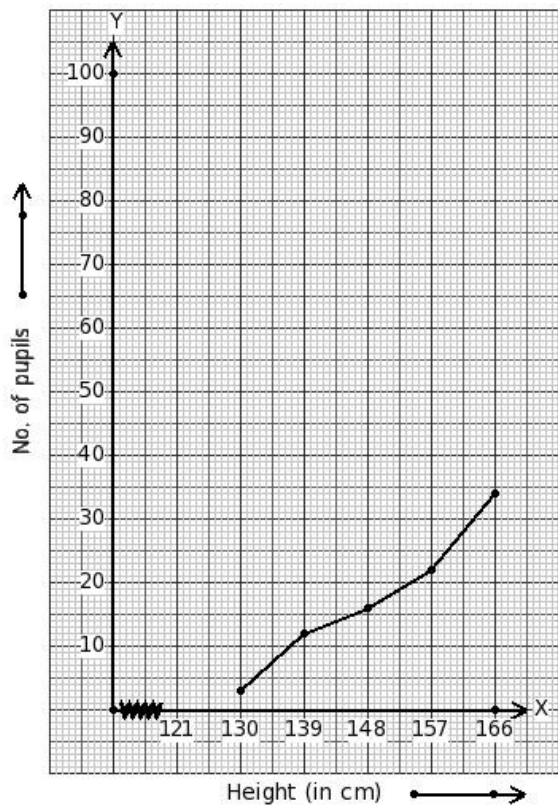
- (i)
- | Daily wage (in Rs) | 290 - 299 | 299 - 308 | 308 - 317 | 317 - 326 | 326 - 335 | 335 - 344 | 344 - 353 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 10 | 10 | 11 | 10 | 20 | 15 | 17 |
- (ii)
- | Daily wage (in Rs) | 290 - 299 | 299 - 308 | 308 - 317 | 317 - 326 | 326 - 335 | 335 - 344 | 344 - 353 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 10 | 17 | 7 | 10 | 20 | 15 | 10 |
- (iii)
- | Daily wage (in Rs) | 290 - 299 | 299 - 308 | 308 - 317 | 317 - 326 | 326 - 335 | 335 - 344 | 344 - 353 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 10 | 17 | 11 | 15 | 20 | 15 | 10 |
- (iv)
- | Daily wage (in Rs) | 290 - 299 | 299 - 308 | 308 - 317 | 317 - 326 | 326 - 335 | 335 - 344 | 344 - 353 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 10 | 11 | 17 | 10 | 20 | 15 | 10 |
- (v)
- | Daily wage (in Rs) | 290 - 299 | 299 - 308 | 308 - 317 | 317 - 326 | 326 - 335 | 335 - 344 | 344 - 353 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 10 | 17 | 11 | 10 | 20 | 15 | 10 |

21. Daily wages of 107 labourers (in ₹) are given below. Identify the frequency distribution table for the given 'less than' ogive.



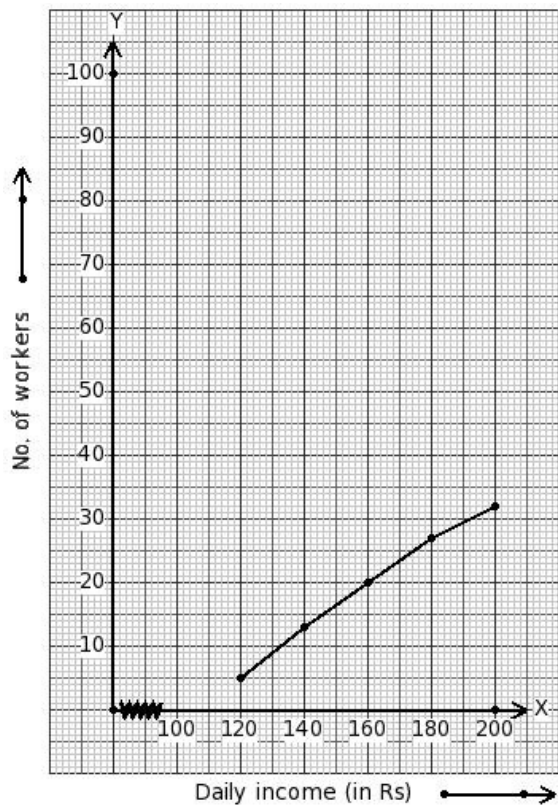
- (i)
- | Daily wage (in Rs) | 295 - 302 | 303 - 310 | 311 - 318 | 319 - 326 | 327 - 334 | 335 - 342 | 343 - 350 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 19 | 18 | 10 | 10 | 20 | 18 |
- (ii)
- | Daily wage (in Rs) | 295 - 302 | 303 - 310 | 311 - 318 | 319 - 326 | 327 - 334 | 335 - 342 | 343 - 350 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 19 | 22 | 10 | 10 | 20 | 18 |
- (iii)
- | Daily wage (in Rs) | 295 - 302 | 303 - 310 | 311 - 318 | 319 - 326 | 327 - 334 | 335 - 342 | 343 - 350 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 18 | 18 | 10 | 10 | 20 | 19 |
- (iv)
- | Daily wage (in Rs) | 295 - 302 | 303 - 310 | 311 - 318 | 319 - 326 | 327 - 334 | 335 - 342 | 343 - 350 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 18 | 19 | 10 | 10 | 20 | 18 |
- (v)
- | Daily wage (in Rs) | 295 - 302 | 303 - 310 | 311 - 318 | 319 - 326 | 327 - 334 | 335 - 342 | 343 - 350 |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| No. of labourers | 12 | 19 | 18 | 8 | 10 | 20 | 18 |

22. The heights of 34 pupils in a school are given below. Identify the frequency distribution table for the given less than ogive.



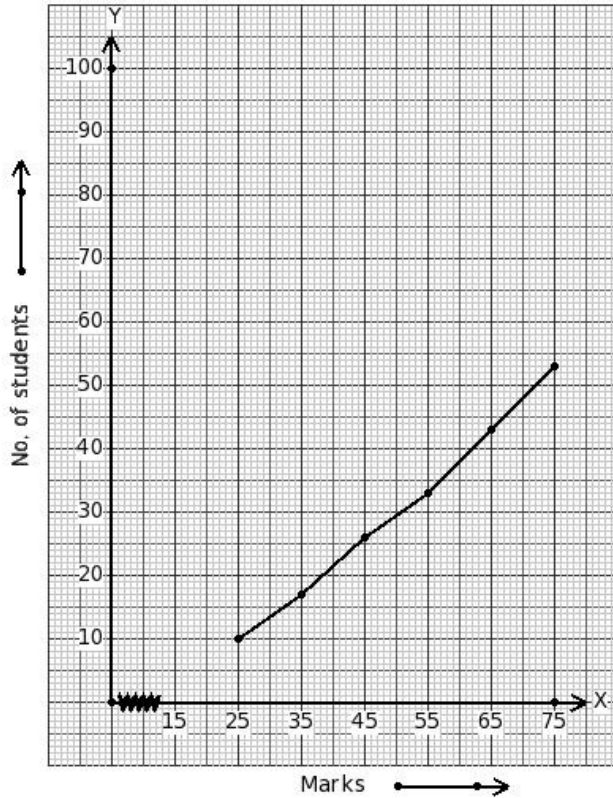
- (i)
- | | | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|
| Height (in cm) | less than 130 | less than 139 | less than 148 | less than 157 | less than 166 |
| No. of pupils | 3 | 12 | 20 | 26 | 38 |
- (ii)
- | | | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|
| Height (in cm) | less than 130 | less than 139 | less than 148 | less than 157 | less than 166 |
| No. of pupils | 3 | 15 | 19 | 25 | 34 |
- (iii)
- | | | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|
| Height (in cm) | less than 130 | less than 139 | less than 148 | less than 157 | less than 166 |
| No. of pupils | 3 | 12 | 16 | 22 | 34 |
- (iv)
- | | | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|
| Height (in cm) | less than 130 | less than 139 | less than 148 | less than 157 | less than 166 |
| No. of pupils | 3 | 10 | 14 | 20 | 32 |
- (v)
- | | | | | | |
|-----------------------|---------------|---------------|---------------|---------------|---------------|
| Height (in cm) | less than 130 | less than 139 | less than 148 | less than 157 | less than 166 |
| No. of pupils | 3 | 7 | 16 | 22 | 34 |

23. The daily income of 32 workers of a factory is given below. Identify the frequency distribution table for the given less than ogive.



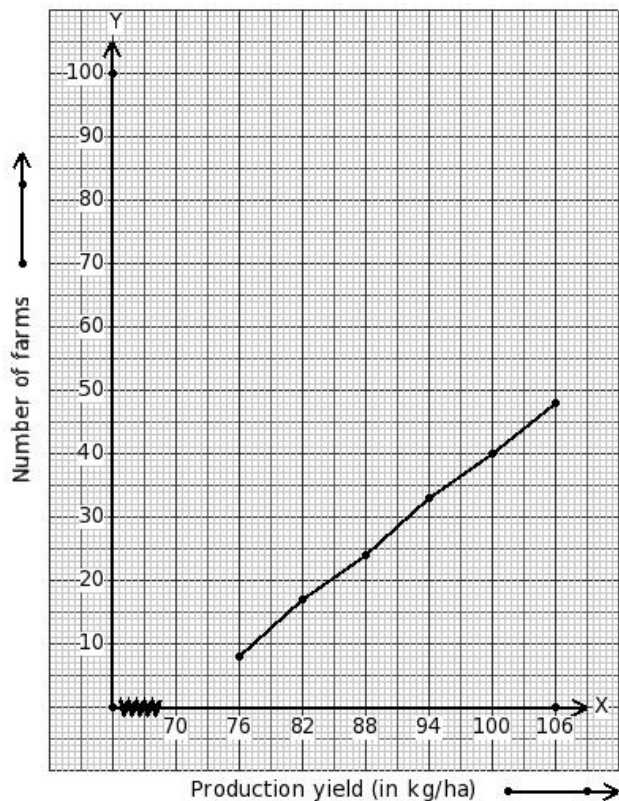
- (i)
- | | | | | | |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Daily income (in Rs) | less than 120 | less than 140 | less than 160 | less than 180 | less than 200 |
| No. of workers | 5 | 13 | 17 | 24 | 29 |
- (ii)
- | | | | | | |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Daily income (in Rs) | less than 120 | less than 140 | less than 160 | less than 180 | less than 200 |
| No. of workers | 5 | 10 | 17 | 24 | 32 |
- (iii)
- | | | | | | |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Daily income (in Rs) | less than 120 | less than 140 | less than 160 | less than 180 | less than 200 |
| No. of workers | 5 | 9 | 16 | 23 | 28 |
- (iv)
- | | | | | | |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Daily income (in Rs) | less than 120 | less than 140 | less than 160 | less than 180 | less than 200 |
| No. of workers | 5 | 12 | 20 | 27 | 32 |
- (v)
- | | | | | | |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Daily income (in Rs) | less than 120 | less than 140 | less than 160 | less than 180 | less than 200 |
| No. of workers | 5 | 13 | 20 | 27 | 32 |

24. The marks obtained by 53 students of a class in an examination is given below. Identify the frequency distribution table for the given less than ogive.



- (i)
- | Marks | less than 25 | less than 35 | less than 45 | less than 55 | less than 65 | less than 75 |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| No. of students | 10 | 20 | 29 | 36 | 46 | 53 |
- (ii)
- | Marks | less than 25 | less than 35 | less than 45 | less than 55 | less than 65 | less than 75 |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| No. of students | 10 | 17 | 28 | 35 | 45 | 55 |
- (iii)
- | Marks | less than 25 | less than 35 | less than 45 | less than 55 | less than 65 | less than 75 |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| No. of students | 10 | 19 | 26 | 33 | 43 | 53 |
- (iv)
- | Marks | less than 25 | less than 35 | less than 45 | less than 55 | less than 65 | less than 75 |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| No. of students | 10 | 17 | 26 | 30 | 40 | 50 |
- (v)
- | Marks | less than 25 | less than 35 | less than 45 | less than 55 | less than 65 | less than 75 |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| No. of students | 10 | 17 | 26 | 33 | 43 | 53 |

25. The production yield in kg per hectare of wheat of 48 farms of a village is given below. Identify the frequency distribution table for the given less than ogive.



| | | | | | | | |
|-------|------------------------------------|--------------|--------------|--------------|--------------|---------------|---------------|
| (i) | Production yield (in kg/ha) | less than 76 | less than 82 | less than 88 | less than 94 | less than 100 | less than 106 |
| | Number of farms | 8 | 15 | 24 | 33 | 40 | 48 |
| (ii) | Production yield (in kg/ha) | less than 76 | less than 82 | less than 88 | less than 94 | less than 100 | less than 106 |
| | Number of farms | 8 | 17 | 29 | 38 | 45 | 53 |
| (iii) | Production yield (in kg/ha) | less than 76 | less than 82 | less than 88 | less than 94 | less than 100 | less than 106 |
| | Number of farms | 8 | 17 | 24 | 33 | 40 | 48 |
| (iv) | Production yield (in kg/ha) | less than 76 | less than 82 | less than 88 | less than 94 | less than 100 | less than 106 |
| | Number of farms | 8 | 17 | 24 | 38 | 45 | 53 |
| (v) | Production yield (in kg/ha) | less than 76 | less than 82 | less than 88 | less than 94 | less than 100 | less than 106 |
| | Number of farms | 8 | 16 | 23 | 32 | 39 | 48 |

Assignment Key

| | | | | | |
|-----------|----------|-----------|-----------|----------|----------|
| 1) (i) | 2) (iii) | 3) (iii) | 4) (ii) | 5) (iii) | 6) (iv) |
| 7) (ii) | 8) (v) | 9) (ii) | 10) (i) | 11) (i) | 12) (ii) |
| 13) (i) | 14) (i) | 15) (iii) | 16) (ii) | 17) (ii) | 18) (iv) |
| 19) (v) | 20) (v) | 21) (i) | 22) (iii) | 23) (v) | 24) (v) |
| 25) (iii) | | | | | |