EduSahara™ Assignment

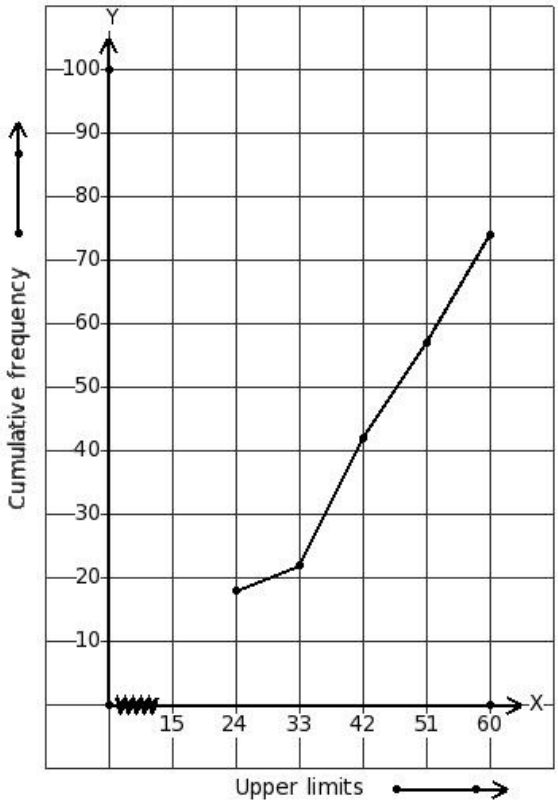
Name : Ogives

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	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
Frequency	10	14	10	20	13

(ii)

Class-Interval	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
Frequency	13	1	5	9	12

(iii)

Class-Interval	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
Frequency	18	4	20	15	17

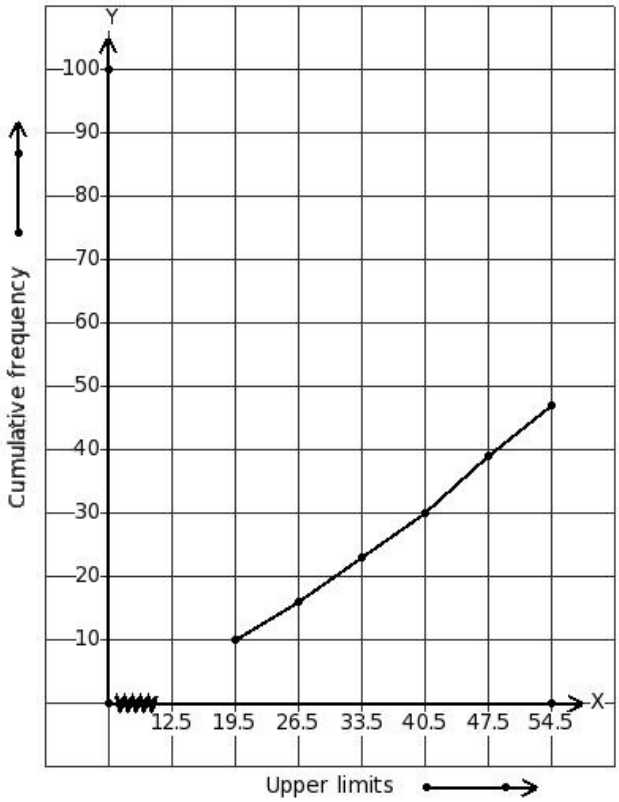
(iv)

Class-Interval	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
Frequency	1	19	19	6	14

(v)

Class-Interval	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
Frequency	7	15	6	15	19

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



(i)

Class-Interval	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
Frequency	19	14	2	19	5	20

(ii)

Class-Interval	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
Frequency	11	15	15	4	4	15

(iii)

Class-Interval	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
Frequency	9	17	5	7	2	18

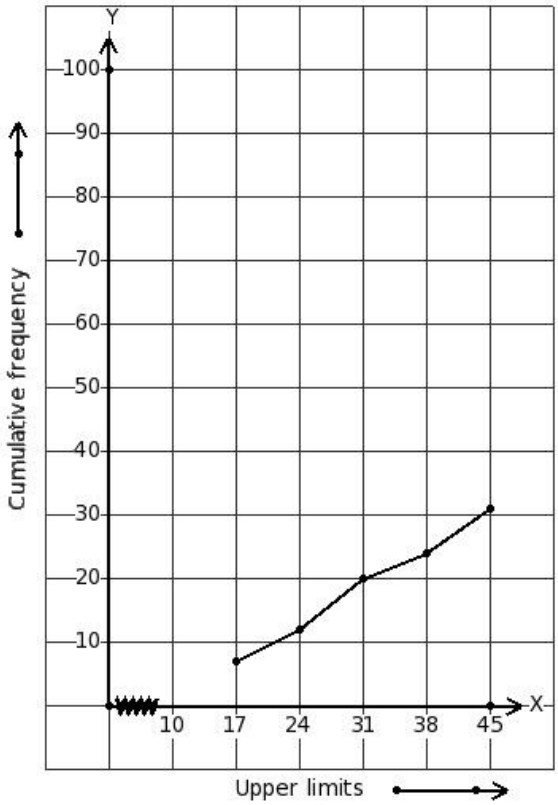
(iv)

Class-Interval	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
Frequency	5	11	14	3	12	14

(v)

Class-Interval	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
Frequency	10	6	7	7	9	8

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



(i)

Class-Interval	10 - 17	17 - 24	24 - 31	31 - 38	38 - 45
Frequency	6	4	8	19	2

(ii)

Class-Interval	10 - 17	17 - 24	24 - 31	31 - 38	38 - 45
Frequency	8	2	9	14	15

(iii)

Class-Interval	10 - 17	17 - 24	24 - 31	31 - 38	38 - 45
Frequency	13	18	6	15	11

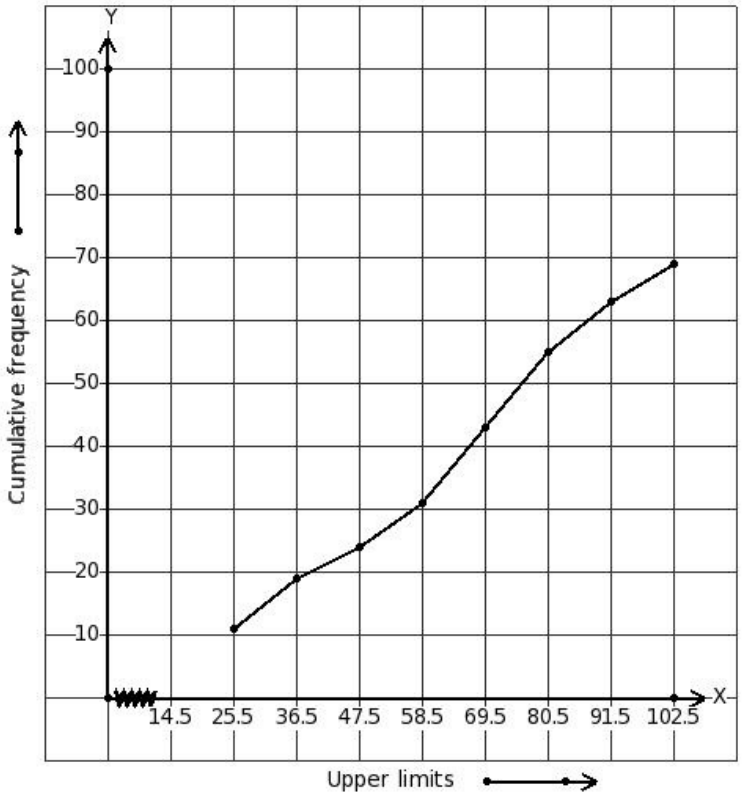
(iv)

Class-Interval	10 - 17	17 - 24	24 - 31	31 - 38	38 - 45
Frequency	10	19	8	6	5

(v)

Class-Interval	10 - 17	17 - 24	24 - 31	31 - 38	38 - 45
Frequency	7	5	8	4	7

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



(i)

Class-Interval	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
Frequency	6	13	13	10	1	11	11	5

(ii)

Class-Interval	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
Frequency	1	4	13	6	8	13	19	8

(iii)

Class-Interval	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
Frequency	11	8	5	7	12	12	8	6

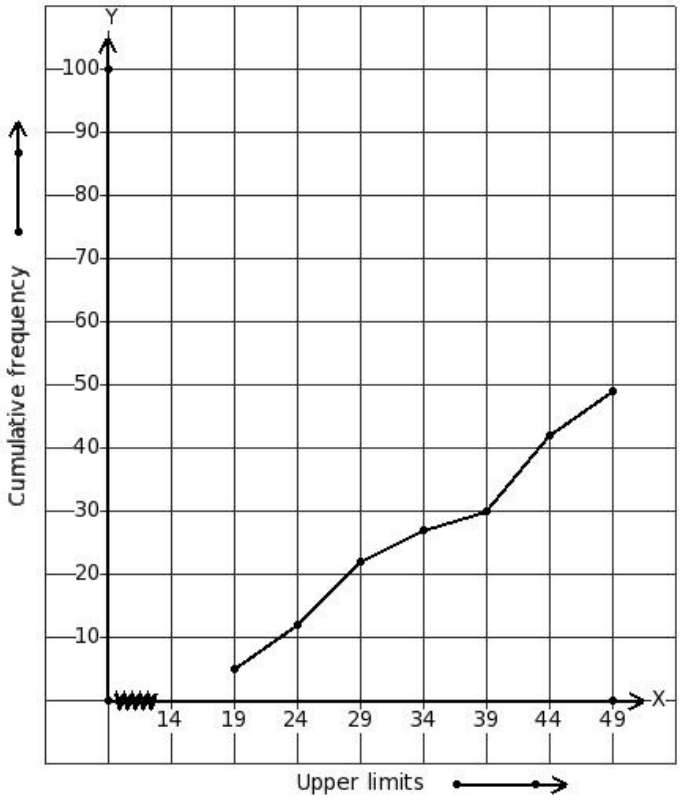
(iv)

Class-Interval	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
Frequency	20	9	19	11	17	16	18	17

(v)

Class-Interval	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80	81 - 91	92 - 102
Frequency	3	2	3	4	1	8	9	2

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



(i)

Class-Interval	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
Frequency	3	1	10	17	5	7	19

(ii)

Class-Interval	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
Frequency	10	8	8	11	8	8	4

(iii)

Class-Interval	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
Frequency	4	11	10	11	9	6	5

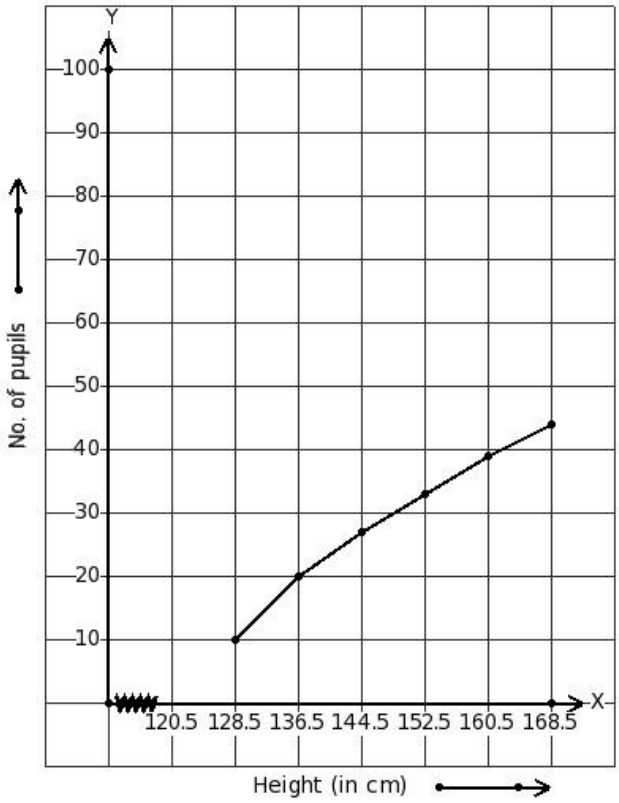
(iv)

Class-Interval	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
Frequency	12	10	18	14	14	9	2

(v)

Class-Interval	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49
Frequency	5	7	10	5	3	12	7

6. The heights of 44 pupils in a school are given below. Identify the frequency distribution table for the given ' less than ' ogive.



(i)

Height (in cm)	121 - 128	129 - 136	137 - 144	145 - 152	153 - 160	161 - 168
No. of pupils	10	5	7	6	6	10

(ii)

Height (in cm)	121 - 128	129 - 136	137 - 144	145 - 152	153 - 160	161 - 168
No. of pupils	10	10	7	6	6	5

(iii)

Height (in cm)	121 - 128	129 - 136	137 - 144	145 - 152	153 - 160	161 - 168
No. of pupils	10	10	7	4	6	5

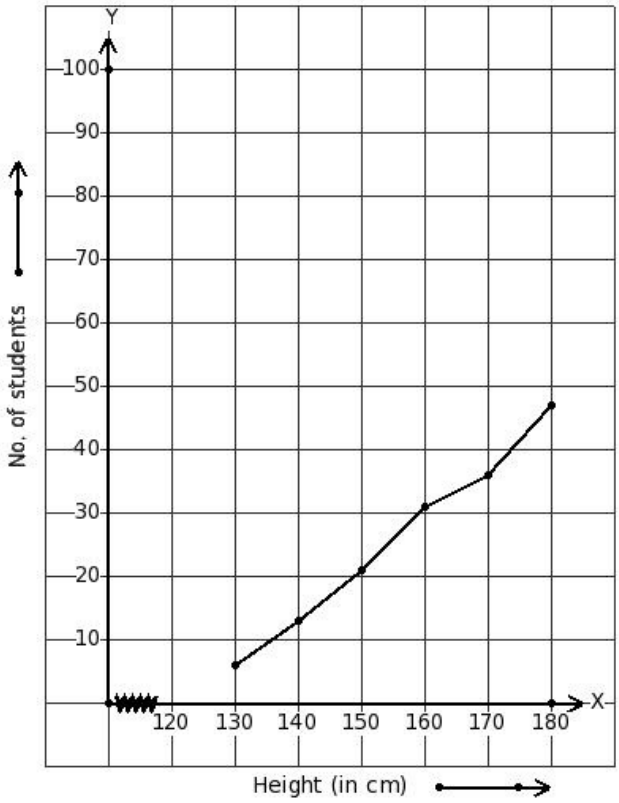
(iv)

Height (in cm)	121 - 128	129 - 136	137 - 144	145 - 152	153 - 160	161 - 168
No. of pupils	10	10	12	6	6	5

(v)

Height (in cm)	121 - 128	129 - 136	137 - 144	145 - 152	153 - 160	161 - 168
No. of pupils	10	7	10	6	6	5

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)	120 - 130	130 - 140	140 - 150	150 - 160	160 - 170	170 - 180
No. of students	6	7	13	10	5	11

(ii)

Height (in cm)	120 - 130	130 - 140	140 - 150	150 - 160	160 - 170	170 - 180
No. of students	6	7	8	10	5	11

(iii)

Height (in cm)	120 - 130	130 - 140	140 - 150	150 - 160	160 - 170	170 - 180
No. of students	6	8	7	10	5	11

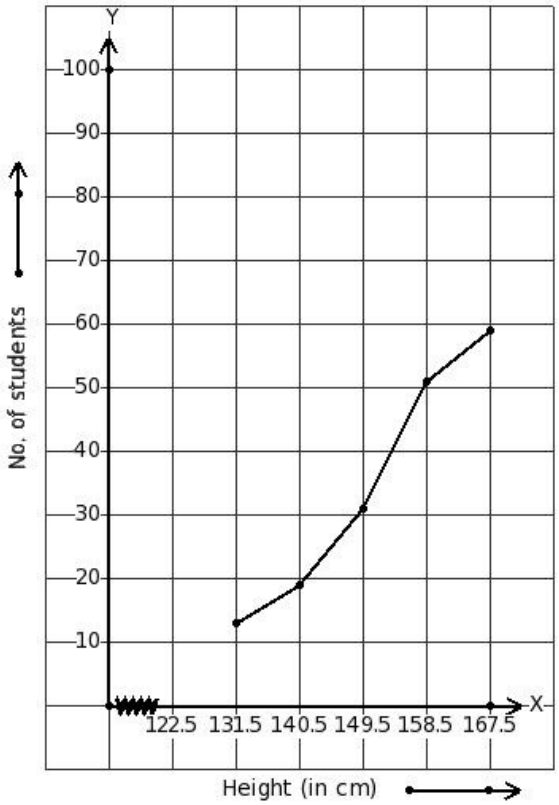
(iv)

Height (in cm)	120 - 130	130 - 140	140 - 150	150 - 160	160 - 170	170 - 180
No. of students	6	7	8	14	5	11

(v)

Height (in cm)	120 - 130	130 - 140	140 - 150	150 - 160	160 - 170	170 - 180
No. of students	6	11	8	10	5	7

8. Heights of 59 students (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	123 - 131	132 - 140	141 - 149	150 - 158	159 - 167
No. of students	13	6	16	20	8

(ii)

Height (in cm)	123 - 131	132 - 140	141 - 149	150 - 158	159 - 167
No. of students	13	8	12	20	6

(iii)

Height (in cm)	123 - 131	132 - 140	141 - 149	150 - 158	159 - 167
No. of students	13	12	6	20	8

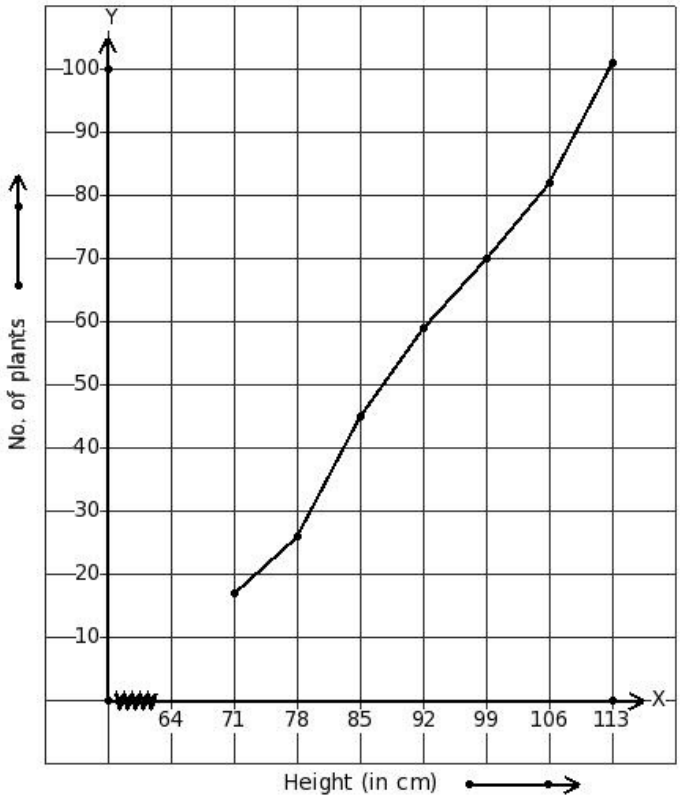
(iv)

Height (in cm)	123 - 131	132 - 140	141 - 149	150 - 158	159 - 167
No. of students	13	6	12	20	8

(v)

Height (in cm)	123 - 131	132 - 140	141 - 149	150 - 158	159 - 167
No. of students	13	4	12	20	8

9. Heights of 101 plants (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106	106 - 113
No. of plants	17	9	22	14	11	12	19

(ii)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106	106 - 113
No. of plants	17	9	19	17	11	12	19

(iii)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106	106 - 113
No. of plants	17	19	9	14	11	12	19

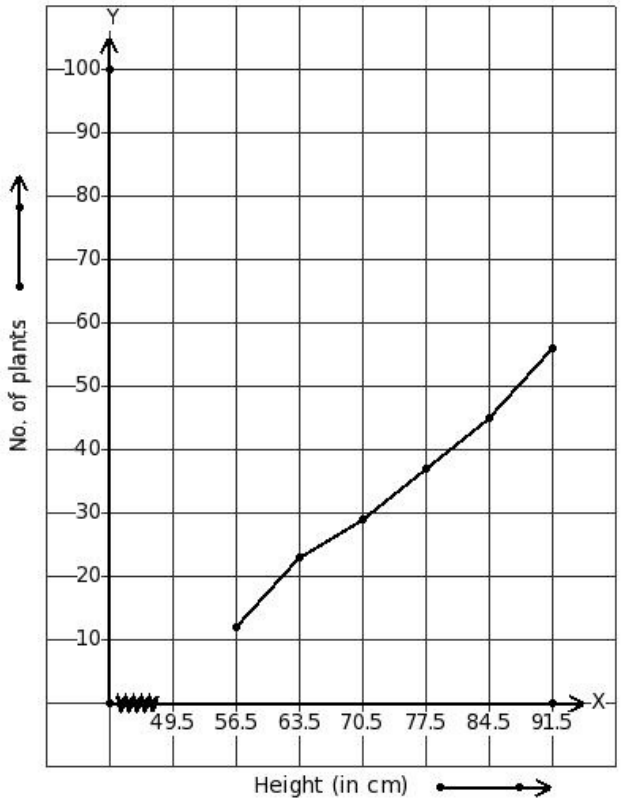
(iv)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106	106 - 113
No. of plants	17	19	19	14	11	12	9

(v)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106	106 - 113
No. of plants	17	9	19	14	11	12	19

10. Heights of 56 plants (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	50 - 56	57 - 63	64 - 70	71 - 77	78 - 84	85 - 91
No. of plants	12	11	6	11	8	11

(ii)

Height (in cm)	50 - 56	57 - 63	64 - 70	71 - 77	78 - 84	85 - 91
No. of plants	12	11	2	8	8	11

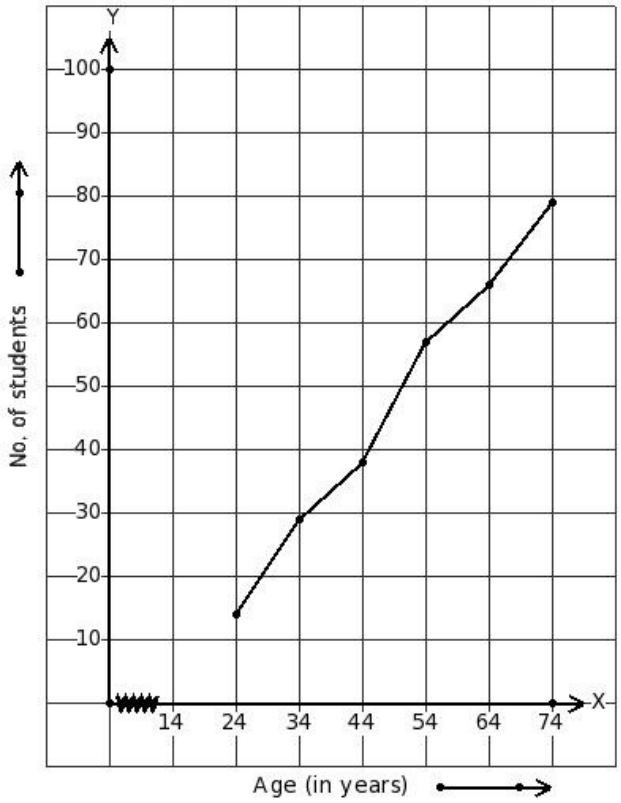
(iii)

Height (in cm)	50 - 56	57 - 63	64 - 70	71 - 77	78 - 84	85 - 91
No. of plants	12	6	11	8	8	11

(iv)

Height (in cm)	50 - 56	57 - 63	64 - 70	71 - 77	78 - 84	85 - 91
No. of plants	12	11	6	8	8	11

11. Ages of 79 students (in years) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Age (in years)	14 - 24	24 - 34	34 - 44	44 - 54	54 - 64	64 - 74
No. of students	14	15	14	19	9	13

(ii)

Age (in years)	14 - 24	24 - 34	34 - 44	44 - 54	54 - 64	64 - 74
No. of students	14	15	9	23	9	13

(iii)

Age (in years)	14 - 24	24 - 34	34 - 44	44 - 54	54 - 64	64 - 74
No. of students	14	15	9	19	9	13

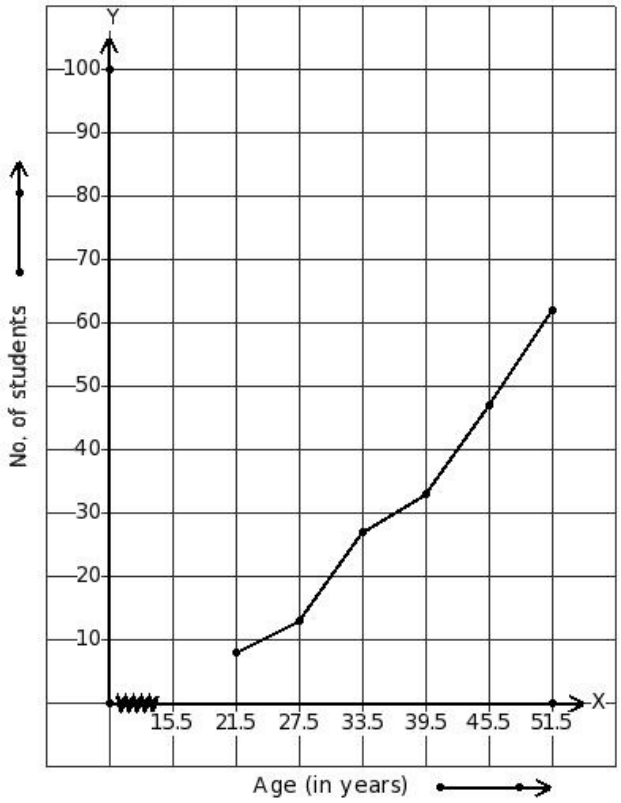
(iv)

Age (in years)	14 - 24	24 - 34	34 - 44	44 - 54	54 - 64	64 - 74
No. of students	14	13	9	19	9	15

(v)

Age (in years)	14 - 24	24 - 34	34 - 44	44 - 54	54 - 64	64 - 74
No. of students	14	9	15	19	9	13

12. Ages of 62 students (in years) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Age (in years)	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51
No. of students	8	5	14	6	14	15

(ii)

Age (in years)	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51
No. of students	8	5	12	6	14	15

(iii)

Age (in years)	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51
No. of students	8	5	14	4	14	15

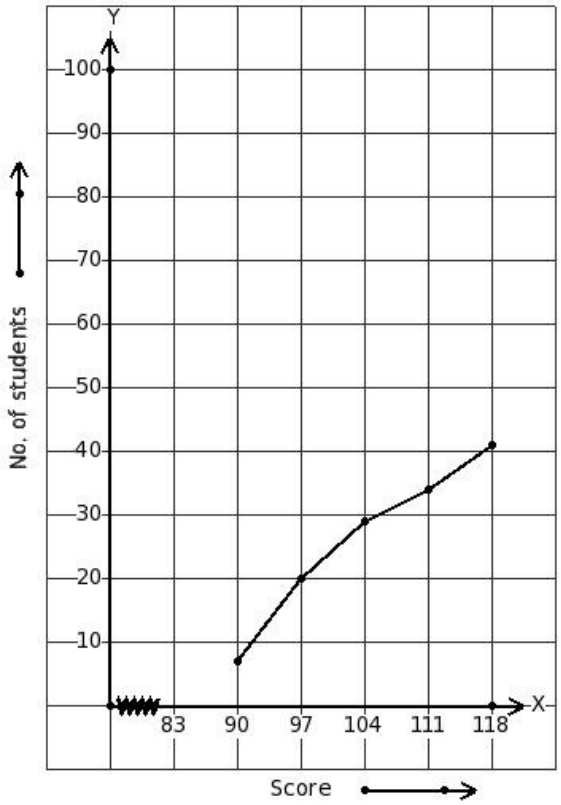
(iv)

Age (in years)	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51
No. of students	8	14	5	6	14	15

(v)

Age (in years)	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45	46 - 51
No. of students	8	15	14	6	14	5

13. Scores of 41 students are given below. Identify the frequency distribution table for the given 'less than' ogive.



(i)

Score	83 - 90	90 - 97	97 - 104	104 - 111	111 - 118
No. of students	7	7	9	5	13

(ii)

Score	83 - 90	90 - 97	97 - 104	104 - 111	111 - 118
No. of students	7	10	9	5	7

(iii)

Score	83 - 90	90 - 97	97 - 104	104 - 111	111 - 118
No. of students	7	13	9	5	7

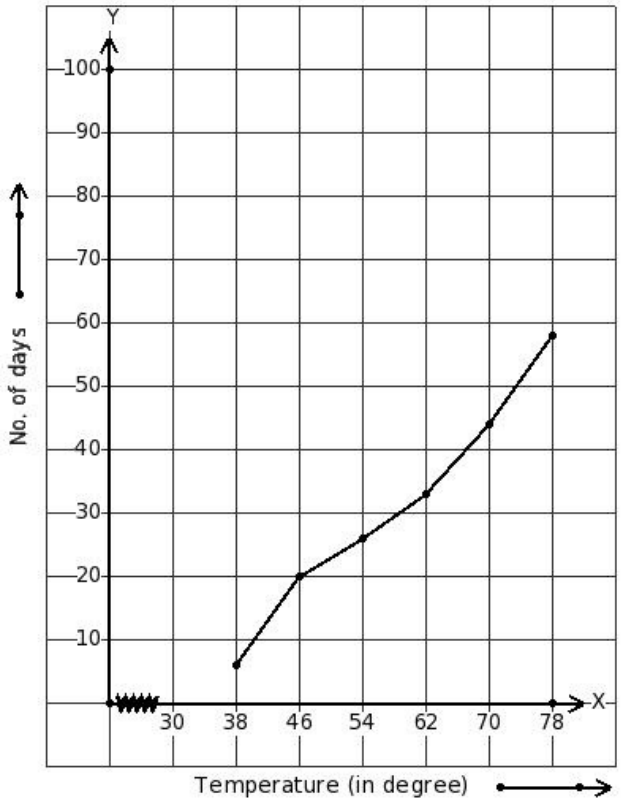
(iv)

Score	83 - 90	90 - 97	97 - 104	104 - 111	111 - 118
No. of students	7	13	5	5	7

(v)

Score	83 - 90	90 - 97	97 - 104	104 - 111	111 - 118
No. of students	7	9	13	5	7

14. Temperatures of 58 days (in °C) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Temperature (in degree)	30 - 38	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78
No. of days	6	6	14	7	11	14

(ii)

Temperature (in degree)	30 - 38	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78
No. of days	6	14	6	4	11	14

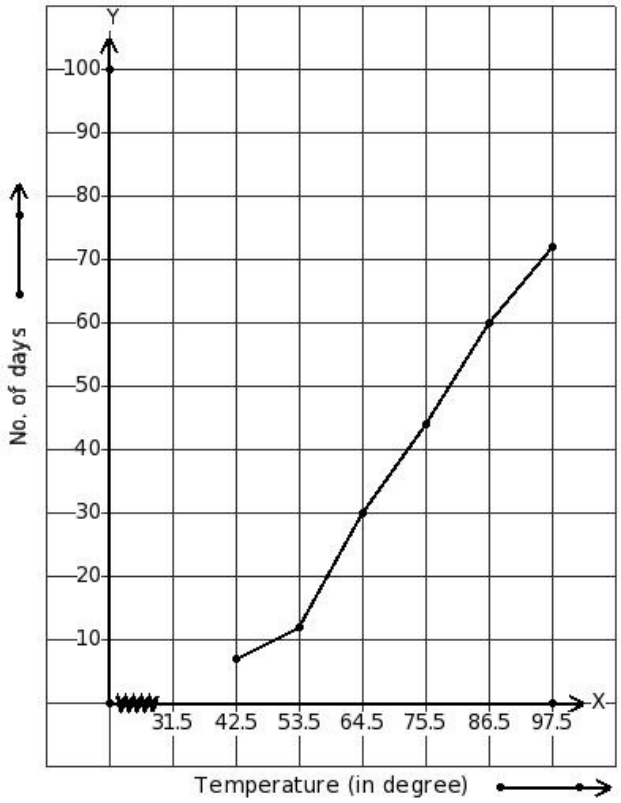
(iii)

Temperature (in degree)	30 - 38	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78
No. of days	6	14	10	7	11	14

(iv)

Temperature (in degree)	30 - 38	38 - 46	46 - 54	54 - 62	62 - 70	70 - 78
No. of days	6	14	6	7	11	14

15. Temperatures of 72 days (in °C) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97
No. of days	7	5	18	14	16	12

(ii)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97
No. of days	7	5	13	14	16	12

(iii)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97
No. of days	7	5	18	10	16	12

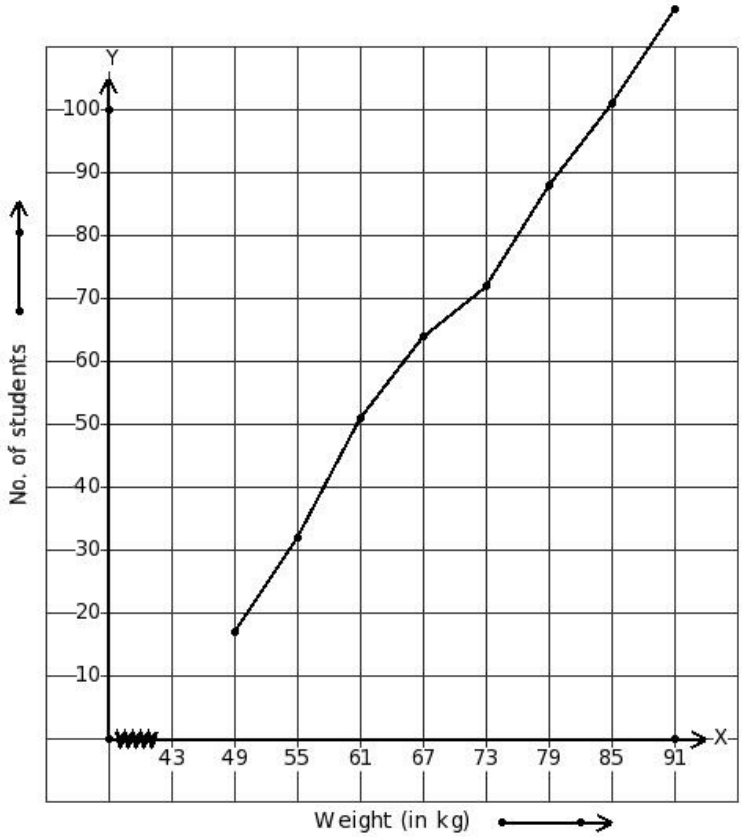
(iv)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97
No. of days	7	12	18	14	16	5

(v)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97
No. of days	7	18	5	14	16	12

16. Weights of 116 students (in kg) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Weight (in kg)	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85	85 - 91
No. of students	17	15	19	13	4	16	13	15

(ii)

Weight (in kg)	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85	85 - 91
No. of students	17	15	13	19	8	16	13	15

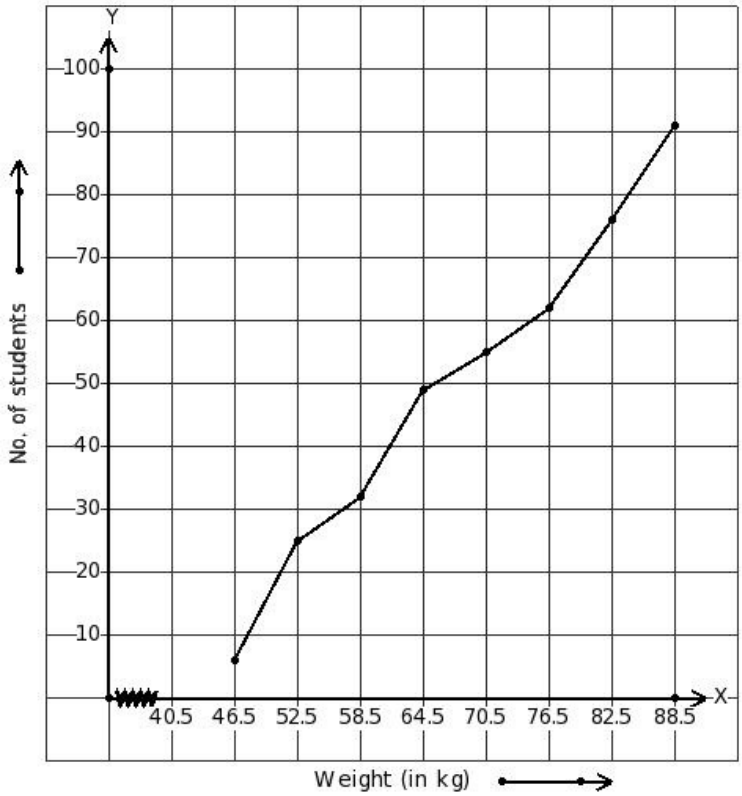
(iii)

Weight (in kg)	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85	85 - 91
No. of students	17	15	19	13	8	16	13	15

(iv)

Weight (in kg)	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85	85 - 91
No. of students	17	15	15	13	8	16	13	15

17. Weights of 91 students (in kg) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Weight (in kg)	41 - 46	47 - 52	53 - 58	59 - 64	65 - 70	71 - 76	77 - 82	83 - 88
No. of students	6	19	12	17	6	7	14	15

(ii)

Weight (in kg)	41 - 46	47 - 52	53 - 58	59 - 64	65 - 70	71 - 76	77 - 82	83 - 88
No. of students	6	15	7	17	6	7	14	19

(iii)

Weight (in kg)	41 - 46	47 - 52	53 - 58	59 - 64	65 - 70	71 - 76	77 - 82	83 - 88
No. of students	6	19	17	7	6	7	14	15

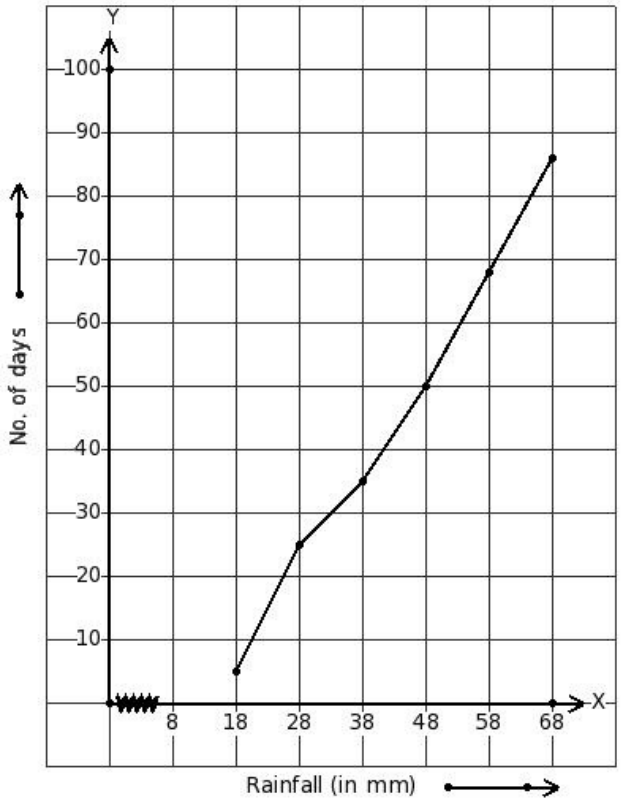
(iv)

Weight (in kg)	41 - 46	47 - 52	53 - 58	59 - 64	65 - 70	71 - 76	77 - 82	83 - 88
No. of students	6	19	7	17	6	7	14	15

(v)

Weight (in kg)	41 - 46	47 - 52	53 - 58	59 - 64	65 - 70	71 - 76	77 - 82	83 - 88
No. of students	6	19	7	17	4	7	14	15

18. Rainfall of 86 days (in mm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	5	18	10	15	18	20

(ii)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	5	20	8	15	18	18

(iii)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	5	20	10	15	18	18

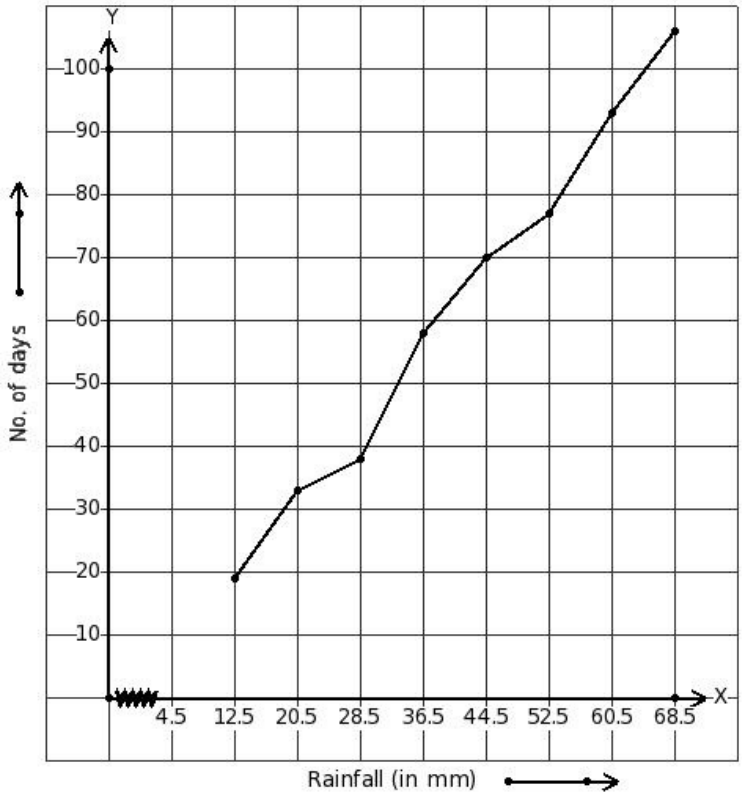
(iv)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	5	20	10	18	18	18

(v)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	5	10	20	15	18	18

19. Rainfall of 106 days (in mm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Rainfall (in mm)	5 - 12	13 - 20	21 - 28	29 - 36	37 - 44	45 - 52	53 - 60	61 - 68
No. of days	19	14	2	20	12	7	16	13

(ii)

Rainfall (in mm)	5 - 12	13 - 20	21 - 28	29 - 36	37 - 44	45 - 52	53 - 60	61 - 68
No. of days	19	14	5	20	10	7	16	13

(iii)

Rainfall (in mm)	5 - 12	13 - 20	21 - 28	29 - 36	37 - 44	45 - 52	53 - 60	61 - 68
No. of days	19	13	5	20	12	7	16	14

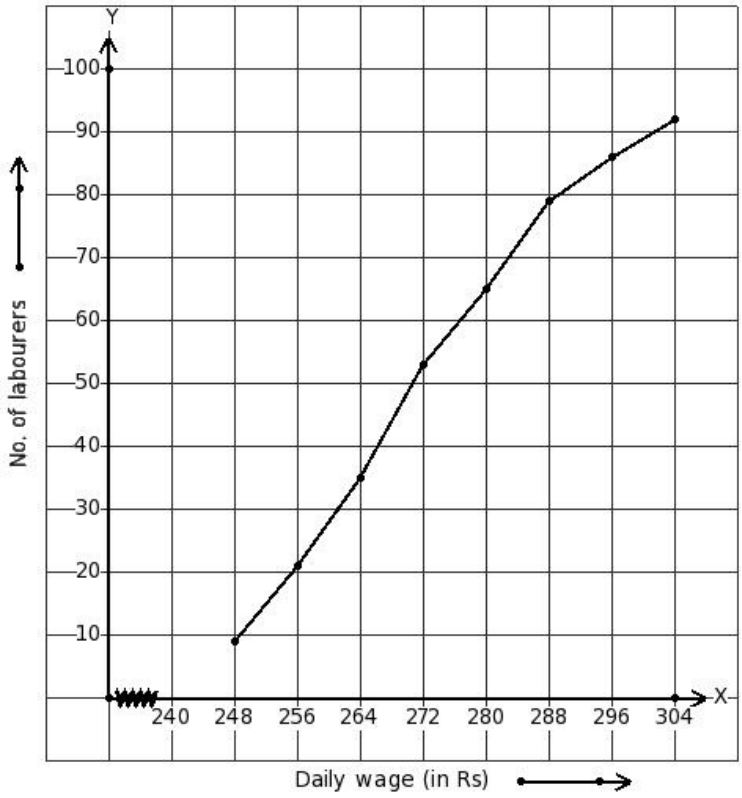
(iv)

Rainfall (in mm)	5 - 12	13 - 20	21 - 28	29 - 36	37 - 44	45 - 52	53 - 60	61 - 68
No. of days	19	14	20	5	12	7	16	13

(v)

Rainfall (in mm)	5 - 12	13 - 20	21 - 28	29 - 36	37 - 44	45 - 52	53 - 60	61 - 68
No. of days	19	14	5	20	12	7	16	13

20. Daily wages of 92 labourers (in ₹) are given below. Identify the frequency distribution table for the given ' less than ' ogive.



(i)

Daily wage (in Rs)	240 - 248	248 - 256	256 - 264	264 - 272	272 - 280	280 - 288	288 - 296	296 - 304
No. of labourers	9	6	14	18	12	14	7	12

(ii)

Daily wage (in Rs)	240 - 248	248 - 256	256 - 264	264 - 272	272 - 280	280 - 288	288 - 296	296 - 304
No. of labourers	9	12	11	18	12	14	7	6

(iii)

Daily wage (in Rs)	240 - 248	248 - 256	256 - 264	264 - 272	272 - 280	280 - 288	288 - 296	296 - 304
No. of labourers	9	12	14	18	12	14	7	6

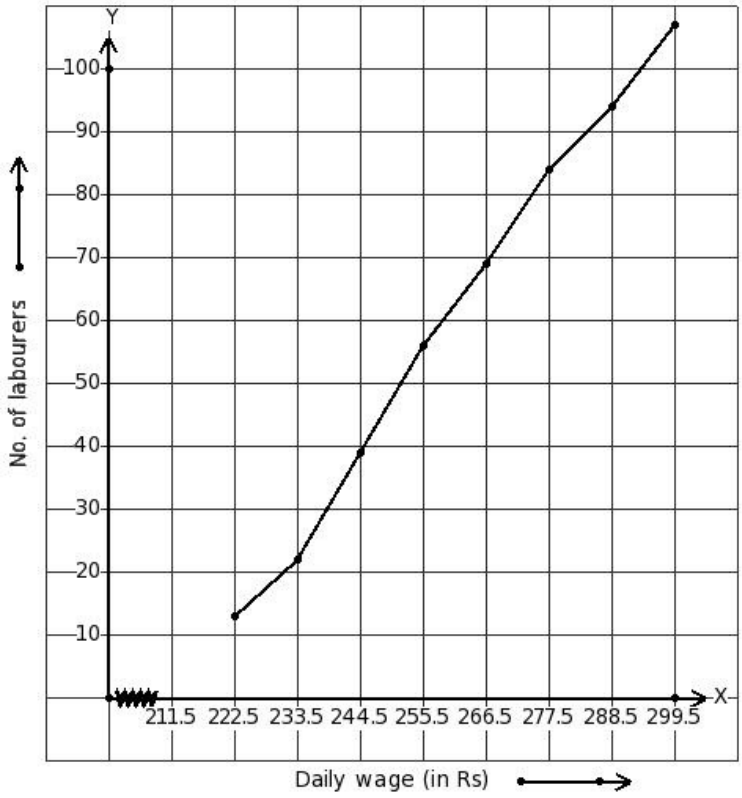
(iv)

Daily wage (in Rs)	240 - 248	248 - 256	256 - 264	264 - 272	272 - 280	280 - 288	288 - 296	296 - 304
No. of labourers	9	12	14	18	8	14	7	6

(v)

Daily wage (in Rs)	240 - 248	248 - 256	256 - 264	264 - 272	272 - 280	280 - 288	288 - 296	296 - 304
No. of labourers	9	12	18	14	12	14	7	6

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)	212 - 222	223 - 233	234 - 244	245 - 255	256 - 266	267 - 277	278 - 288	289 - 299
No. of labourers	13	9	22	17	13	15	10	13

(ii)

Daily wage (in Rs)	212 - 222	223 - 233	234 - 244	245 - 255	256 - 266	267 - 277	278 - 288	289 - 299
No. of labourers	13	9	17	17	13	15	10	13

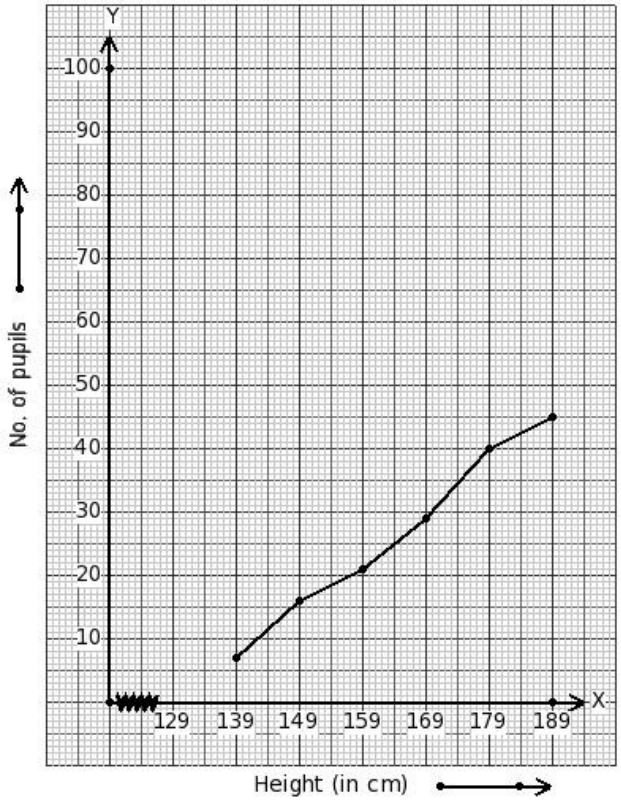
(iii)

Daily wage (in Rs)	212 - 222	223 - 233	234 - 244	245 - 255	256 - 266	267 - 277	278 - 288	289 - 299
No. of labourers	13	9	17	17	11	15	10	13

(iv)

Daily wage (in Rs)	212 - 222	223 - 233	234 - 244	245 - 255	256 - 266	267 - 277	278 - 288	289 - 299
No. of labourers	13	13	17	17	13	15	10	9

22. The heights of 45 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	less than 189
No. of pupils	7	16	21	29	40	45

(ii)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179	less than 189
No. of pupils	7	12	21	29	40	45

(iii)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179	less than 189
No. of pupils	7	16	21	25	36	41

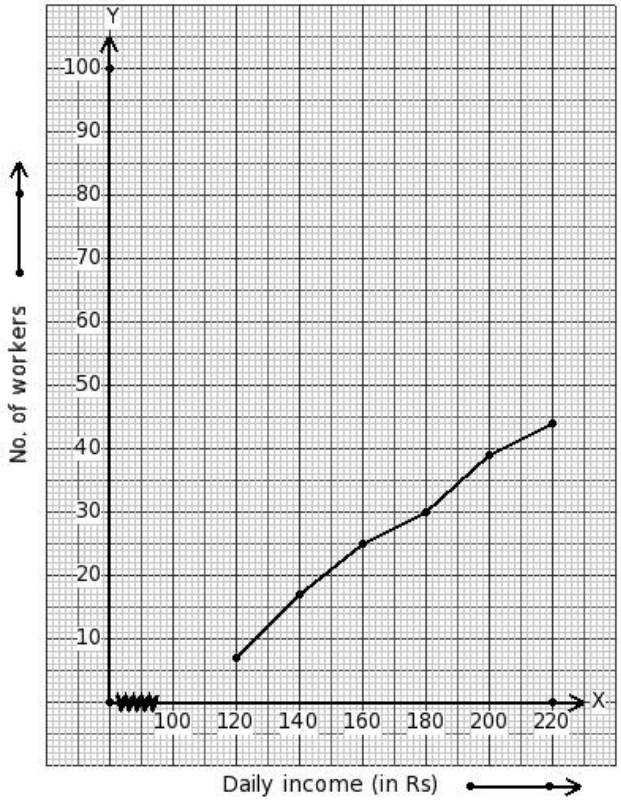
(iv)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179	less than 189
No. of pupils	7	16	26	34	45	50

(v)

Height (in cm)	less than 139	less than 149	less than 159	less than 169	less than 179	less than 189
No. of pupils	7	12	17	25	36	45

23. The daily income of 44 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	less than 220
No. of workers	7	17	25	30	39	44

(ii)

Daily income (in Rs)	less than 120	less than 140	less than 160	less than 180	less than 200	less than 220
No. of workers	7	17	29	34	43	48

(iii)

Daily income (in Rs)	less than 120	less than 140	less than 160	less than 180	less than 200	less than 220
No. of workers	7	15	25	30	39	44

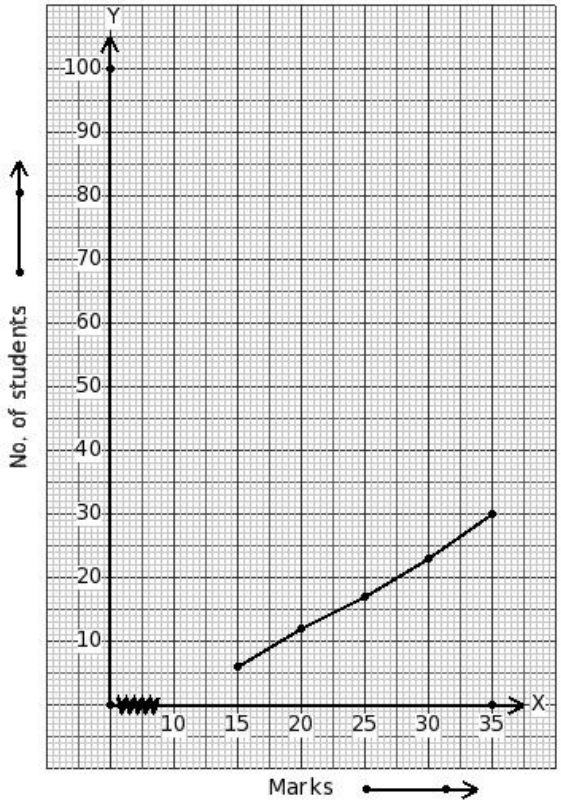
(iv)

Daily income (in Rs)	less than 120	less than 140	less than 160	less than 180	less than 200	less than 220
No. of workers	7	12	20	25	34	44

(v)

Daily income (in Rs)	less than 120	less than 140	less than 160	less than 180	less than 200	less than 220
No. of workers	7	17	25	32	41	46

24. The marks obtained by 30 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 15	less than 20	less than 25	less than 30	less than 35
No. of students	6	11	17	23	30

(ii)

Marks	less than 15	less than 20	less than 25	less than 30	less than 35
No. of students	6	14	19	25	32

(iii)

Marks	less than 15	less than 20	less than 25	less than 30	less than 35
No. of students	6	12	17	23	30

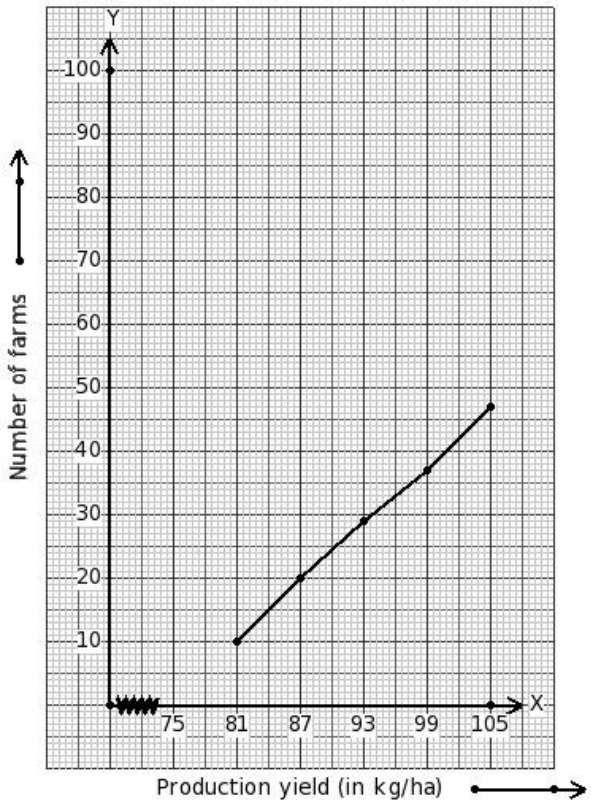
(iv)

Marks	less than 15	less than 20	less than 25	less than 30	less than 35
No. of students	6	12	15	21	28

(v)

Marks	less than 15	less than 20	less than 25	less than 30	less than 35
No. of students	6	13	18	24	30

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 81	less than 87	less than 93	less than 99	less than 105
Number of farms	10	18	27	35	45

(ii)

Production yield (in kg/ha)	less than 81	less than 87	less than 93	less than 99	less than 105
Number of farms	10	19	29	37	47

(iii)

Production yield (in kg/ha)	less than 81	less than 87	less than 93	less than 99	less than 105
Number of farms	10	20	29	37	47

(iv)

Production yield (in kg/ha)	less than 81	less than 87	less than 93	less than 99	less than 105
Number of farms	10	20	27	35	45

Assignment Key

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

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