EduSahara™ Assignment

Name : Ogives

Chapter : Graphical Representation of Statistical Data

Grade : ICSE Grade X

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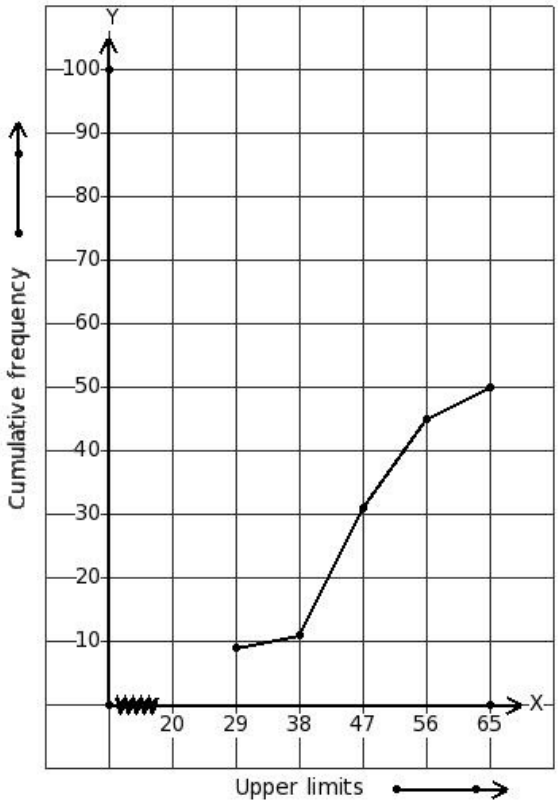
1. Identify the frequency distribution table for the given ogive.



(i)

Class-Interval	20 - 29	29 - 38	38 - 47	47 - 56	56 - 65
Frequency	1	8	15	10	7

(ii)

Class-Interval	20 - 29	29 - 38	38 - 47	47 - 56	56 - 65
Frequency	14	16	10	12	6

(iii)

Class-Interval	20 - 29	29 - 38	38 - 47	47 - 56	56 - 65
Frequency	15	5	7	17	14

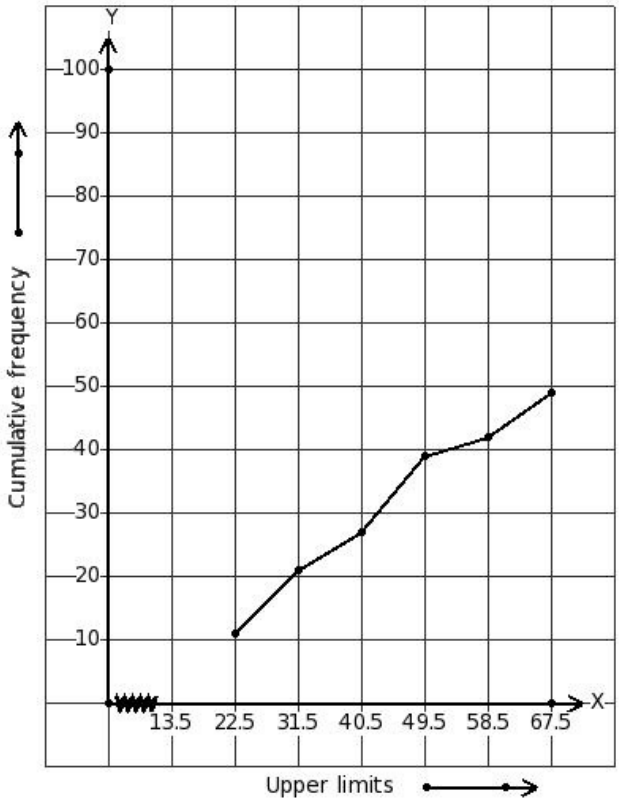
(iv)

Class-Interval	20 - 29	29 - 38	38 - 47	47 - 56	56 - 65
Frequency	2	17	9	16	5

(v)

Class-Interval	20 - 29	29 - 38	38 - 47	47 - 56	56 - 65
Frequency	9	2	20	14	5

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



(i)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	15	17	6	2	12	7

(ii)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	2	6	11	7	3	12

(iii)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	11	4	8	18	20	2

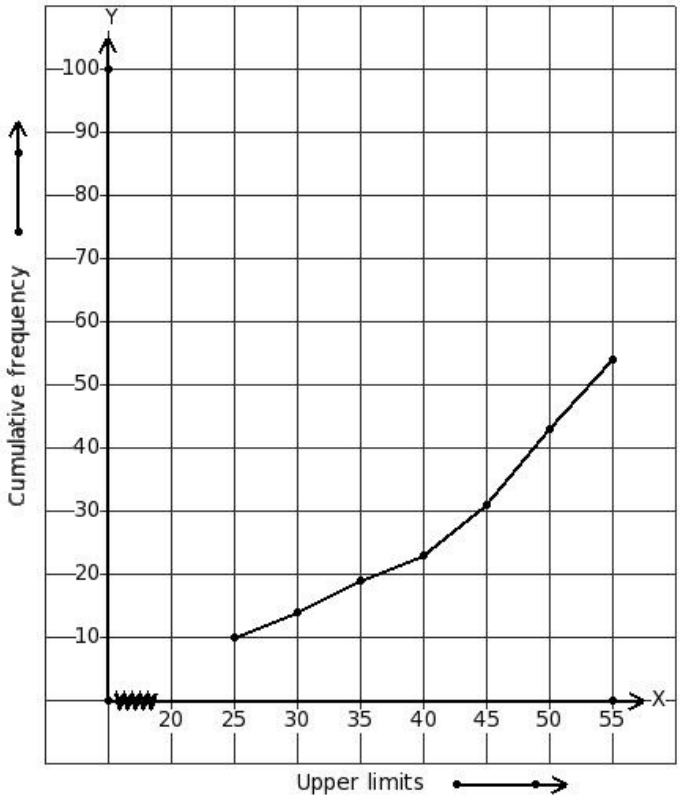
(iv)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	20	5	3	9	8	8

(v)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	11	10	6	12	3	7

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



(i)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
Frequency	10	4	5	4	8	12	11

(ii)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
Frequency	19	3	6	19	7	8	19

(iii)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
Frequency	8	11	6	18	10	8	1

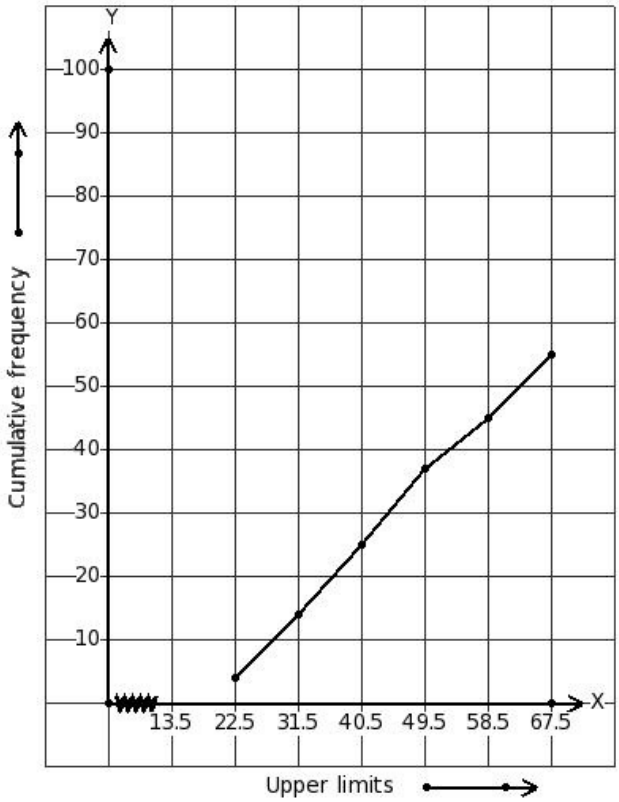
(iv)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
Frequency	6	7	1	1	14	10	1

(v)

Class-Interval	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
Frequency	13	11	3	10	14	17	4

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



(i)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	11	1	4	3	2	10

(ii)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	18	6	8	13	17	4

(iii)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	4	19	18	17	1	12

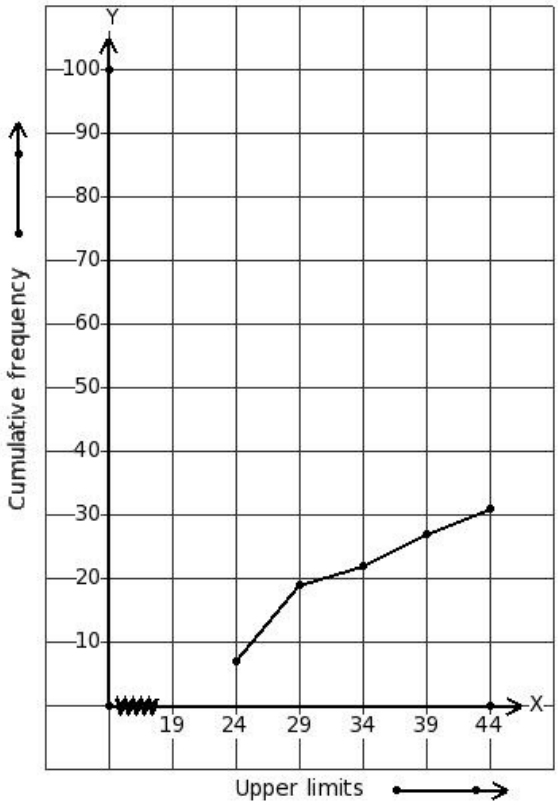
(iv)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	4	10	11	12	8	10

(v)

Class-Interval	14 - 22	23 - 31	32 - 40	41 - 49	50 - 58	59 - 67
Frequency	13	2	9	3	19	18

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



(i)

Class-Interval	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44
Frequency	7	7	7	1	18

(ii)

Class-Interval	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44
Frequency	1	18	15	14	19

(iii)

Class-Interval	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44
Frequency	8	4	2	13	12

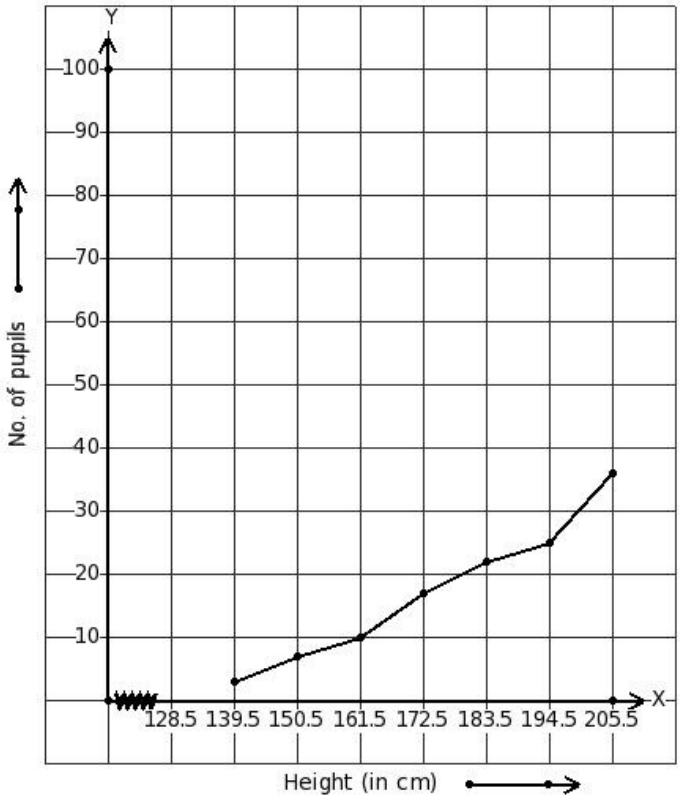
(iv)

Class-Interval	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44
Frequency	7	12	3	5	4

(v)

Class-Interval	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44
Frequency	4	5	8	13	13

6. The heights of 36 pupils in a school are given below. Identify the frequency distribution table for the given ' less than ' ogive.



(i)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183	184 - 194	195 - 205
No. of pupils	3	4	3	7	5	3	11

(ii)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183	184 - 194	195 - 205
No. of pupils	3	11	3	7	5	3	4

(iii)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183	184 - 194	195 - 205
No. of pupils	3	4	6	7	5	3	11

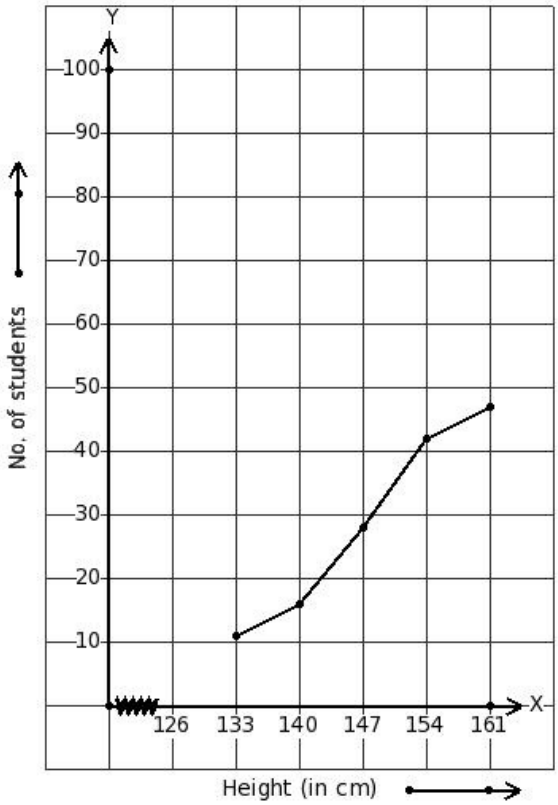
(iv)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183	184 - 194	195 - 205
No. of pupils	3	4	3	2	5	3	11

(v)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183	184 - 194	195 - 205
No. of pupils	3	3	4	7	5	3	11

7. Heights of 47 students (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	126 - 133	133 - 140	140 - 147	147 - 154	154 - 161
No. of students	11	5	16	14	5

(ii)

Height (in cm)	126 - 133	133 - 140	140 - 147	147 - 154	154 - 161
No. of students	11	7	12	14	5

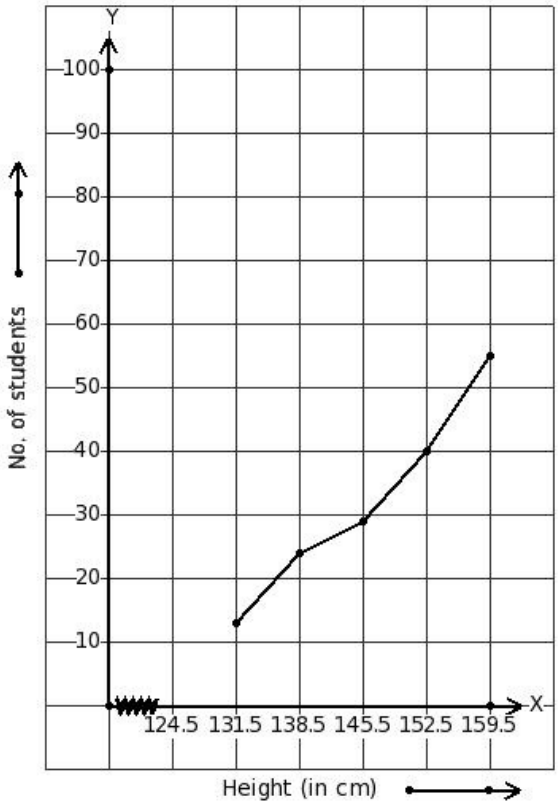
(iii)

Height (in cm)	126 - 133	133 - 140	140 - 147	147 - 154	154 - 161
No. of students	11	12	5	14	5

(iv)

Height (in cm)	126 - 133	133 - 140	140 - 147	147 - 154	154 - 161
No. of students	11	5	12	14	5

8. Heights of 55 students (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159
No. of students	13	15	5	11	11

(ii)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159
No. of students	13	5	11	11	15

(iii)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159
No. of students	13	11	1	11	15

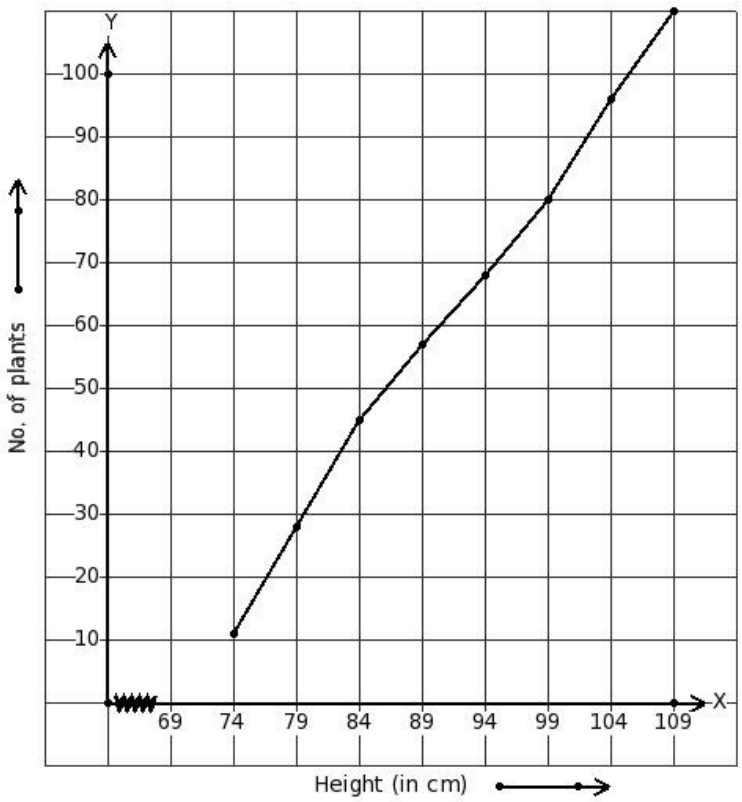
(iv)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159
No. of students	13	6	5	11	15

(v)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159
No. of students	13	11	5	11	15

9. Heights of 110 plants (in cm) are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Height (in cm)	69 - 74	74 - 79	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109
No. of plants	11	17	17	12	7	12	16	14

(ii)

Height (in cm)	69 - 74	74 - 79	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109
No. of plants	11	17	12	17	11	12	16	14

(iii)

Height (in cm)	69 - 74	74 - 79	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109
No. of plants	11	17	15	12	11	12	16	14

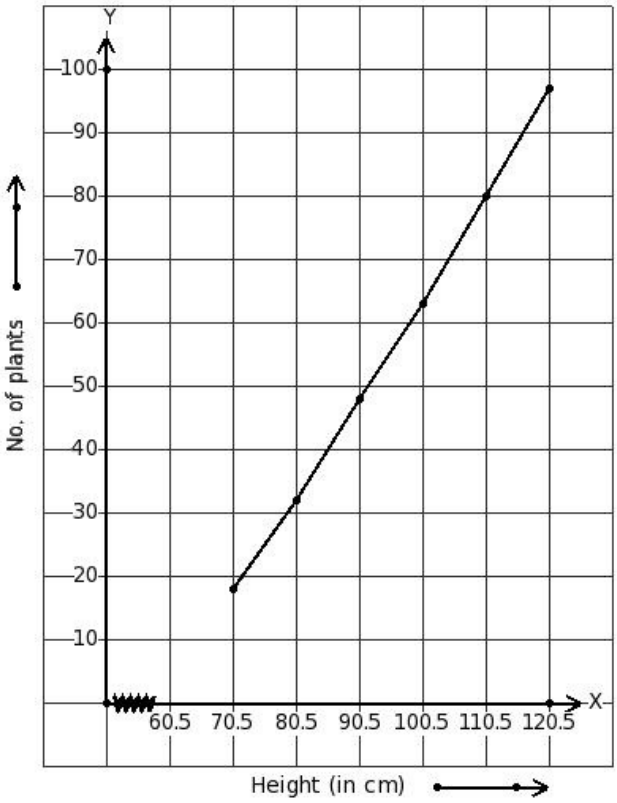
(iv)

Height (in cm)	69 - 74	74 - 79	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109
No. of plants	11	14	17	12	11	12	16	17

(v)

Height (in cm)	69 - 74	74 - 79	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109
No. of plants	11	17	17	12	11	12	16	14

10. Heights of 97 plants (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	61 - 70	71 - 80	81 - 90	91 - 100	101 - 110	111 - 120
No. of plants	18	17	16	15	17	14

(ii)

Height (in cm)	61 - 70	71 - 80	81 - 90	91 - 100	101 - 110	111 - 120
No. of plants	18	16	14	15	17	17

(iii)

Height (in cm)	61 - 70	71 - 80	81 - 90	91 - 100	101 - 110	111 - 120
No. of plants	18	14	16	19	17	17

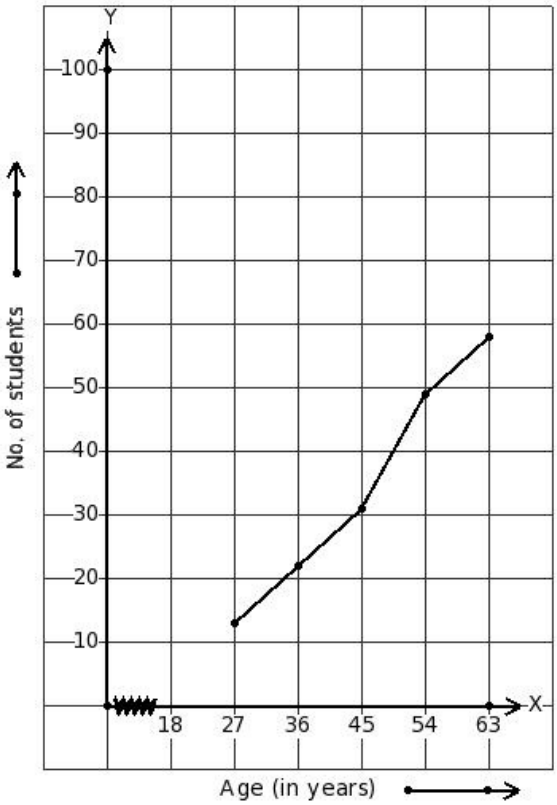
(iv)

Height (in cm)	61 - 70	71 - 80	81 - 90	91 - 100	101 - 110	111 - 120
No. of plants	18	14	19	15	17	17

(v)

Height (in cm)	61 - 70	71 - 80	81 - 90	91 - 100	101 - 110	111 - 120
No. of plants	18	14	16	15	17	17

11. Ages of 58 students (in years) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Age (in years)	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of students	13	9	9	18	9

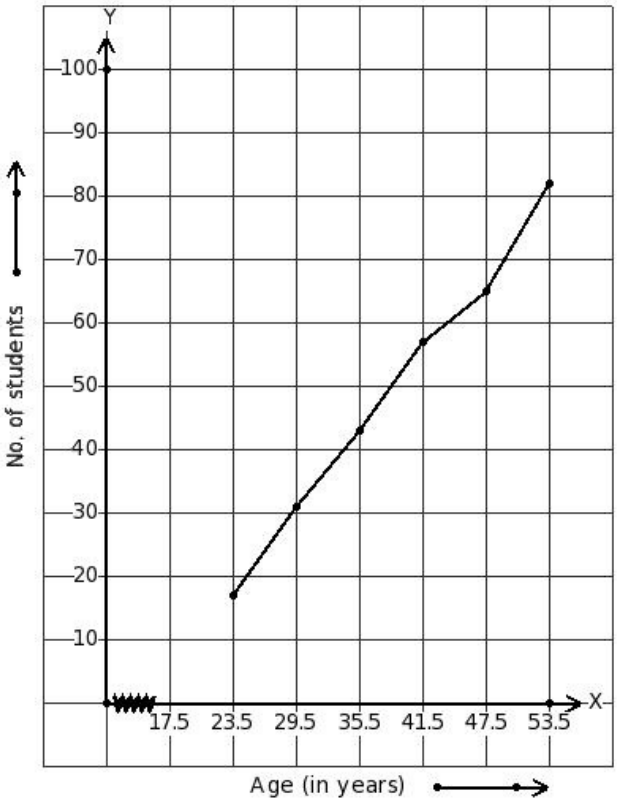
(ii)

Age (in years)	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of students	13	9	14	18	9

(iii)

Age (in years)	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of students	13	11	9	18	9

12. Ages of 82 students (in years) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Age (in years)	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47	48 - 53
No. of students	17	17	12	14	8	14

(ii)

Age (in years)	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47	48 - 53
No. of students	17	14	12	14	8	17

(iii)

Age (in years)	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47	48 - 53
No. of students	17	14	7	14	8	17

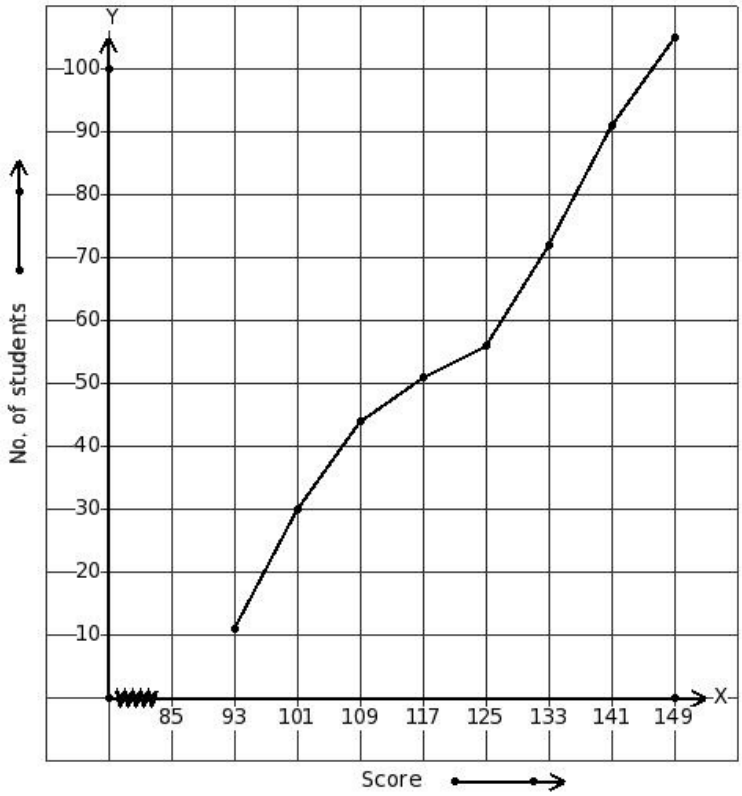
(iv)

Age (in years)	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47	48 - 53
No. of students	17	14	12	16	8	17

(v)

Age (in years)	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47	48 - 53
No. of students	17	12	14	14	8	17

13. Scores of 105 students are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Score	85 - 93	93 - 101	101 - 109	109 - 117	117 - 125	125 - 133	133 - 141	141 - 149
No. of students	11	19	14	7	5	16	19	14

(ii)

Score	85 - 93	93 - 101	101 - 109	109 - 117	117 - 125	125 - 133	133 - 141	141 - 149
No. of students	11	19	14	7	9	16	19	14

(iii)

Score	85 - 93	93 - 101	101 - 109	109 - 117	117 - 125	125 - 133	133 - 141	141 - 149
No. of students	11	19	17	7	5	16	19	14

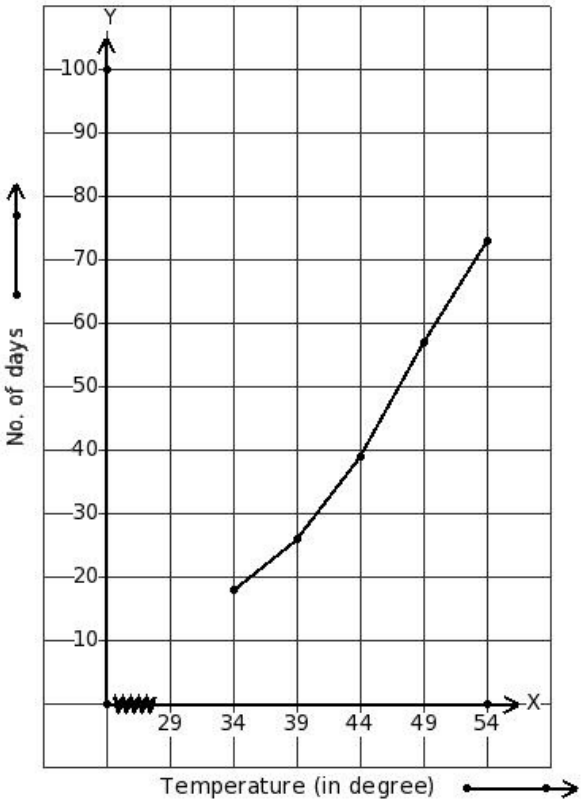
(iv)

Score	85 - 93	93 - 101	101 - 109	109 - 117	117 - 125	125 - 133	133 - 141	141 - 149
No. of students	11	19	7	14	5	16	19	14

(v)

Score	85 - 93	93 - 101	101 - 109	109 - 117	117 - 125	125 - 133	133 - 141	141 - 149
No. of students	11	14	14	7	5	16	19	19

14. Temperatures of 73 days (in °C) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Temperature (in degree)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	18	13	8	18	16

(ii)

Temperature (in degree)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	18	8	9	18	16

(iii)

Temperature (in degree)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	18	16	13	18	8

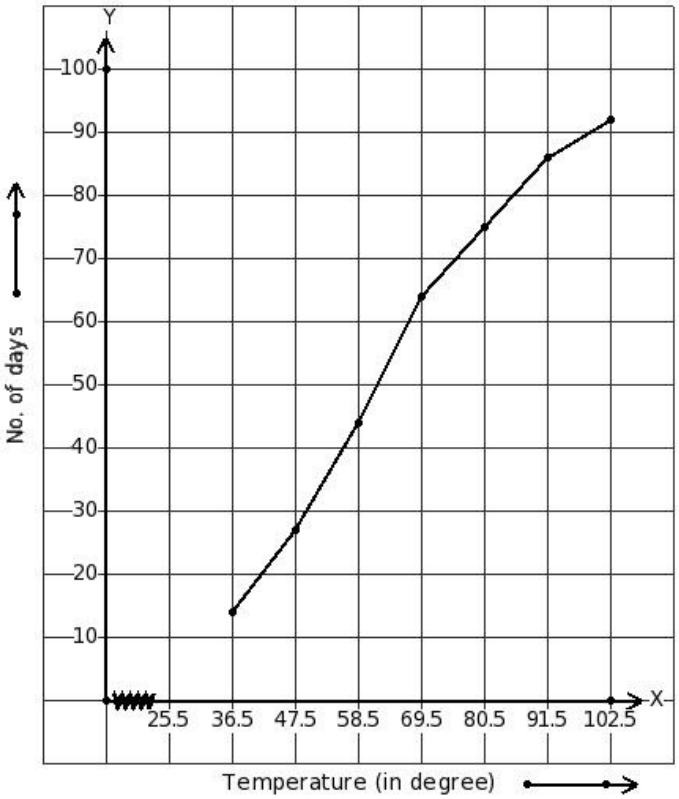
(iv)

Temperature (in degree)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	18	8	13	18	16

(v)

Temperature (in degree)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	18	6	13	18	16

15. Temperatures of 92 days (in °C) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Temperature (in degree)	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
No. of days	14	17	13	20	11	11	6

(ii)

Temperature (in degree)	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
No. of days	14	13	17	20	11	11	6

(iii)

Temperature (in degree)	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
No. of days	14	13	17	16	11	11	6

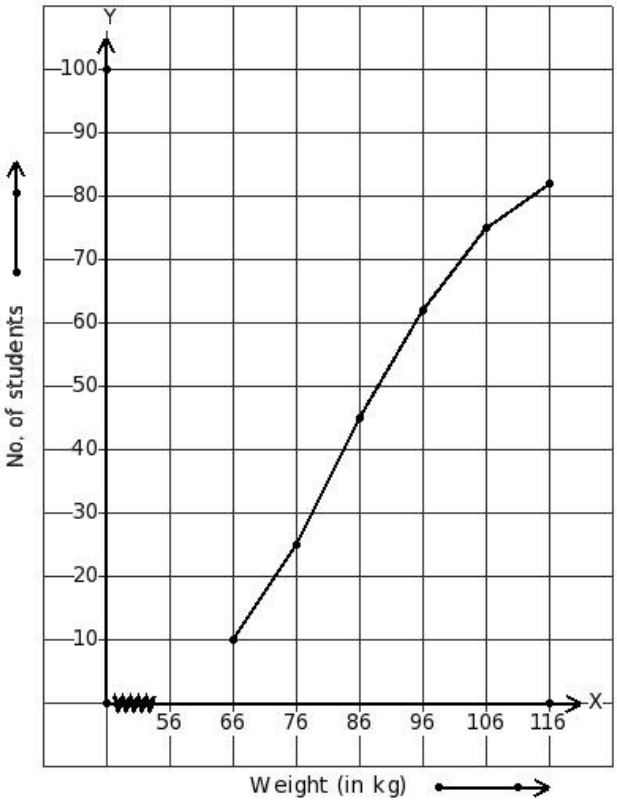
(iv)

Temperature (in degree)	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
No. of days	14	13	21	20	11	11	6

(v)

Temperature (in degree)	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
No. of days	14	6	17	20	11	11	13

16. Weights of 82 students (in kg) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Weight (in kg)	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of students	10	15	20	13	13	7

(ii)

Weight (in kg)	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of students	10	15	15	17	13	7

(iii)

Weight (in kg)	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of students	10	7	20	17	13	15

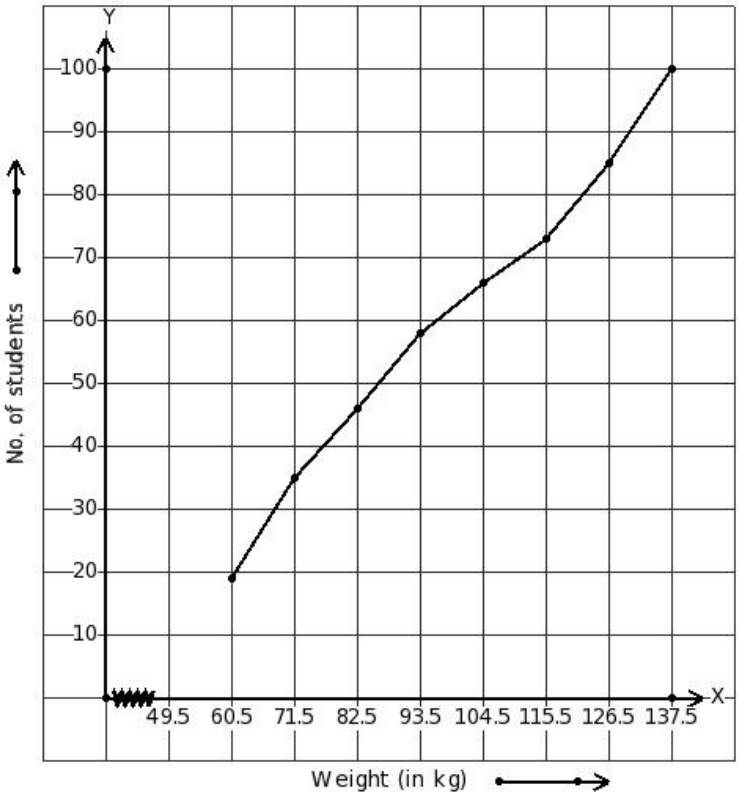
(iv)

Weight (in kg)	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of students	10	20	15	17	13	7

(v)

Weight (in kg)	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of students	10	15	20	17	13	7

17. Weights of 100 students (in kg) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Weight (in kg)	50 - 60	61 - 71	72 - 82	83 - 93	94 - 104	105 - 115	116 - 126	127 - 137
No. of students	19	16	11	12	3	7	12	15

(ii)

Weight (in kg)	50 - 60	61 - 71	72 - 82	83 - 93	94 - 104	105 - 115	116 - 126	127 - 137
No. of students	19	15	11	12	8	7	12	16

(iii)

Weight (in kg)	50 - 60	61 - 71	72 - 82	83 - 93	94 - 104	105 - 115	116 - 126	127 - 137
No. of students	19	16	11	12	8	7	12	15

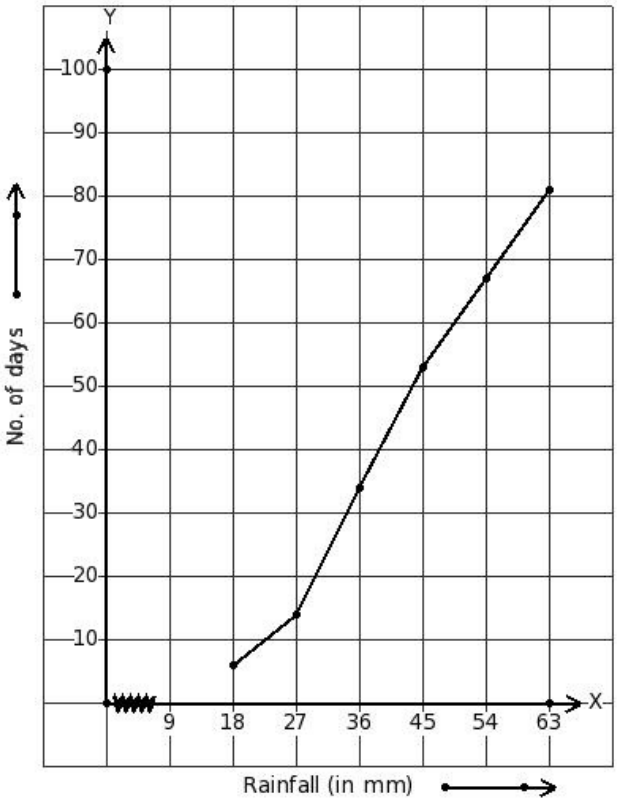
(iv)

Weight (in kg)	50 - 60	61 - 71	72 - 82	83 - 93	94 - 104	105 - 115	116 - 126	127 - 137
No. of students	19	16	12	11	8	7	12	15

(v)

Weight (in kg)	50 - 60	61 - 71	72 - 82	83 - 93	94 - 104	105 - 115	116 - 126	127 - 137
No. of students	19	16	6	12	8	7	12	15

18. Rainfall of 81 days (in mm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Rainfall (in mm)	9 - 18	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of days	6	8	25	19	14	14

(ii)

Rainfall (in mm)	9 - 18	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of days	6	8	20	19	14	14

(iii)

Rainfall (in mm)	9 - 18	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of days	6	8	20	24	14	14

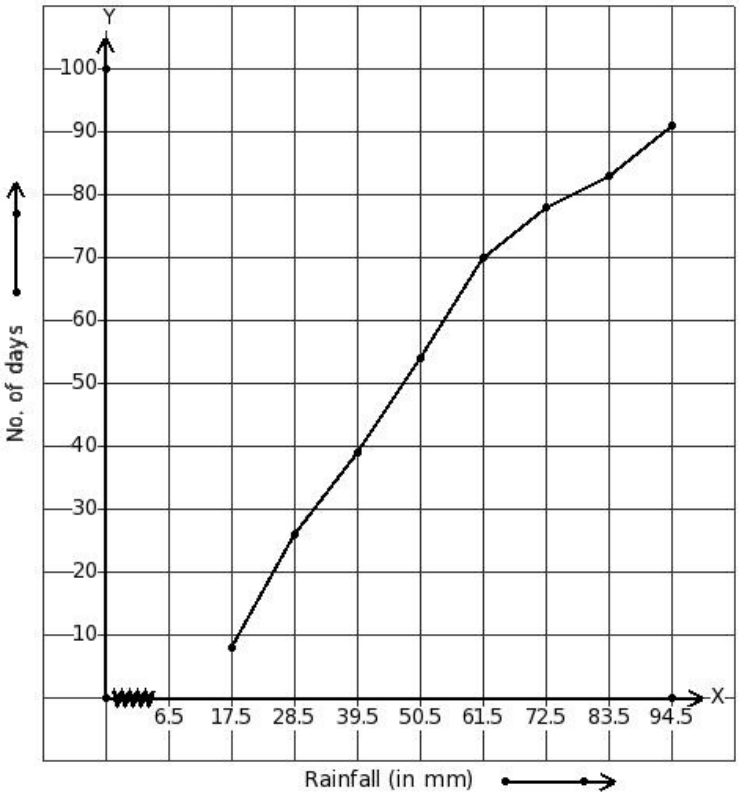
(iv)

Rainfall (in mm)	9 - 18	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of days	6	14	20	19	14	8

(v)

Rainfall (in mm)	9 - 18	18 - 27	27 - 36	36 - 45	45 - 54	54 - 63
No. of days	6	20	8	19	14	14

19. Rainfall of 91 days (in mm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Rainfall (in mm)	7 - 17	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of days	8	18	9	15	16	8	5	8

(ii)

Rainfall (in mm)	7 - 17	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of days	8	8	13	15	16	8	5	18

(iii)

Rainfall (in mm)	7 - 17	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of days	8	18	13	15	16	8	5	8

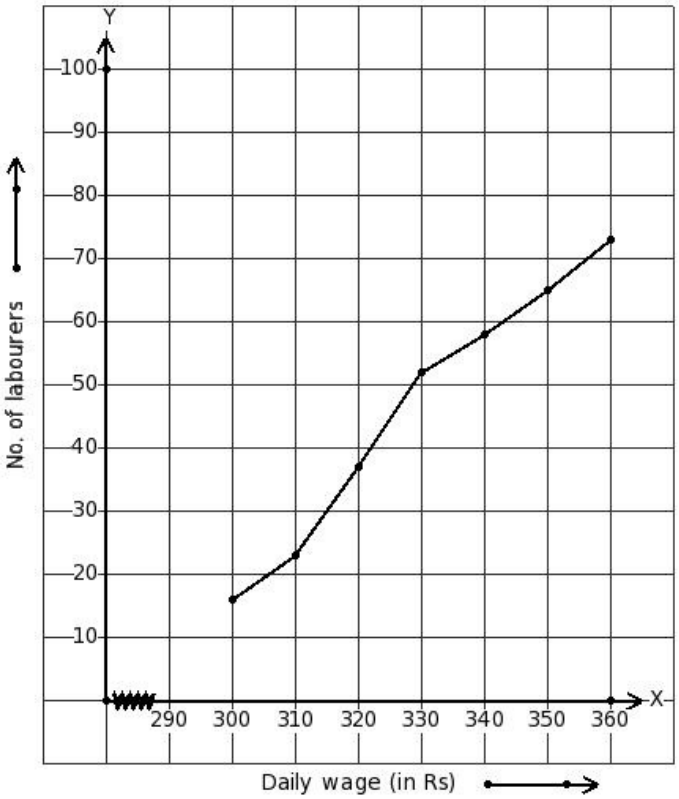
(iv)

Rainfall (in mm)	7 - 17	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of days	8	18	13	15	20	8	5	8

(v)

Rainfall (in mm)	7 - 17	18 - 28	29 - 39	40 - 50	51 - 61	62 - 72	73 - 83	84 - 94
No. of days	8	18	15	13	16	8	5	8

20. Daily wages of 73 labourers (in ₹) are given below. Identify the frequency distribution table for the given ' less than ' ogive.



(i)

Daily wage (in Rs)	290 - 300	300 - 310	310 - 320	320 - 330	330 - 340	340 - 350	350 - 360
No. of labourers	16	7	14	15	6	7	8

(ii)

Daily wage (in Rs)	290 - 300	300 - 310	310 - 320	320 - 330	330 - 340	340 - 350	350 - 360
No. of labourers	16	7	16	15	6	7	8

(iii)

Daily wage (in Rs)	290 - 300	300 - 310	310 - 320	320 - 330	330 - 340	340 - 350	350 - 360
No. of labourers	16	14	7	15	6	7	8

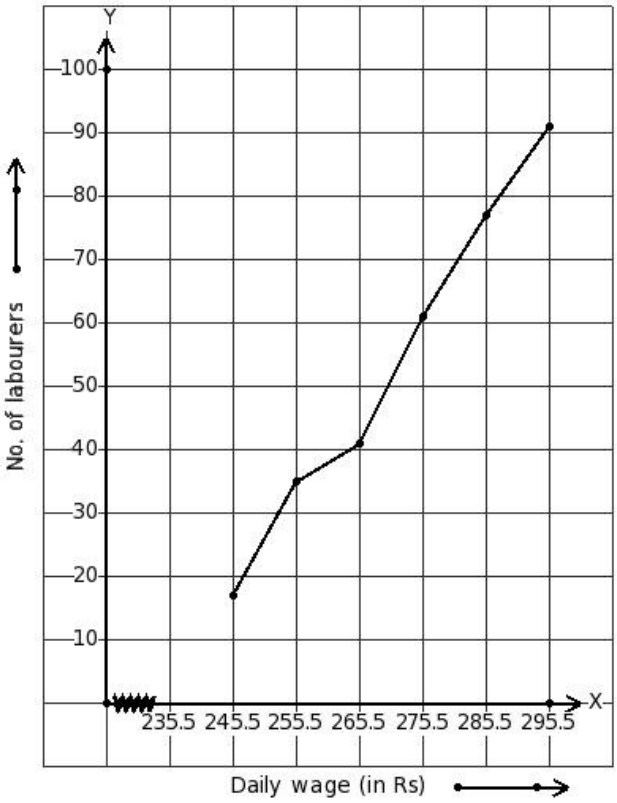
(iv)

Daily wage (in Rs)	290 - 300	300 - 310	310 - 320	320 - 330	330 - 340	340 - 350	350 - 360
No. of labourers	16	8	14	15	6	7	7

(v)

Daily wage (in Rs)	290 - 300	300 - 310	310 - 320	320 - 330	330 - 340	340 - 350	350 - 360
No. of labourers	16	7	14	11	6	7	8

21. Daily wages of 91 labourers (in ₹) are given below. Identify the frequency distribution table for the given ' less than ' ogive.



(i)

Daily wage (in Rs)	236 - 245	246 - 255	256 - 265	266 - 275	276 - 285	286 - 295
No. of labourers	17	18	6	18	16	14

(ii)

Daily wage (in Rs)	236 - 245	246 - 255	256 - 265	266 - 275	276 - 285	286 - 295
No. of labourers	17	6	18	20	16	14

(iii)

Daily wage (in Rs)	236 - 245	246 - 255	256 - 265	266 - 275	276 - 285	286 - 295
No. of labourers	17	14	6	20	16	18

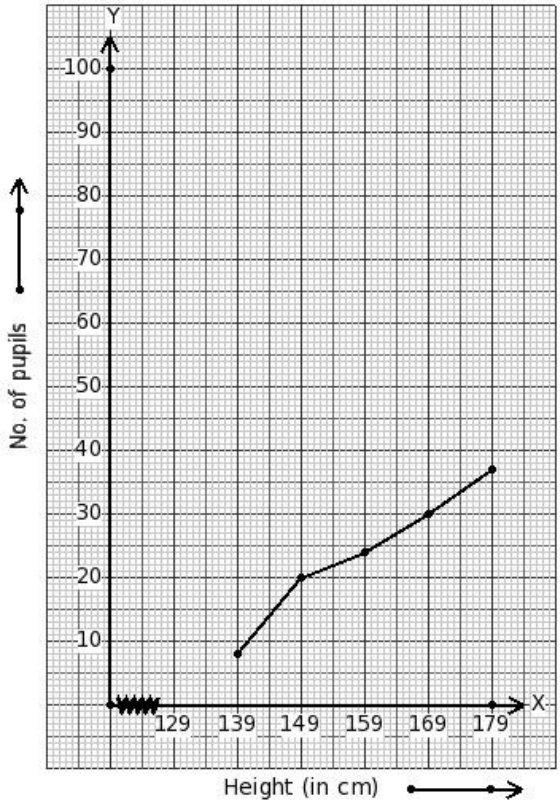
(iv)

Daily wage (in Rs)	236 - 245	246 - 255	256 - 265	266 - 275	276 - 285	286 - 295
No. of labourers	17	18	2	20	16	14

(v)

Daily wage (in Rs)	236 - 245	246 - 255	256 - 265	266 - 275	276 - 285	286 - 295
No. of labourers	17	18	6	20	16	14

22. The heights of 37 pupils in a school are given below. Identify the frequency distribution table for the given less than ogive.



(i)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179
No. of pupils	8	20	28	34	41

(ii)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179
No. of pupils	8	20	24	30	37

(iii)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179
No. of pupils	8	15	19	25	32

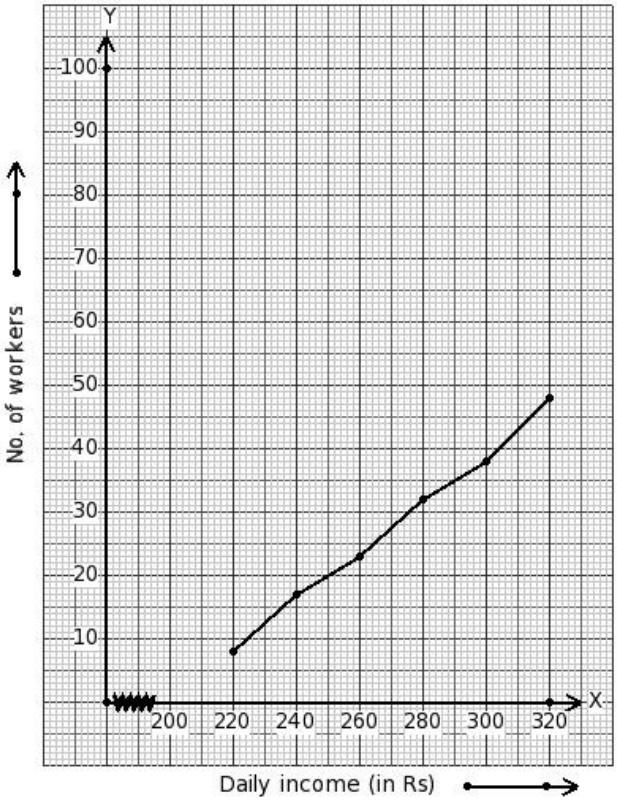
(iv)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179
No. of pupils	8	15	19	25	37

(v)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179
No. of pupils	8	12	24	30	37

23. The daily income of 48 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 220	less than 240	less than 260	less than 280	less than 300	less than 320
No. of workers	8	14	23	32	38	48

(ii)

Daily income (in Rs)	less than 220	less than 240	less than 260	less than 280	less than 300	less than 320
No. of workers	8	17	23	32	38	48

(iii)

Daily income (in Rs)	less than 220	less than 240	less than 260	less than 280	less than 300	less than 320
No. of workers	8	18	24	33	39	48

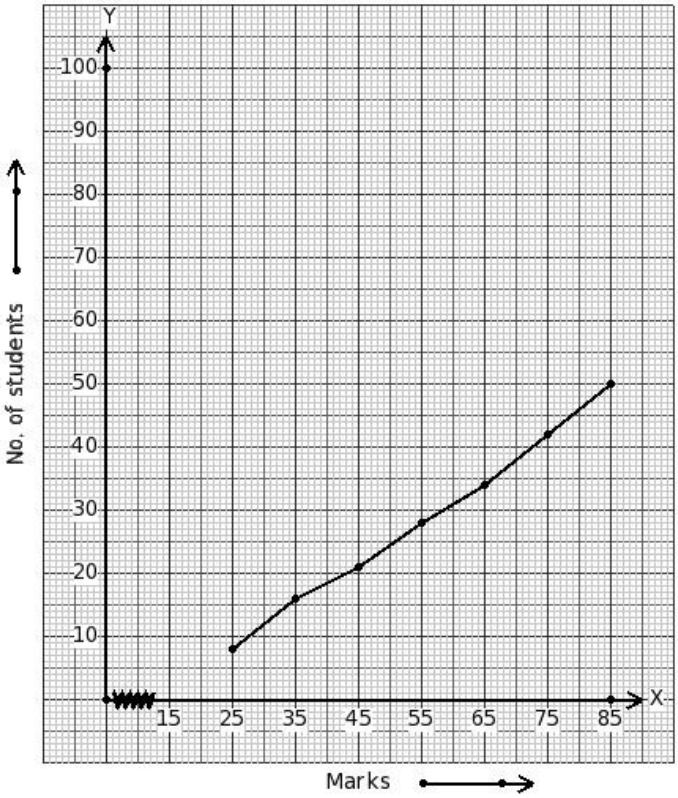
(iv)

Daily income (in Rs)	less than 220	less than 240	less than 260	less than 280	less than 300	less than 320
No. of workers	8	17	23	27	33	43

(v)

Daily income (in Rs)	less than 220	less than 240	less than 260	less than 280	less than 300	less than 320
No. of workers	8	17	20	29	35	45

24. The marks obtained by 50 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	less than 85
No. of students	8	13	21	28	34	42	50

(ii)

Marks	less than 25	less than 35	less than 45	less than 55	less than 65	less than 75	less than 85
No. of students	8	16	21	28	34	42	50

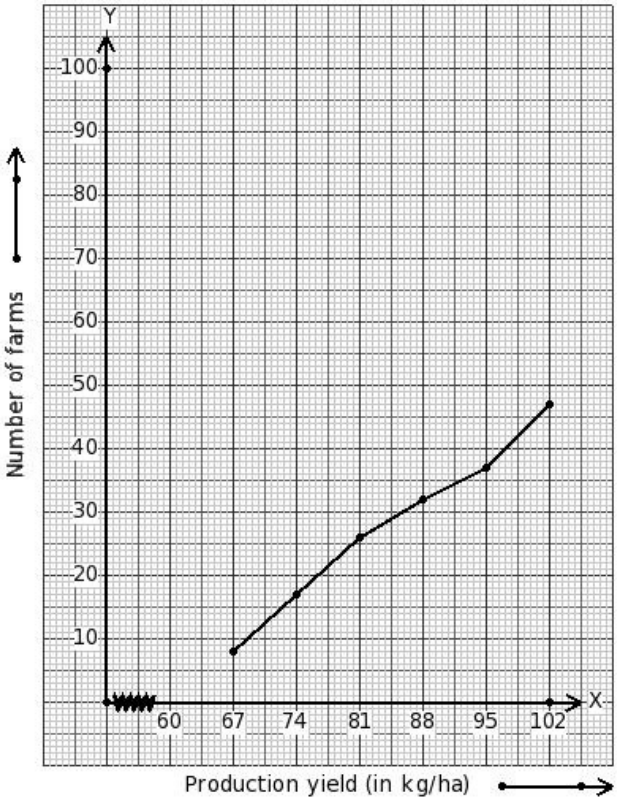
(iii)

Marks	less than 25	less than 35	less than 45	less than 55	less than 65	less than 75	less than 85
No. of students	8	16	18	25	31	39	47

(iv)

Marks	less than 25	less than 35	less than 45	less than 55	less than 65	less than 75	less than 85
No. of students	8	16	21	33	39	47	55

25. The production yield in kg per hectare of wheat of 47 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 67	less than 74	less than 81	less than 88	less than 95	less than 102
Number of farms	8	17	26	32	37	47

(ii)

Production yield (in kg/ha)	less than 67	less than 74	less than 81	less than 88	less than 95	less than 102
Number of farms	8	18	27	33	38	47

(iii)

Production yield (in kg/ha)	less than 67	less than 74	less than 81	less than 88	less than 95	less than 102
Number of farms	8	17	26	29	34	44

(iv)

Production yield (in kg/ha)	less than 67	less than 74	less than 81	less than 88	less than 95	less than 102
Number of farms	8	17	29	35	40	50

Assignment Key

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

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