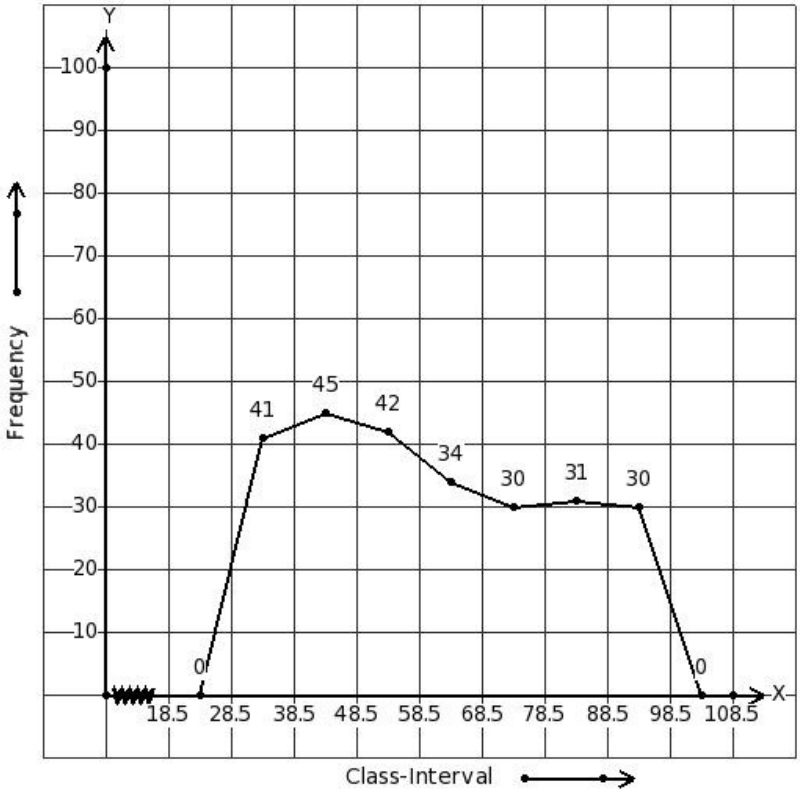
EduSahara™ Assignment

Name : Frequency Polygon

Chapter : Graphical Representation of Statistical Data

Grade : ICSE Grade IX

1. Identify the class interval table for the given frequency polygon.



(i)

Class-Interval	29 - 38	39 - 48	49 - 58	59 - 68	69 - 78	79 - 88	89 - 98
Frequency	41	45	42	34	30	31	30

(ii)

Class-Interval	29 - 38	39 - 48	49 - 58	59 - 68	69 - 78	79 - 88	89 - 98
Frequency	41	42	45	34	30	31	30

(iii)

Class-Interval	29 - 38	39 - 48	49 - 58	59 - 68	69 - 78	79 - 88	89 - 98
Frequency	41	45	47	34	30	31	30

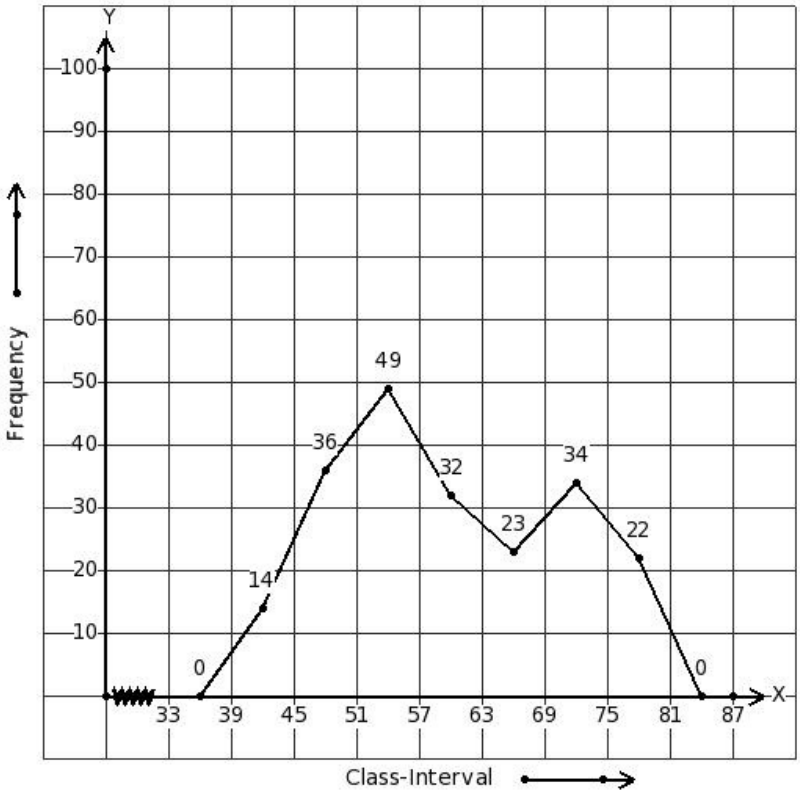
(iv)

Class-Interval	29 - 38	39 - 48	49 - 58	59 - 68	69 - 78	79 - 88	89 - 98
Frequency	41	45	42	32	30	31	30

(v)

Class-Interval	29 - 38	39 - 48	49 - 58	59 - 68	69 - 78	79 - 88	89 - 98
Frequency	41	30	42	34	30	31	45

2. Identify the class interval table for the given frequency polygon.



(i)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
Frequency	14	49	36	32	23	34	22

(ii)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
Frequency	14	36	49	32	23	34	22

(iii)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
Frequency	14	22	49	32	23	34	36

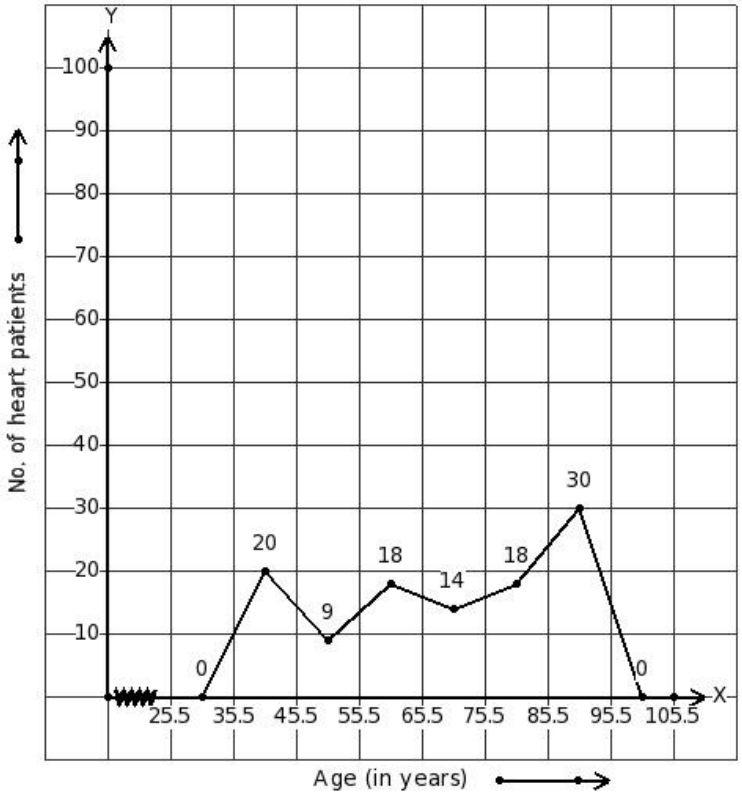
(iv)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
Frequency	14	36	49	34	23	34	22

(v)

Class-Interval	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69	69 - 75	75 - 81
Frequency	14	36	52	32	23	34	22

3. Given frequency polygon showing the number of heart patients at various age groups, identify the class interval table.



(i)

Age (in years)	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of heart patients	20	9	14	14	18	30

(ii)

Age (in years)	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of heart patients	20	30	18	14	18	9

(iii)

Age (in years)	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of heart patients	20	9	18	14	18	30

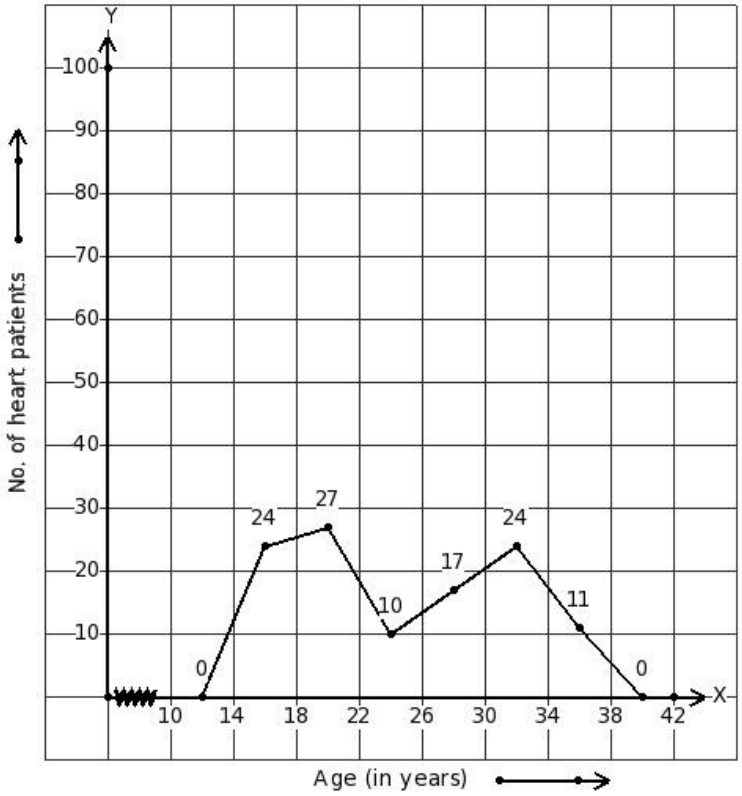
(iv)

Age (in years)	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of heart patients	20	18	9	14	18	30

(v)

Age (in years)	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of heart patients	20	9	18	19	18	30

4. Given frequency polygon showing the number of heart patients at various age groups, identify the class interval table.



(i)

Age (in years)	14 - 18	18 - 22	22 - 26	26 - 30	30 - 34	34 - 38
No. of heart patients	24	27	10	12	24	11

(ii)

Age (in years)	14 - 18	18 - 22	22 - 26	26 - 30	30 - 34	34 - 38
No. of heart patients	24	10	27	17	24	11

(iii)

Age (in years)	14 - 18	18 - 22	22 - 26	26 - 30	30 - 34	34 - 38
No. of heart patients	24	27	14	17	24	11

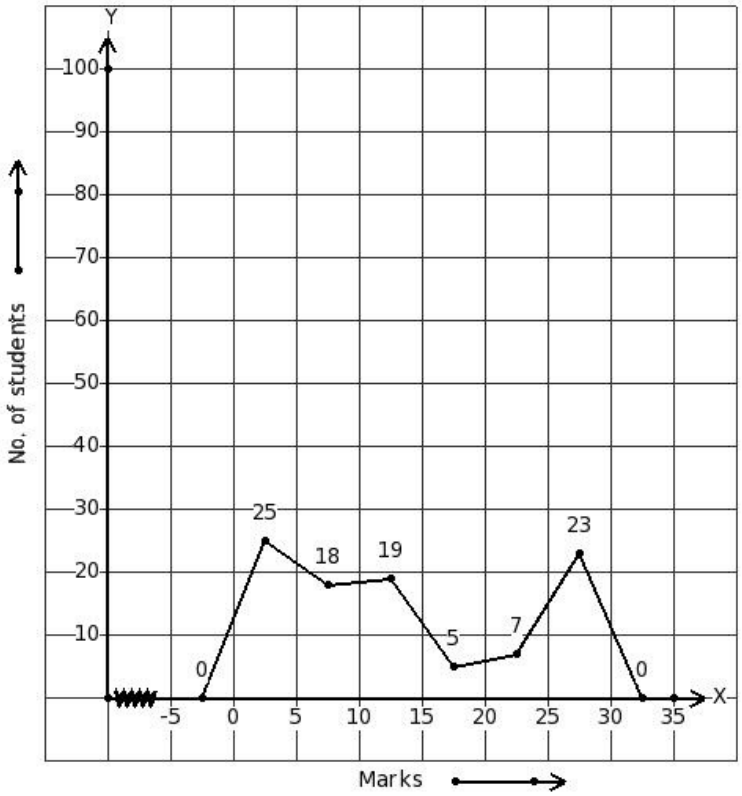
(iv)

Age (in years)	14 - 18	18 - 22	22 - 26	26 - 30	30 - 34	34 - 38
No. of heart patients	24	27	10	17	24	11

(v)

Age (in years)	14 - 18	18 - 22	22 - 26	26 - 30	30 - 34	34 - 38
No. of heart patients	24	11	10	17	24	27

5. Marks obtained by 97 students of a class in an examination are given below.
Identify the class interval table for the given frequency polygon.



(i)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30
No. of students	25	18	16	5	7	23

(ii)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30
No. of students	25	23	19	5	7	18

(iii)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30
No. of students	25	18	19	5	7	23

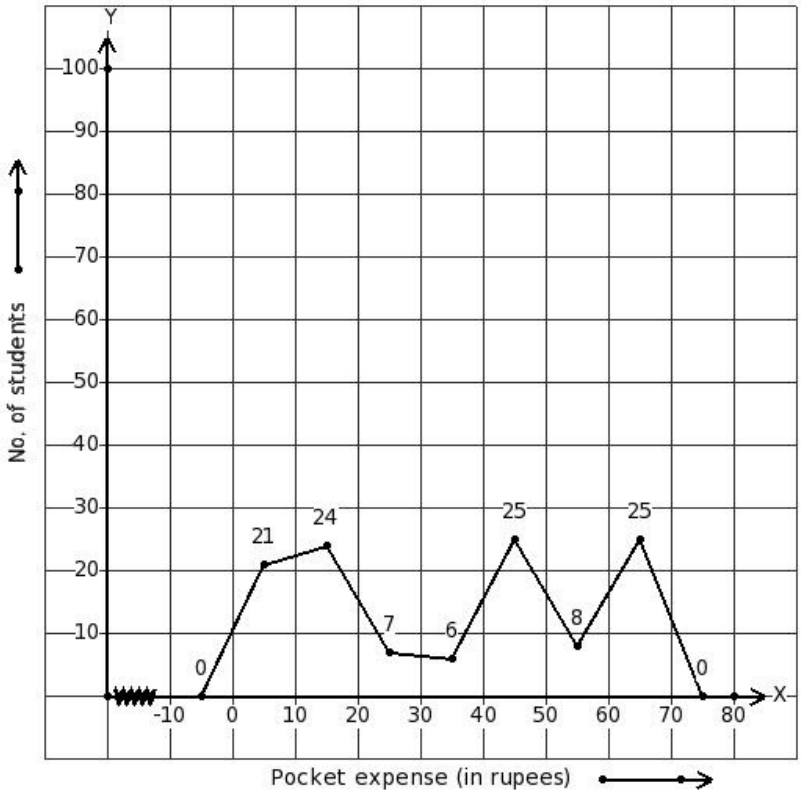
(iv)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30
No. of students	25	18	19	3	7	23

(v)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30
No. of students	25	19	18	5	7	23

6. The daily pocket expenses of 116 students in a school are given below.
Identify the class interval table for the given frequency polygon.



(i)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	21	24	2	6	25	8	25

(ii)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	21	25	7	6	25	8	24

(iii)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	21	7	24	6	25	8	25

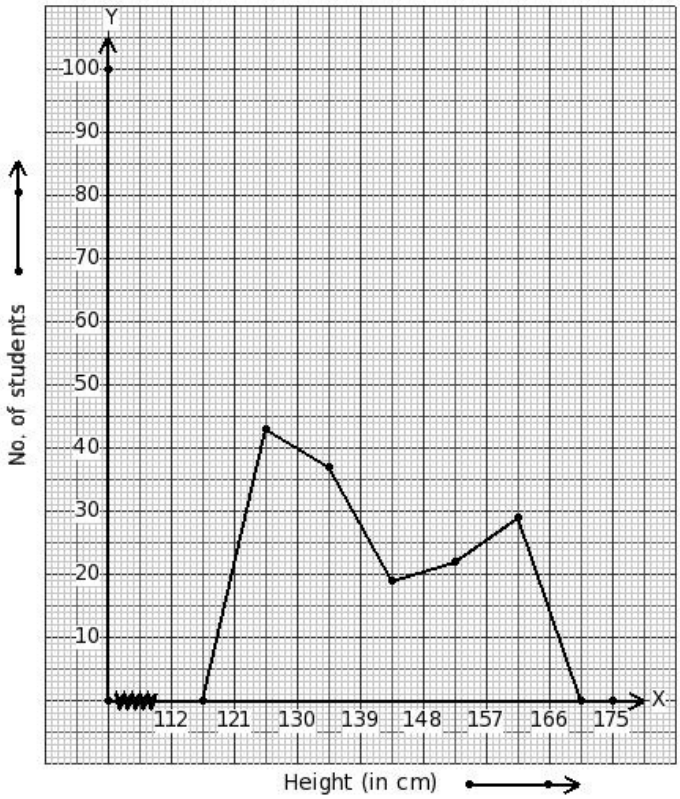
(iv)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	21	24	7	6	25	8	25

(v)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	21	24	7	1	25	8	25

7. Heights of 150 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166
No. of students	43	41	19	22	29

(ii)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166
No. of students	43	37	19	22	29

(iii)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166
No. of students	43	37	24	22	29

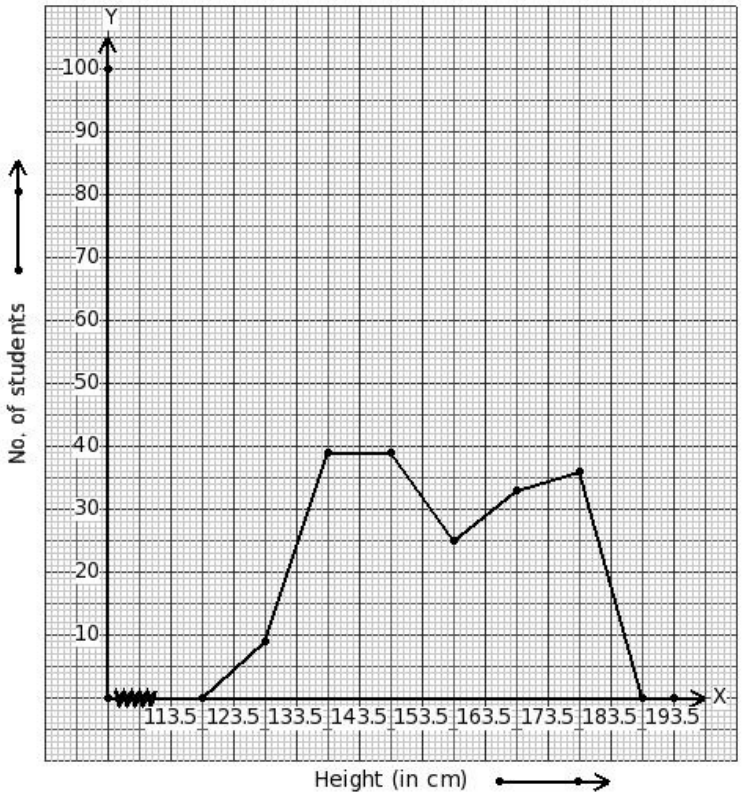
(iv)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166
No. of students	43	29	19	22	37

(v)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166
No. of students	43	19	37	22	29

8. Heights of 181 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	124 - 133	134 - 143	144 - 153	154 - 163	164 - 173	174 - 183
No. of students	9	39	39	25	33	36

(ii)

Height (in cm)	124 - 133	134 - 143	144 - 153	154 - 163	164 - 173	174 - 183
No. of students	9	39	39	28	33	36

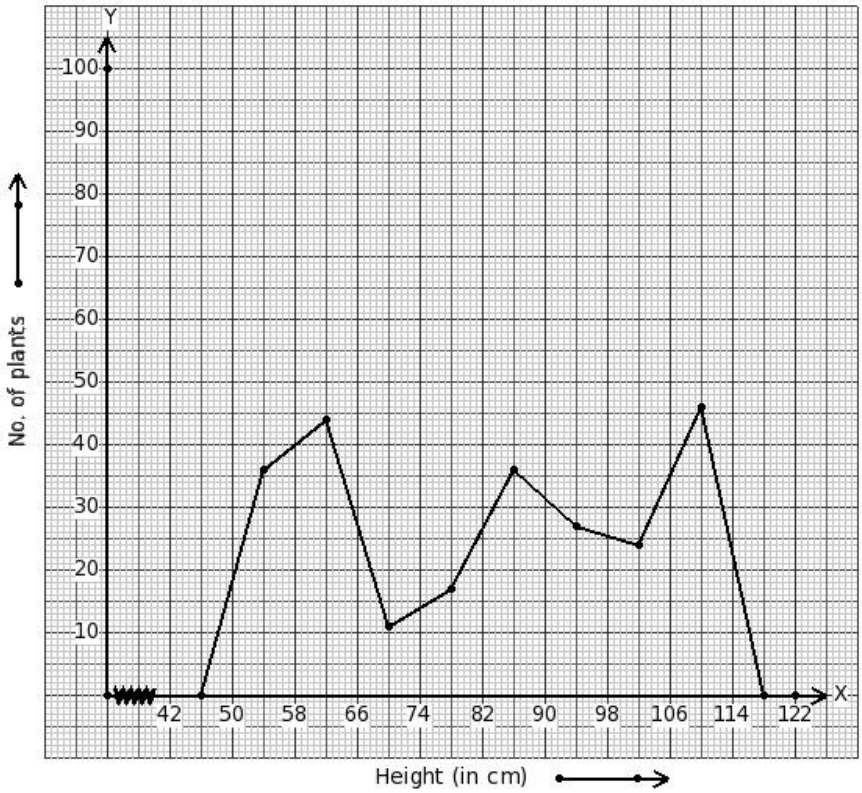
(iii)

Height (in cm)	124 - 133	134 - 143	144 - 153	154 - 163	164 - 173	174 - 183
No. of students	9	36	39	25	33	39

(iv)

Height (in cm)	124 - 133	134 - 143	144 - 153	154 - 163	164 - 173	174 - 183
No. of students	9	39	37	25	33	36

9. Heights of 241 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90	90 - 98	98 - 106	106 - 114
No. of plants	36	44	11	17	38	27	24	46

(ii)

Height (in cm)	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90	90 - 98	98 - 106	106 - 114
No. of plants	36	46	11	17	36	27	24	44

(iii)

Height (in cm)	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90	90 - 98	98 - 106	106 - 114
No. of plants	36	44	14	17	36	27	24	46

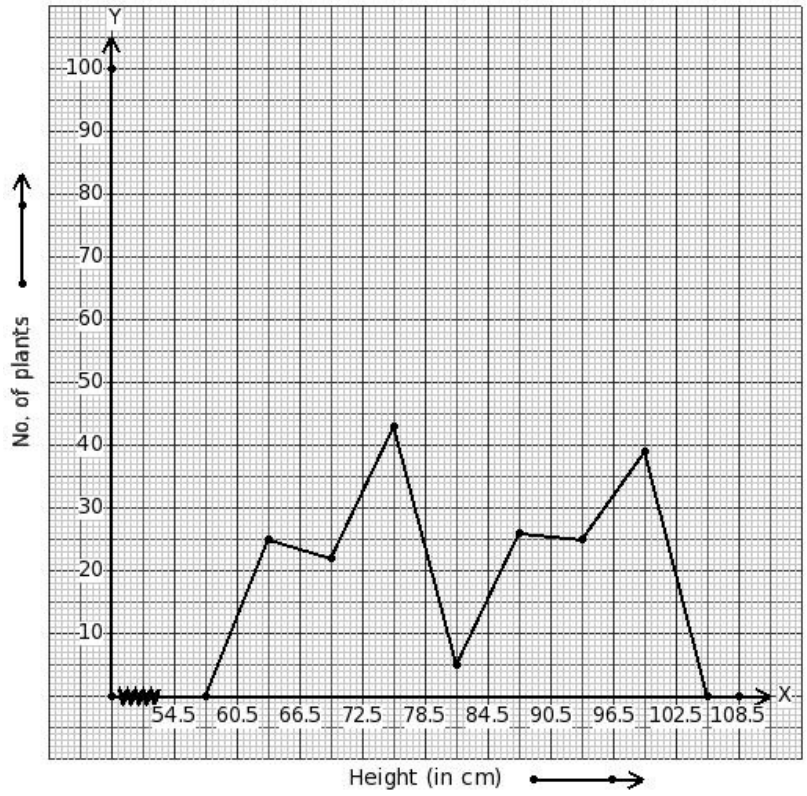
(iv)

Height (in cm)	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90	90 - 98	98 - 106	106 - 114
No. of plants	36	44	11	17	36	27	24	46

(v)

Height (in cm)	50 - 58	58 - 66	66 - 74	74 - 82	82 - 90	90 - 98	98 - 106	106 - 114
No. of plants	36	44	17	11	36	27	24	46

10. Heights of 185 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	61 - 66	67 - 72	73 - 78	79 - 84	85 - 90	91 - 96	97 - 102
No. of plants	25	22	43	5	26	25	39

(ii)

Height (in cm)	61 - 66	67 - 72	73 - 78	79 - 84	85 - 90	91 - 96	97 - 102
No. of plants	25	43	22	5	26	25	39

(iii)

Height (in cm)	61 - 66	67 - 72	73 - 78	79 - 84	85 - 90	91 - 96	97 - 102
No. of plants	25	39	43	5	26	25	22

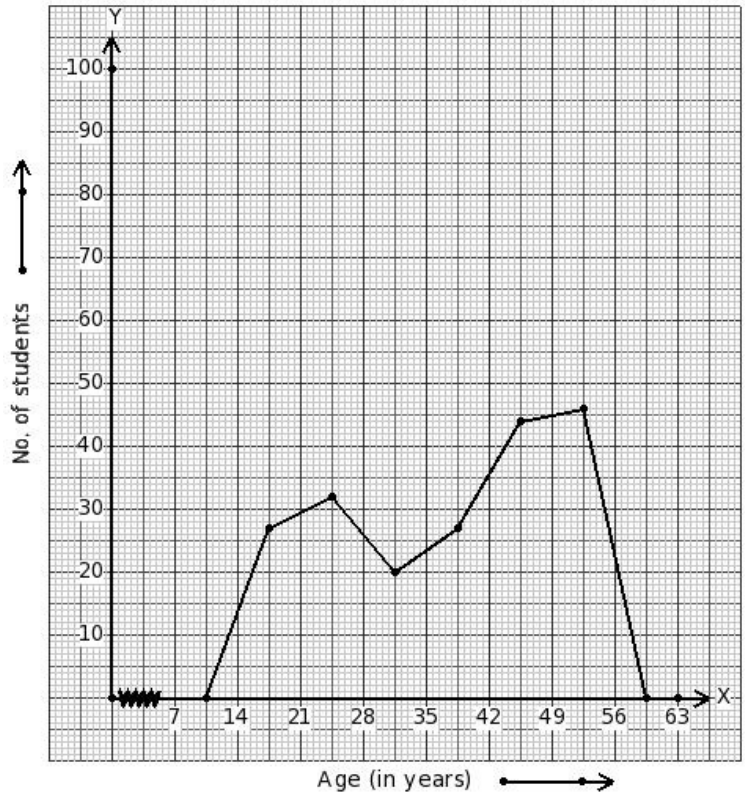
(iv)

Height (in cm)	61 - 66	67 - 72	73 - 78	79 - 84	85 - 90	91 - 96	97 - 102
No. of plants	25	22	48	5	26	25	39

(v)

Height (in cm)	61 - 66	67 - 72	73 - 78	79 - 84	85 - 90	91 - 96	97 - 102
No. of plants	25	22	43	3	26	25	39

11. Ages of 196 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	14 - 21	21 - 28	28 - 35	35 - 42	42 - 49	49 - 56
No. of students	27	32	17	27	44	46

(ii)

Age (in years)	14 - 21	21 - 28	28 - 35	35 - 42	42 - 49	49 - 56
No. of students	27	32	20	27	44	46

(iii)

Age (in years)	14 - 21	21 - 28	28 - 35	35 - 42	42 - 49	49 - 56
No. of students	27	32	20	23	44	46

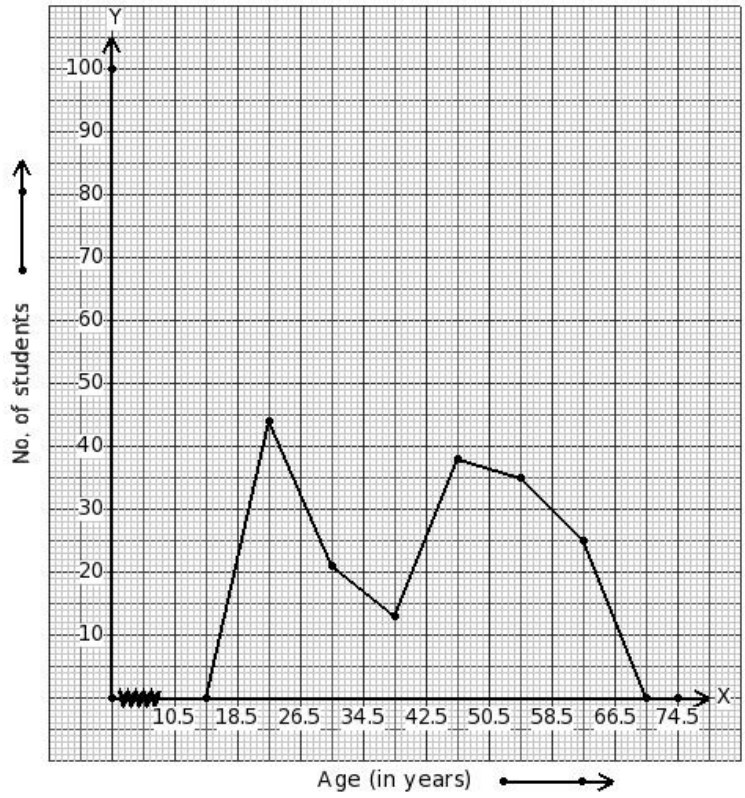
(iv)

Age (in years)	14 - 21	21 - 28	28 - 35	35 - 42	42 - 49	49 - 56
No. of students	27	20	32	27	44	46

(v)

Age (in years)	14 - 21	21 - 28	28 - 35	35 - 42	42 - 49	49 - 56
No. of students	27	46	20	27	44	32

12. Ages of 176 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	19 - 26	27 - 34	35 - 42	43 - 50	51 - 58	59 - 66
No. of students	44	21	15	38	35	25

(ii)

Age (in years)	19 - 26	27 - 34	35 - 42	43 - 50	51 - 58	59 - 66
No. of students	44	21	13	38	35	25

(iii)

Age (in years)	19 - 26	27 - 34	35 - 42	43 - 50	51 - 58	59 - 66
No. of students	44	25	13	38	35	21

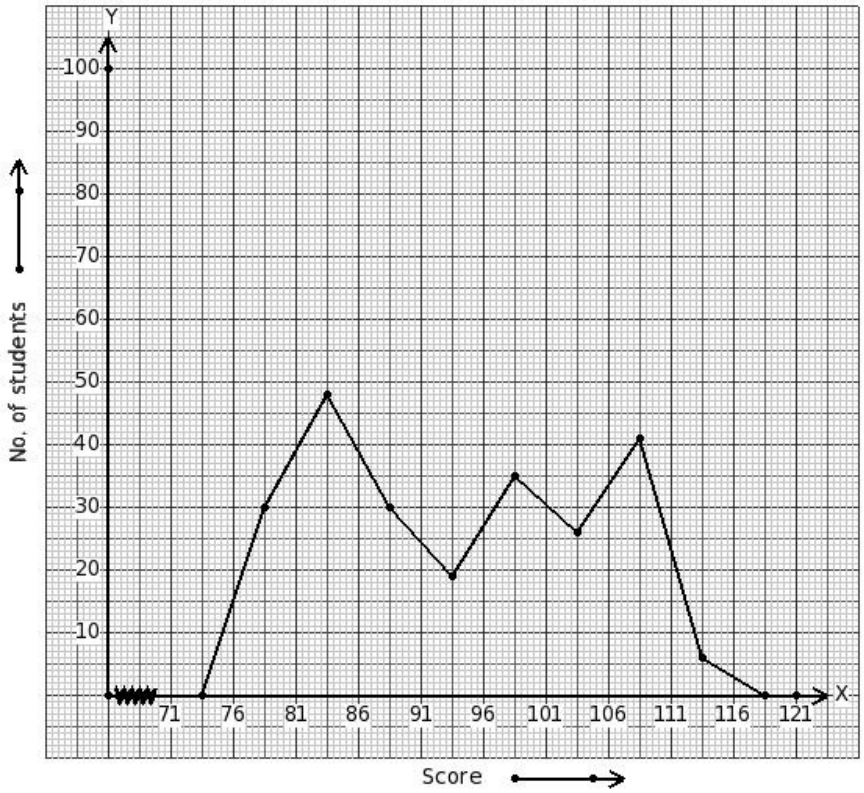
(iv)

Age (in years)	19 - 26	27 - 34	35 - 42	43 - 50	51 - 58	59 - 66
No. of students	44	21	13	36	35	25

(v)

Age (in years)	19 - 26	27 - 34	35 - 42	43 - 50	51 - 58	59 - 66
No. of students	44	13	21	38	35	25

13. Scores of 235 students are given below. Identify the class interval table for the given frequency polygon.



(i)

Score	76 - 81	81 - 86	86 - 91	91 - 96	96 - 101	101 - 106	106 - 111	111 - 116
No. of students	30	48	19	30	35	26	41	6

(ii)

Score	76 - 81	81 - 86	86 - 91	91 - 96	96 - 101	101 - 106	106 - 111	111 - 116
No. of students	30	48	30	19	38	26	41	6

(iii)

Score	76 - 81	81 - 86	86 - 91	91 - 96	96 - 101	101 - 106	106 - 111	111 - 116
No. of students	30	48	25	19	35	26	41	6

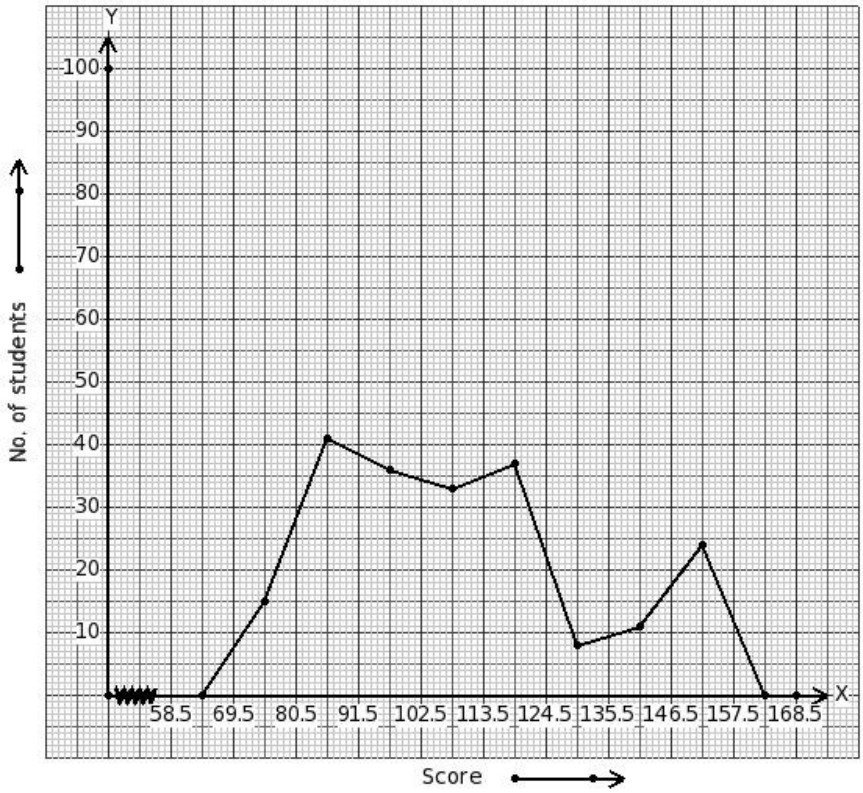
(iv)

Score	76 - 81	81 - 86	86 - 91	91 - 96	96 - 101	101 - 106	106 - 111	111 - 116
No. of students	30	6	30	19	35	26	41	48

(v)

Score	76 - 81	81 - 86	86 - 91	91 - 96	96 - 101	101 - 106	106 - 111	111 - 116
No. of students	30	48	30	19	35	26	41	6

14. Scores of 205 students are given below. Identify the class interval table for the given frequency polygon.



(i)

Score	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146	147 - 157
No. of students	15	24	36	33	37	8	11	41

(ii)

Score	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146	147 - 157
No. of students	15	41	36	33	37	8	11	24

(iii)

Score	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146	147 - 157
No. of students	15	41	36	33	34	8	11	24

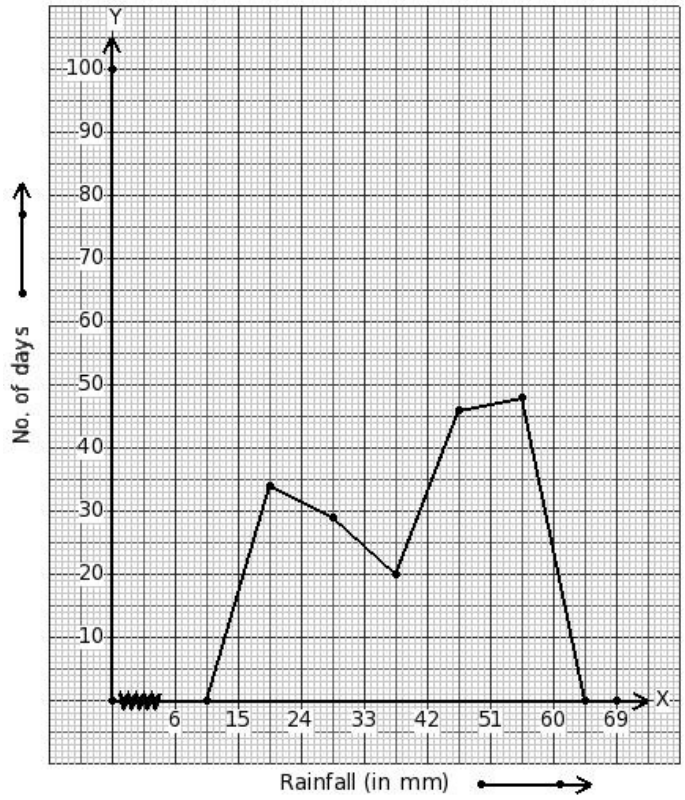
(iv)

Score	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146	147 - 157
No. of students	15	41	33	36	37	8	11	24

(v)

Score	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146	147 - 157
No. of students	15	41	38	33	37	8	11	24

15. Rainfall of 177 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
No. of days	34	29	20	46	48

(ii)

Rainfall (in mm)	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
No. of days	34	29	17	46	48

(iii)

Rainfall (in mm)	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
No. of days	34	31	20	46	48

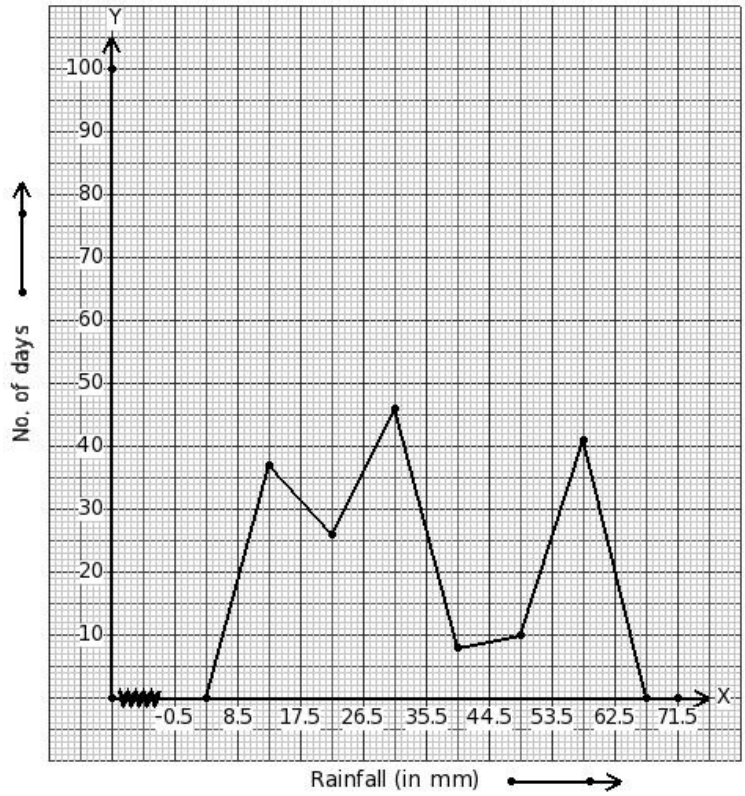
(iv)

Rainfall (in mm)	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
No. of days	34	48	20	46	29

(v)

Rainfall (in mm)	15 - 24	24 - 33	33 - 42	42 - 51	51 - 60
No. of days	34	20	29	46	48

16. Rainfall of 168 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	9 - 17	18 - 26	27 - 35	36 - 44	45 - 53	54 - 62
No. of days	37	26	46	3	10	41

(ii)

Rainfall (in mm)	9 - 17	18 - 26	27 - 35	36 - 44	45 - 53	54 - 62
No. of days	37	46	26	8	10	41

(iii)

Rainfall (in mm)	9 - 17	18 - 26	27 - 35	36 - 44	45 - 53	54 - 62
No. of days	37	26	50	8	10	41

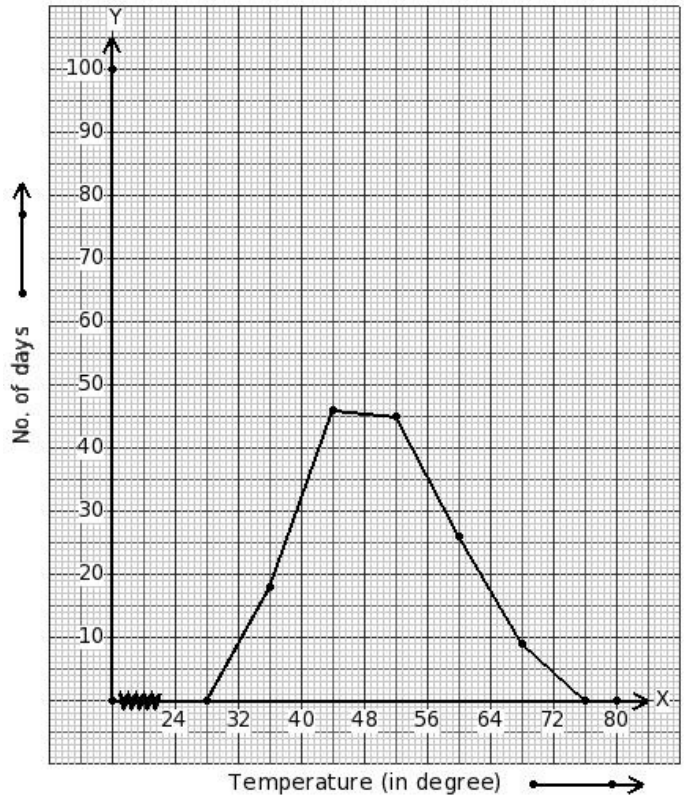
(iv)

Rainfall (in mm)	9 - 17	18 - 26	27 - 35	36 - 44	45 - 53	54 - 62
No. of days	37	41	46	8	10	26

(v)

Rainfall (in mm)	9 - 17	18 - 26	27 - 35	36 - 44	45 - 53	54 - 62
No. of days	37	26	46	8	10	41

17. Temperatures of 144 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	32 - 40	40 - 48	48 - 56	56 - 64	64 - 72
No. of days	18	45	46	26	9

(ii)

Temperature (in degree)	32 - 40	40 - 48	48 - 56	56 - 64	64 - 72
No. of days	18	9	45	26	46

(iii)

Temperature (in degree)	32 - 40	40 - 48	48 - 56	56 - 64	64 - 72
No. of days	18	46	43	26	9

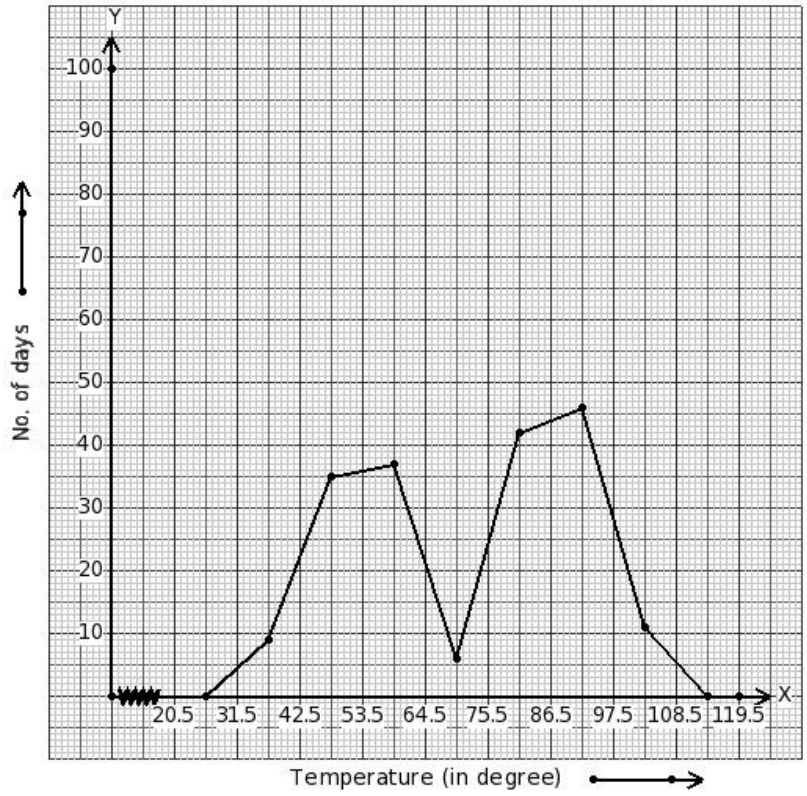
(iv)

Temperature (in degree)	32 - 40	40 - 48	48 - 56	56 - 64	64 - 72
No. of days	18	41	45	26	9

(v)

Temperature (in degree)	32 - 40	40 - 48	48 - 56	56 - 64	64 - 72
No. of days	18	46	45	26	9

18. Temperatures of 186 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97	98 - 108
No. of days	9	35	37	11	42	46	11

(ii)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97	98 - 108
No. of days	9	11	37	6	42	46	35

(iii)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97	98 - 108
No. of days	9	35	39	6	42	46	11

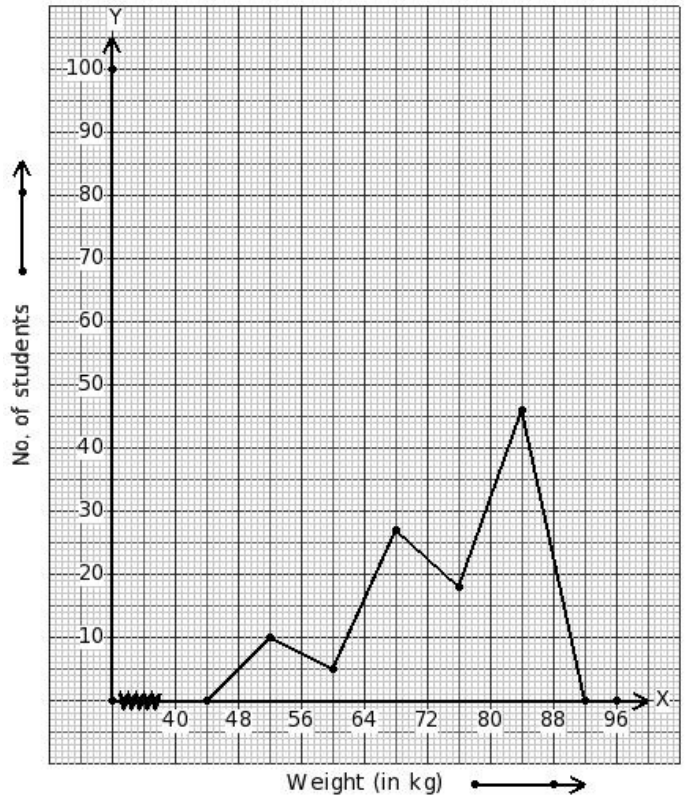
(iv)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97	98 - 108
No. of days	9	35	37	6	42	46	11

(v)

Temperature (in degree)	32 - 42	43 - 53	54 - 64	65 - 75	76 - 86	87 - 97	98 - 108
No. of days	9	37	35	6	42	46	11

19. Weights of 106 students (in kg) are given below. Identify the class interval table for the given frequency polygon.



(i)

Weight (in kg)	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of students	10	27	5	18	46

(ii)

Weight (in kg)	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of students	10	3	27	18	46

(iii)

Weight (in kg)	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of students	10	5	32	18	46

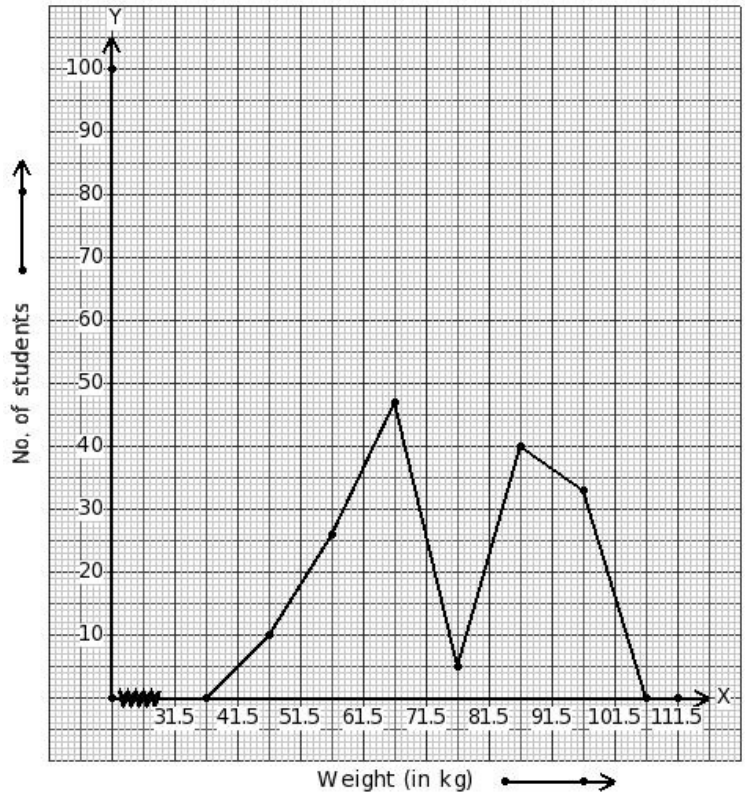
(iv)

Weight (in kg)	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of students	10	46	27	18	5

(v)

Weight (in kg)	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88
No. of students	10	5	27	18	46

20. Weights of 161 students (in kg) are given below. Identify the class interval table for the given frequency polygon.



(i)

Weight (in kg)	42 - 51	52 - 61	62 - 71	72 - 81	82 - 91	92 - 101
No. of students	10	26	47	5	40	33

(ii)

Weight (in kg)	42 - 51	52 - 61	62 - 71	72 - 81	82 - 91	92 - 101
No. of students	10	26	52	5	40	33

(iii)

Weight (in kg)	42 - 51	52 - 61	62 - 71	72 - 81	82 - 91	92 - 101
No. of students	10	47	26	5	40	33

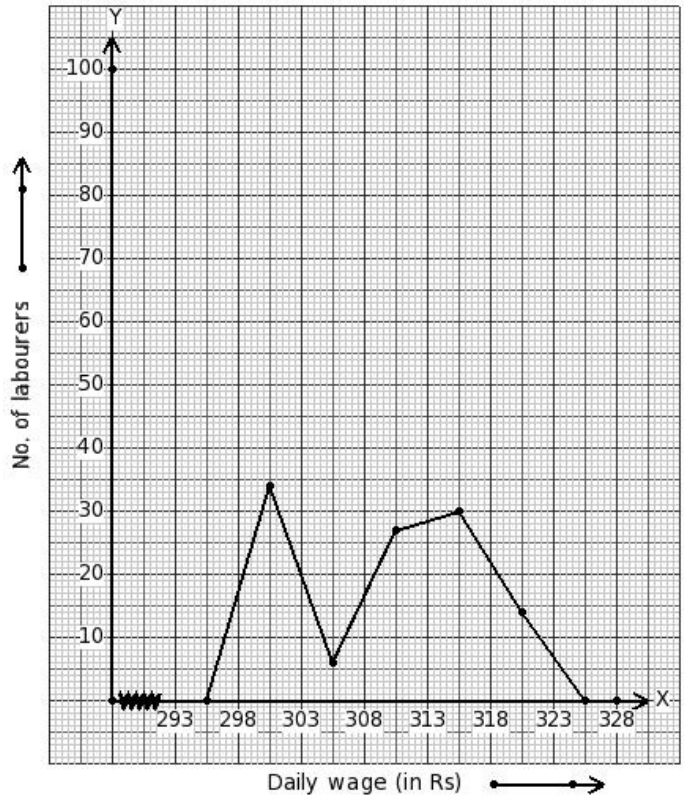
(iv)

Weight (in kg)	42 - 51	52 - 61	62 - 71	72 - 81	82 - 91	92 - 101
No. of students	10	33	47	5	40	26

(v)

Weight (in kg)	42 - 51	52 - 61	62 - 71	72 - 81	82 - 91	92 - 101
No. of students	10	26	47	2	40	33

21. Daily wages of 111 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	298 - 303	303 - 308	308 - 313	313 - 318	318 - 323
No. of labourers	34	2	27	30	14

(ii)

Daily wage (in Rs)	298 - 303	303 - 308	308 - 313	313 - 318	318 - 323
No. of labourers	34	6	27	30	14

(iii)

Daily wage (in Rs)	298 - 303	303 - 308	308 - 313	313 - 318	318 - 323
No. of labourers	34	27	6	30	14

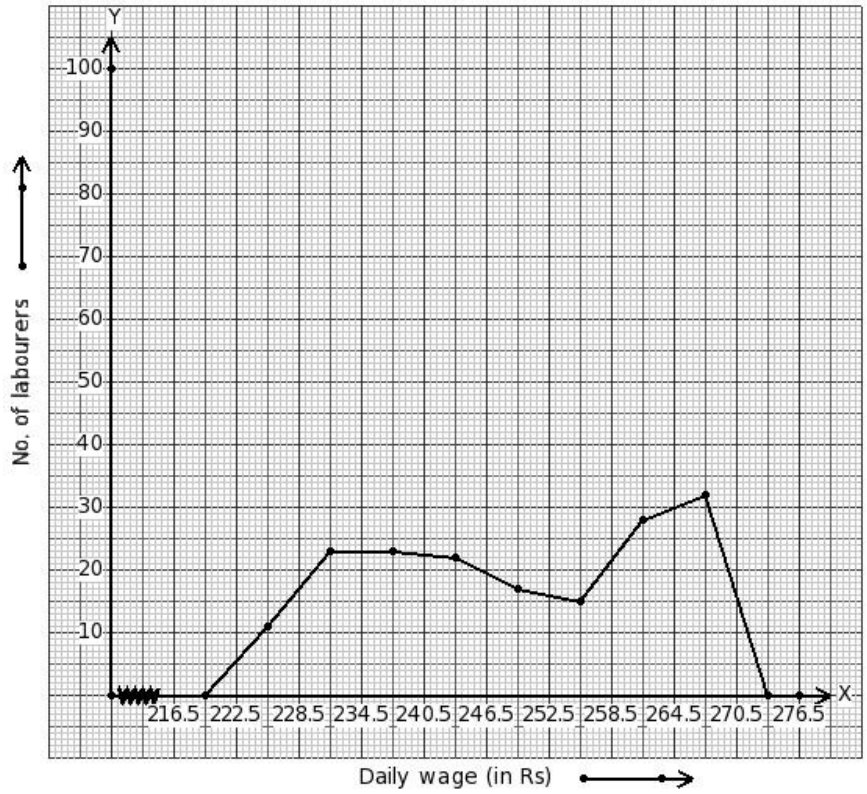
(iv)

Daily wage (in Rs)	298 - 303	303 - 308	308 - 313	313 - 318	318 - 323
No. of labourers	34	6	25	30	14

(v)

Daily wage (in Rs)	298 - 303	303 - 308	308 - 313	313 - 318	318 - 323
No. of labourers	34	14	27	30	6

22. Daily wages of 171 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	223 - 228	229 - 234	235 - 240	241 - 246	247 - 252	253 - 258	259 - 264	265 - 270
No. of labourers	11	23	23	22	15	15	28	32

(ii)

Daily wage (in Rs)	223 - 228	229 - 234	235 - 240	241 - 246	247 - 252	253 - 258	259 - 264	265 - 270
No. of labourers	11	23	23	22	17	15	28	32

(iii)

Daily wage (in Rs)	223 - 228	229 - 234	235 - 240	241 - 246	247 - 252	253 - 258	259 - 264	265 - 270
No. of labourers	11	23	22	23	17	15	28	32

(iv)

Daily wage (in Rs)	223 - 228	229 - 234	235 - 240	241 - 246	247 - 252	253 - 258	259 - 264	265 - 270
No. of labourers	11	23	28	22	17	15	28	32

(v)

Daily wage (in Rs)	223 - 228	229 - 234	235 - 240	241 - 246	247 - 252	253 - 258	259 - 264	265 - 270
No. of labourers	11	32	23	22	17	15	28	23

Assignment Key

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