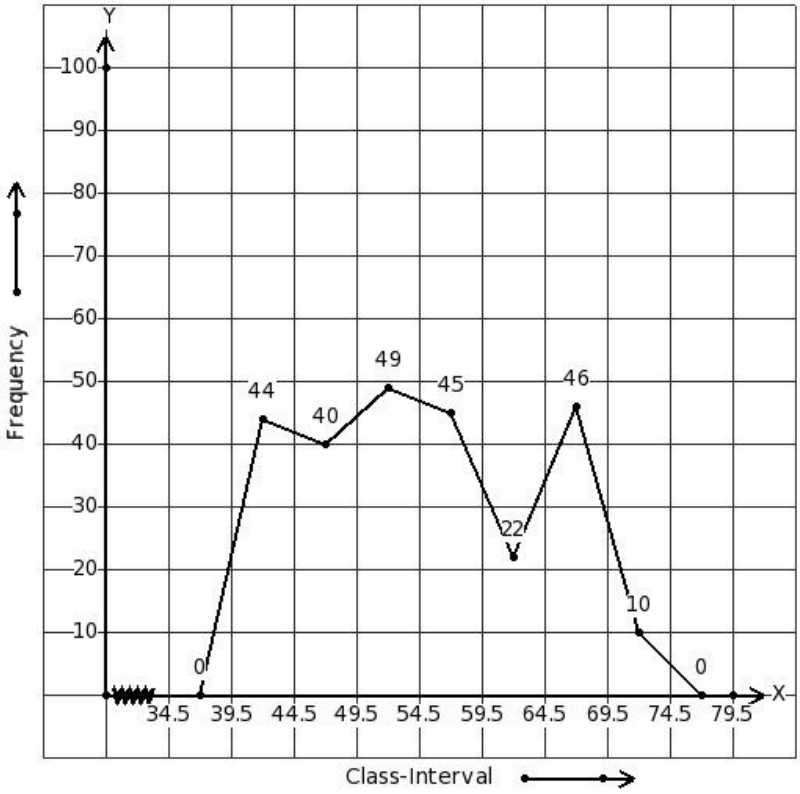
EduSahara™ Assignment

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	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74
Frequency	44	40	51	45	22	46	10

(ii)

Class-Interval	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74
Frequency	44	49	40	45	22	46	10

(iii)

Class-Interval	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74
Frequency	44	10	49	45	22	46	40

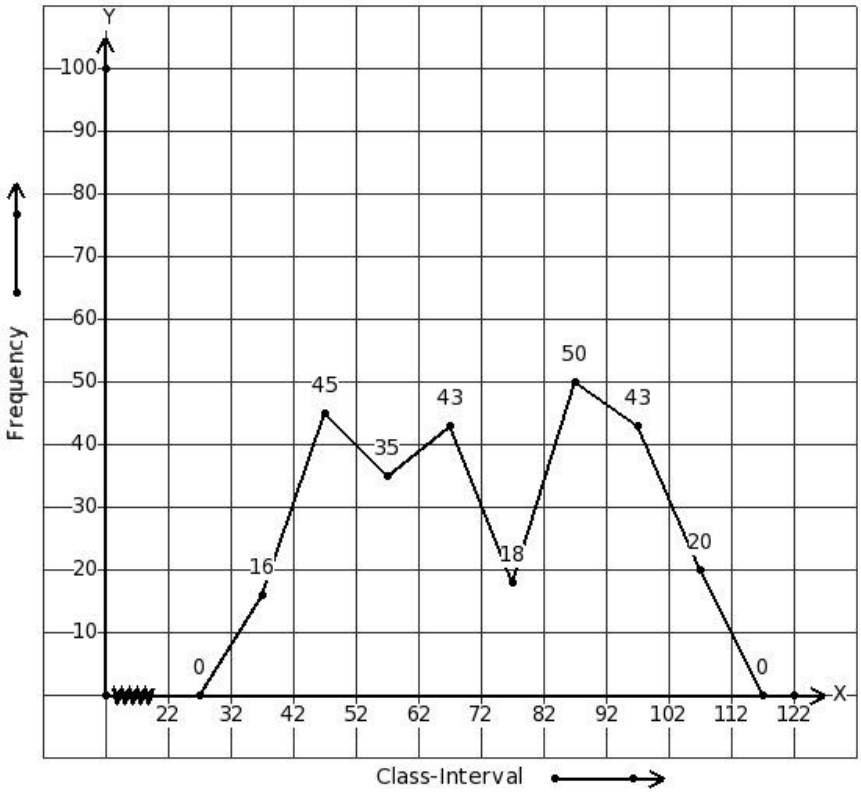
(iv)

Class-Interval	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74
Frequency	44	40	49	41	22	46	10

(v)

Class-Interval	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74
Frequency	44	40	49	45	22	46	10

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



(i)

Class-Interval	32 - 42	42 - 52	52 - 62	62 - 72	72 - 82	82 - 92	92 - 102	102 - 112
Frequency	16	20	35	43	18	50	43	45

(ii)

Class-Interval	32 - 42	42 - 52	52 - 62	62 - 72	72 - 82	82 - 92	92 - 102	102 - 112
Frequency	16	45	32	43	18	50	43	20

(iii)

Class-Interval	32 - 42	42 - 52	52 - 62	62 - 72	72 - 82	82 - 92	92 - 102	102 - 112
Frequency	16	45	43	35	18	50	43	20

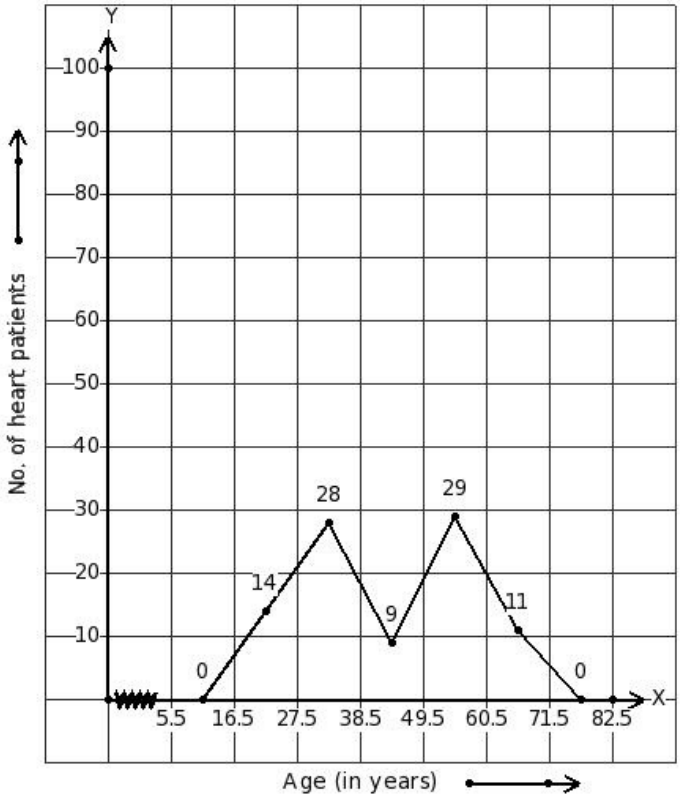
(iv)

Class-Interval	32 - 42	42 - 52	52 - 62	62 - 72	72 - 82	82 - 92	92 - 102	102 - 112
Frequency	16	45	35	43	18	50	43	20

(v)

Class-Interval	32 - 42	42 - 52	52 - 62	62 - 72	72 - 82	82 - 92	92 - 102	102 - 112
Frequency	16	45	35	43	21	50	43	20

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



(i)

Age (in years)	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
No. of heart patients	14	30	9	29	11

(ii)

Age (in years)	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
No. of heart patients	14	11	9	29	28

(iii)

Age (in years)	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
No. of heart patients	14	28	4	29	11

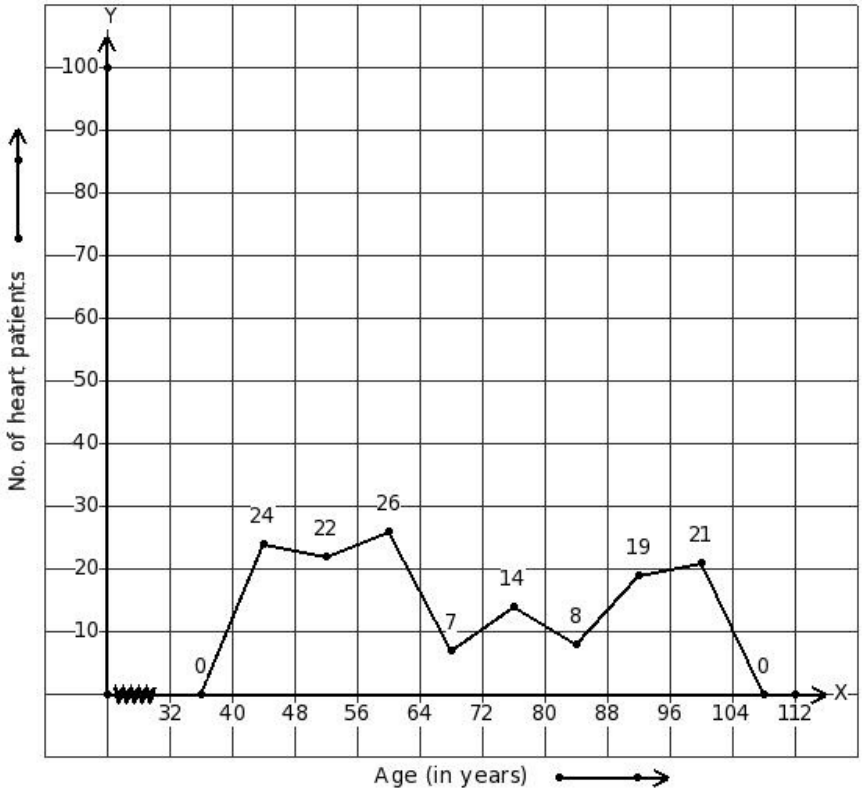
(iv)

Age (in years)	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
No. of heart patients	14	28	9	29	11

(v)

Age (in years)	17 - 27	28 - 38	39 - 49	50 - 60	61 - 71
No. of heart patients	14	9	28	29	11

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



(i)

Age (in years)	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88	88 - 96	96 - 104
No. of heart patients	24	22	26	7	19	8	19	21

(ii)

Age (in years)	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88	88 - 96	96 - 104
No. of heart patients	24	22	7	26	14	8	19	21

(iii)

Age (in years)	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88	88 - 96	96 - 104
No. of heart patients	24	21	26	7	14	8	19	22

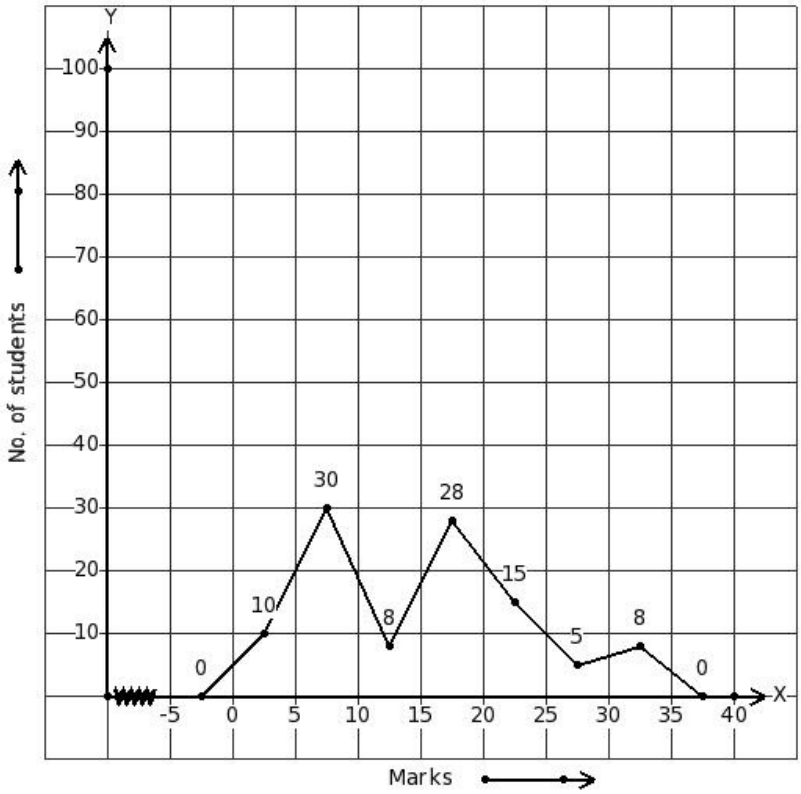
(iv)

Age (in years)	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88	88 - 96	96 - 104
No. of heart patients	24	22	26	7	14	8	19	21

(v)

Age (in years)	40 - 48	48 - 56	56 - 64	64 - 72	72 - 80	80 - 88	88 - 96	96 - 104
No. of heart patients	24	22	31	7	14	8	19	21

5. Marks obtained by 104 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	30 - 35
No. of students	10	8	30	28	15	5	8

(ii)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	10	30	8	28	15	5	8

(iii)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	10	30	12	28	15	5	8

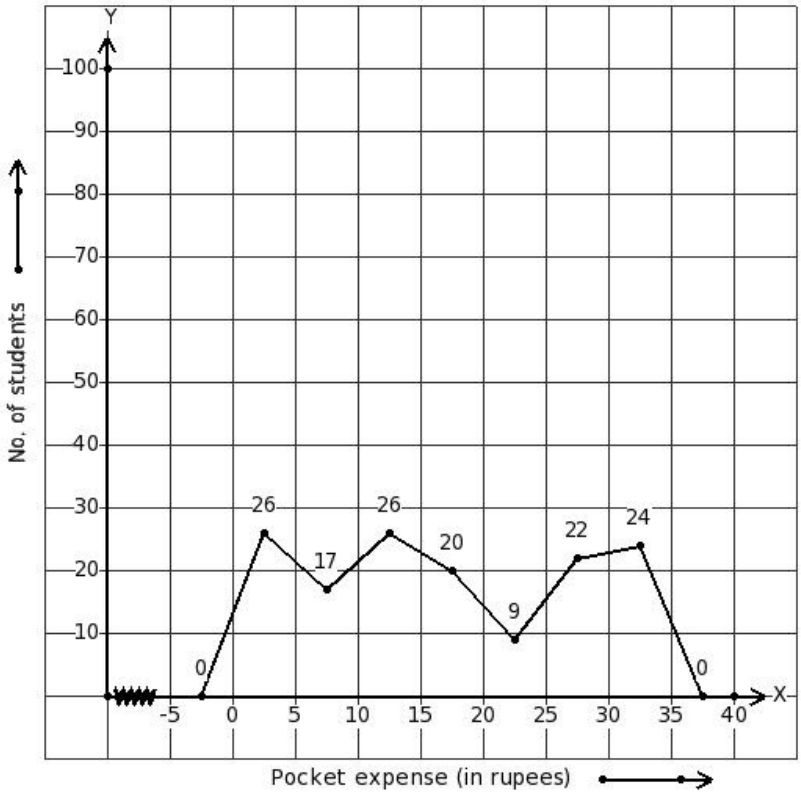
(iv)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	10	8	8	28	15	5	30

(v)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	10	30	8	33	15	5	8

6. The daily pocket expenses of 144 students in a school are given below.
Identify the class interval table for the given frequency polygon.



(i)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	26	26	17	20	9	22	24

(ii)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	26	17	23	20	9	22	24

(iii)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	26	24	26	20	9	22	17

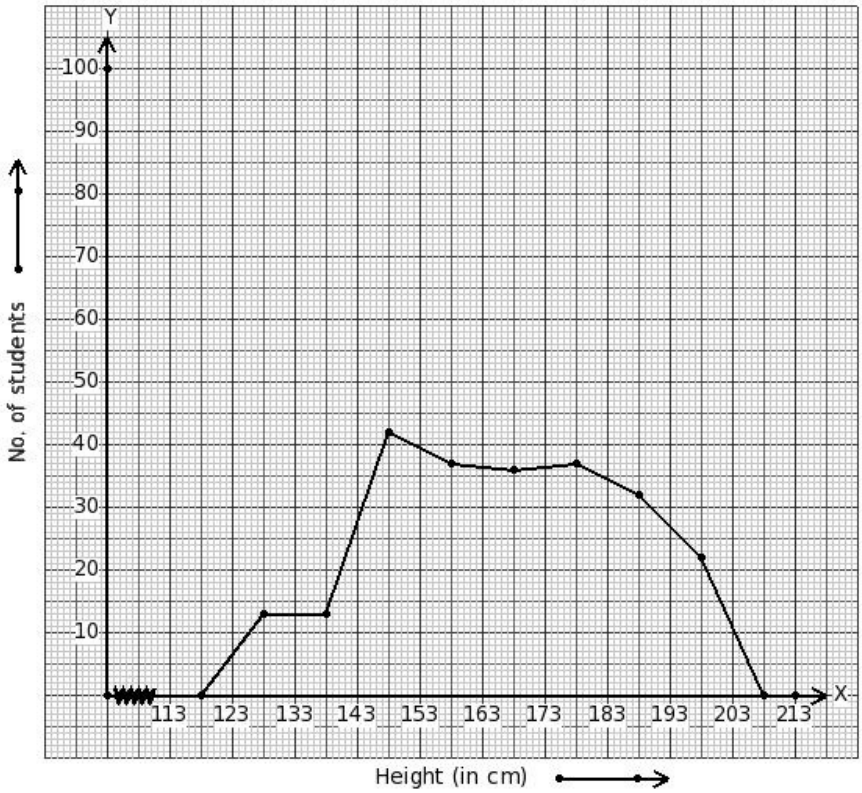
(iv)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	26	17	26	20	9	22	24

(v)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	26	17	26	23	9	22	24

7. Heights of 232 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	123 - 133	133 - 143	143 - 153	153 - 163	163 - 173	173 - 183	183 - 193	193 - 203
No. of students	13	13	42	37	36	37	32	22

(ii)

Height (in cm)	123 - 133	133 - 143	143 - 153	153 - 163	163 - 173	173 - 183	183 - 193	193 - 203
No. of students	13	22	42	37	36	37	32	13

(iii)

Height (in cm)	123 - 133	133 - 143	143 - 153	153 - 163	163 - 173	173 - 183	183 - 193	193 - 203
No. of students	13	13	37	37	36	37	32	22

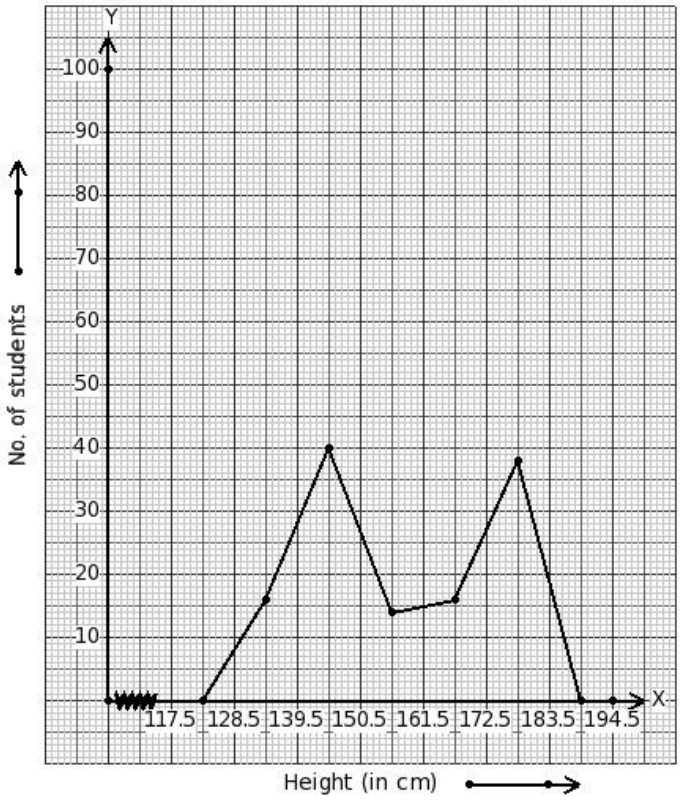
(iv)

Height (in cm)	123 - 133	133 - 143	143 - 153	153 - 163	163 - 173	173 - 183	183 - 193	193 - 203
No. of students	13	13	42	37	40	37	32	22

(v)

Height (in cm)	123 - 133	133 - 143	143 - 153	153 - 163	163 - 173	173 - 183	183 - 193	193 - 203
No. of students	13	13	37	42	36	37	32	22

8. Heights of 124 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183
No. of students	16	38	14	16	40

(ii)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183
No. of students	16	40	14	16	38

(iii)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183
No. of students	16	40	11	16	38

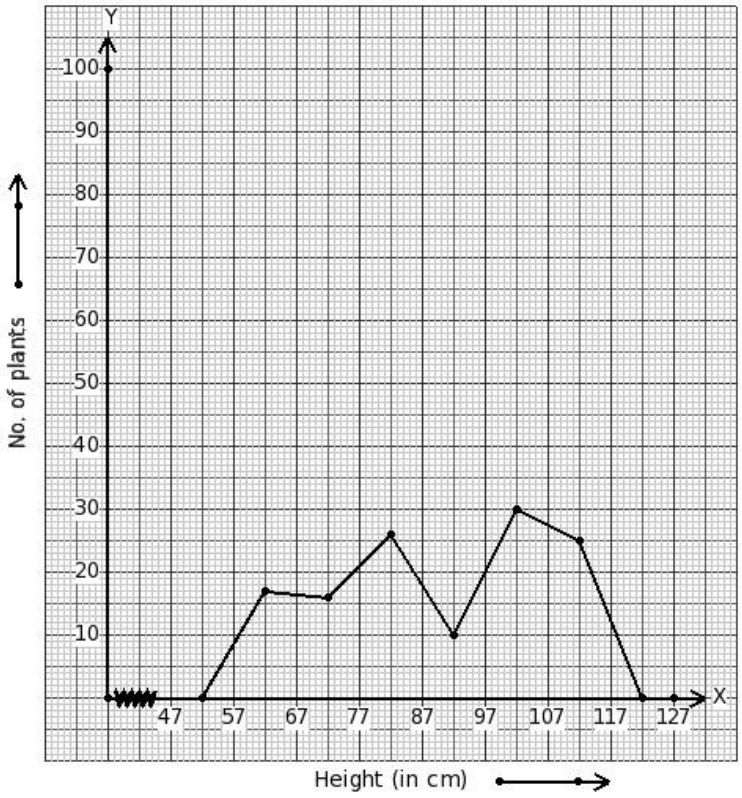
(iv)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183
No. of students	16	14	40	16	38

(v)

Height (in cm)	129 - 139	140 - 150	151 - 161	162 - 172	173 - 183
No. of students	16	44	14	16	38

9. Heights of 124 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	57 - 67	67 - 77	77 - 87	87 - 97	97 - 107	107 - 117
No. of plants	17	16	31	10	30	25

(ii)

Height (in cm)	57 - 67	67 - 77	77 - 87	87 - 97	97 - 107	107 - 117
No. of plants	17	16	26	5	30	25

(iii)

Height (in cm)	57 - 67	67 - 77	77 - 87	87 - 97	97 - 107	107 - 117
No. of plants	17	25	26	10	30	16

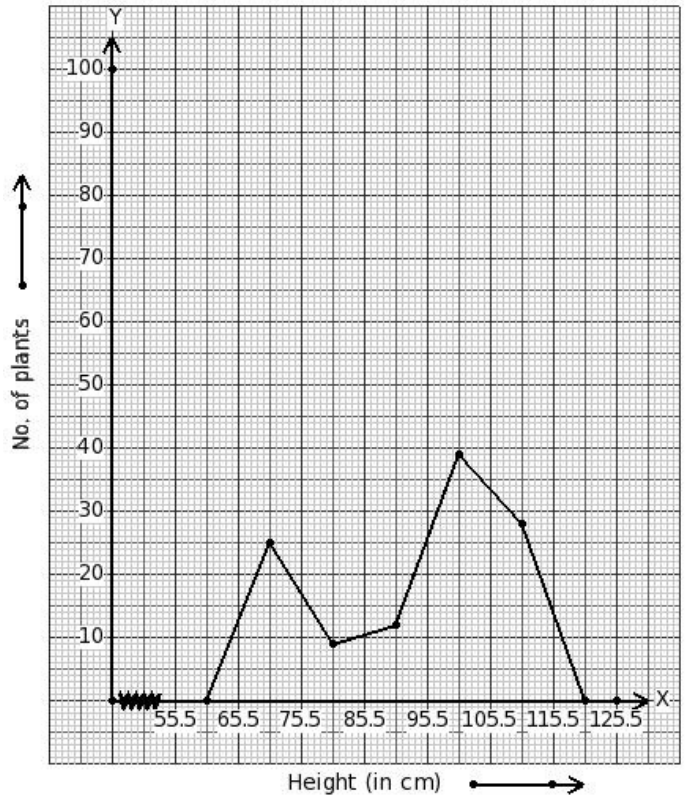
(iv)

Height (in cm)	57 - 67	67 - 77	77 - 87	87 - 97	97 - 107	107 - 117
No. of plants	17	16	26	10	30	25

(v)

Height (in cm)	57 - 67	67 - 77	77 - 87	87 - 97	97 - 107	107 - 117
No. of plants	17	26	16	10	30	25

10. Heights of 113 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	66 - 75	76 - 85	86 - 95	96 - 105	106 - 115
No. of plants	25	28	12	39	9

(ii)

Height (in cm)	66 - 75	76 - 85	86 - 95	96 - 105	106 - 115
No. of plants	25	12	9	39	28

(iii)

Height (in cm)	66 - 75	76 - 85	86 - 95	96 - 105	106 - 115
No. of plants	25	9	12	39	28

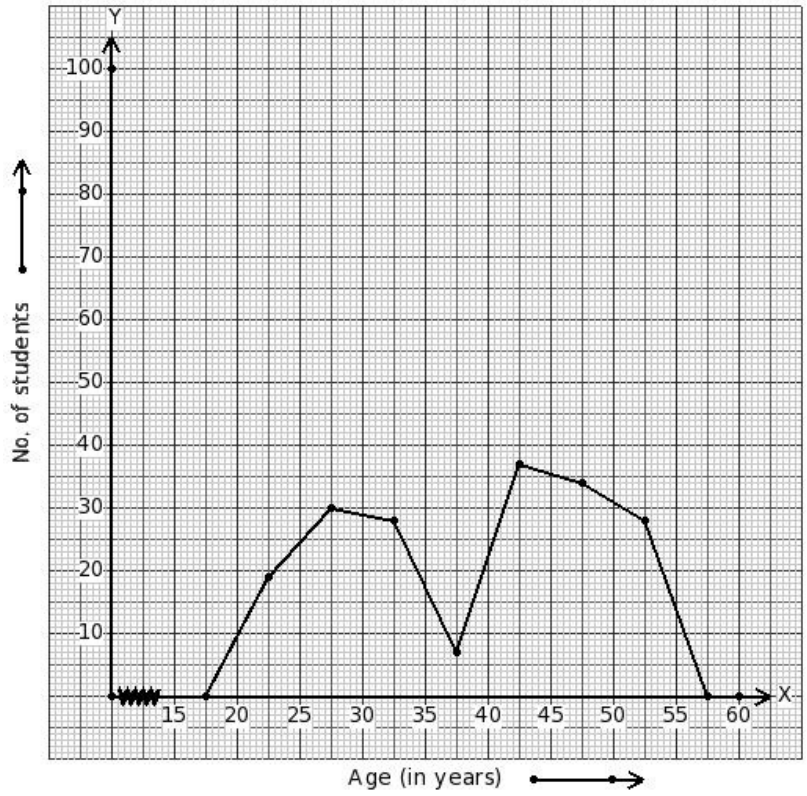
(iv)

Height (in cm)	66 - 75	76 - 85	86 - 95	96 - 105	106 - 115
No. of plants	25	4	12	39	28

(v)

Height (in cm)	66 - 75	76 - 85	86 - 95	96 - 105	106 - 115
No. of plants	25	9	9	39	28

11. Ages of 183 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	19	30	28	7	37	34	28

(ii)

Age (in years)	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	19	28	28	7	37	34	30

(iii)

Age (in years)	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	19	28	30	7	37	34	28

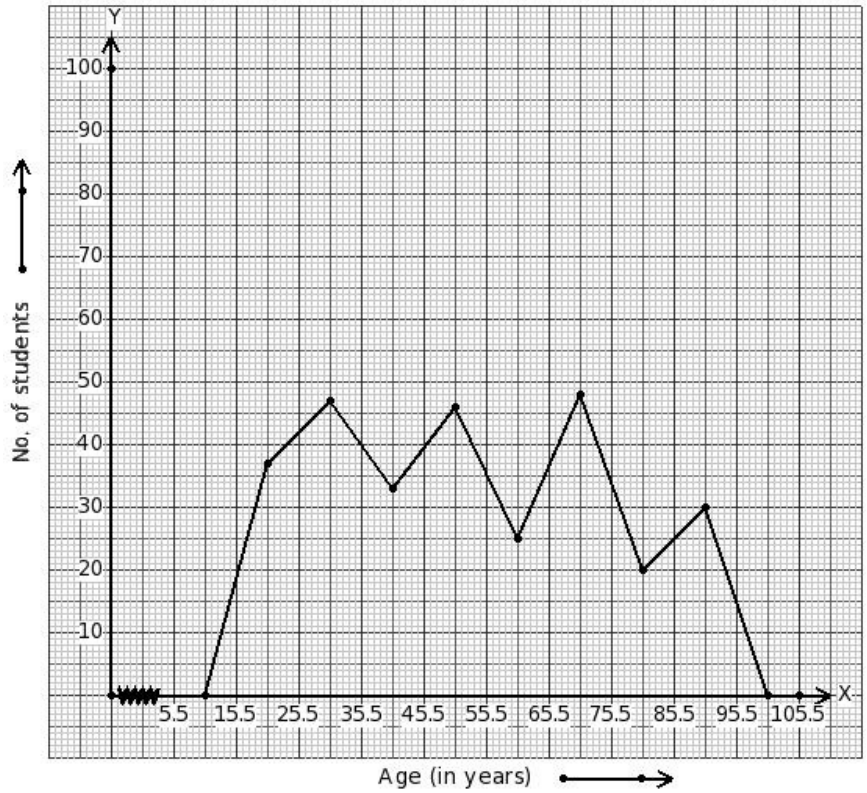
(iv)

Age (in years)	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	19	30	28	2	37	34	28

(v)

Age (in years)	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	19	30	31	7	37	34	28

12. Ages of 286 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of students	37	47	29	46	25	48	20	30

(ii)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of students	37	47	33	46	21	48	20	30

(iii)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of students	37	47	33	46	25	48	20	30

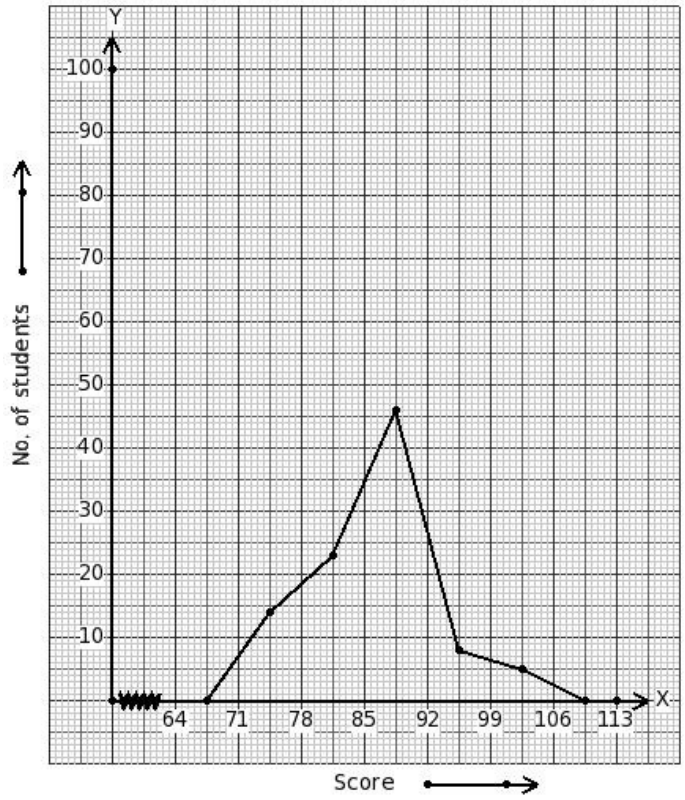
(iv)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of students	37	47	46	33	25	48	20	30

(v)

Age (in years)	16 - 25	26 - 35	36 - 45	46 - 55	56 - 65	66 - 75	76 - 85	86 - 95
No. of students	37	30	33	46	25	48	20	47

13. Scores of 96 students are given below. Identify the class interval table for the given frequency polygon.



(i)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	14	23	51	8	5

(ii)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	14	5	46	8	23

(iii)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	14	46	23	8	5

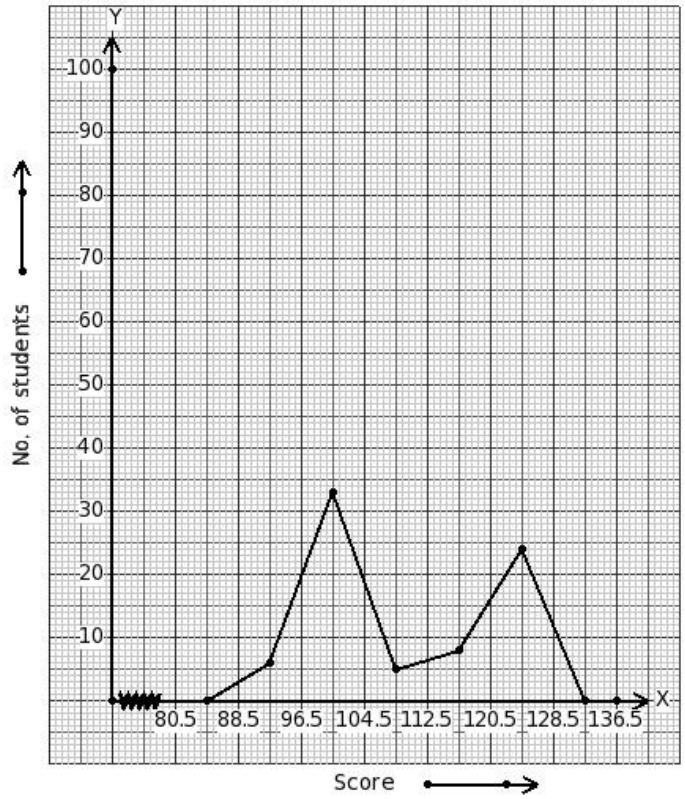
(iv)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	14	26	46	8	5

(v)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	14	23	46	8	5

14. Scores of 76 students are given below. Identify the class interval table for the given frequency polygon.



(i)

Score	89 - 96	97 - 104	105 - 112	113 - 120	121 - 128
No. of students	6	33	10	8	24

(ii)

Score	89 - 96	97 - 104	105 - 112	113 - 120	121 - 128
No. of students	6	24	5	8	33

(iii)

Score	89 - 96	97 - 104	105 - 112	113 - 120	121 - 128
No. of students	6	5	33	8	24

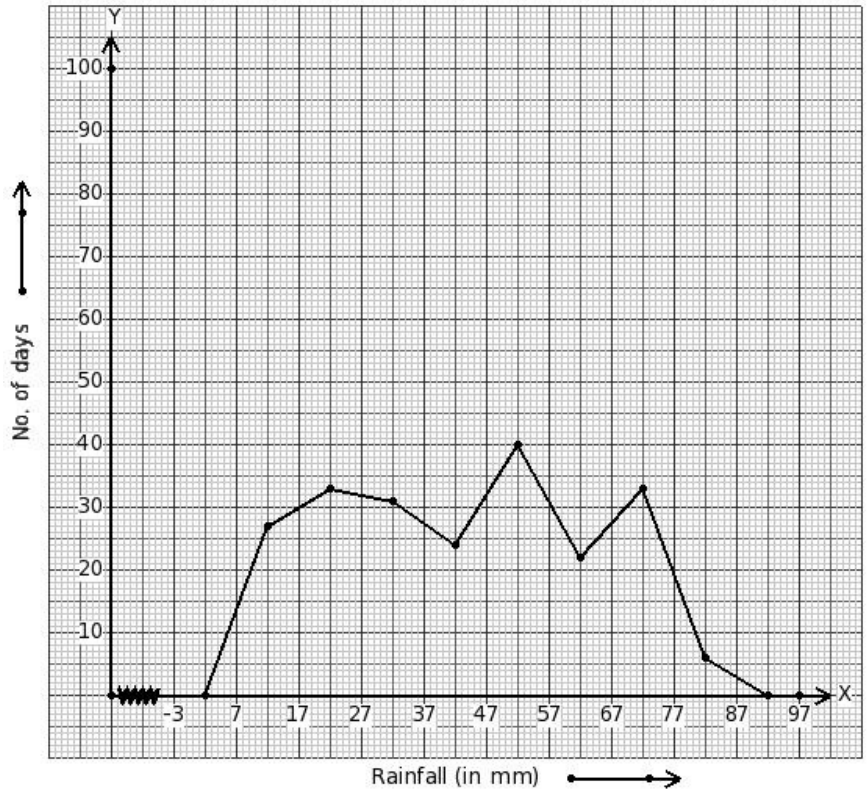
(iv)

Score	89 - 96	97 - 104	105 - 112	113 - 120	121 - 128
No. of students	6	33	5	8	24

(v)

Score	89 - 96	97 - 104	105 - 112	113 - 120	121 - 128
No. of students	6	31	5	8	24

15. Rainfall of 216 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	7 - 17	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87
No. of days	27	33	34	24	40	22	33	6

(ii)

Rainfall (in mm)	7 - 17	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87
No. of days	27	33	31	24	45	22	33	6

(iii)

Rainfall (in mm)	7 - 17	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87
No. of days	27	6	31	24	40	22	33	33

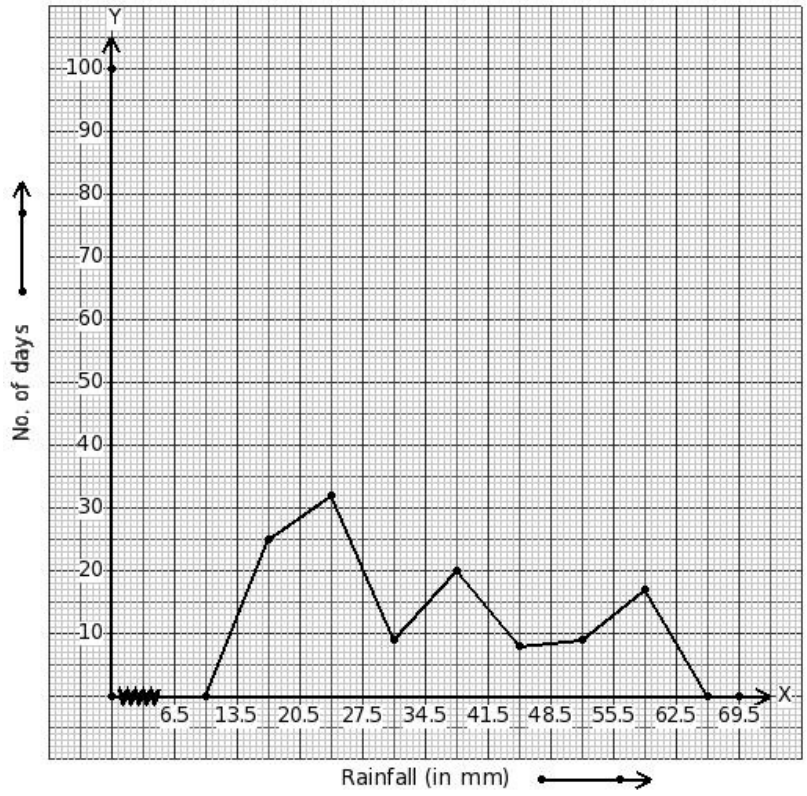
(iv)

Rainfall (in mm)	7 - 17	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87
No. of days	27	33	31	24	40	22	33	6

(v)

Rainfall (in mm)	7 - 17	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87
No. of days	27	33	24	31	40	22	33	6

16. Rainfall of 120 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	14 - 20	21 - 27	28 - 34	35 - 41	42 - 48	49 - 55	56 - 62
No. of days	25	32	9	20	8	9	17

(ii)

Rainfall (in mm)	14 - 20	21 - 27	28 - 34	35 - 41	42 - 48	49 - 55	56 - 62
No. of days	25	9	32	20	8	9	17

(iii)

Rainfall (in mm)	14 - 20	21 - 27	28 - 34	35 - 41	42 - 48	49 - 55	56 - 62
No. of days	25	32	12	20	8	9	17

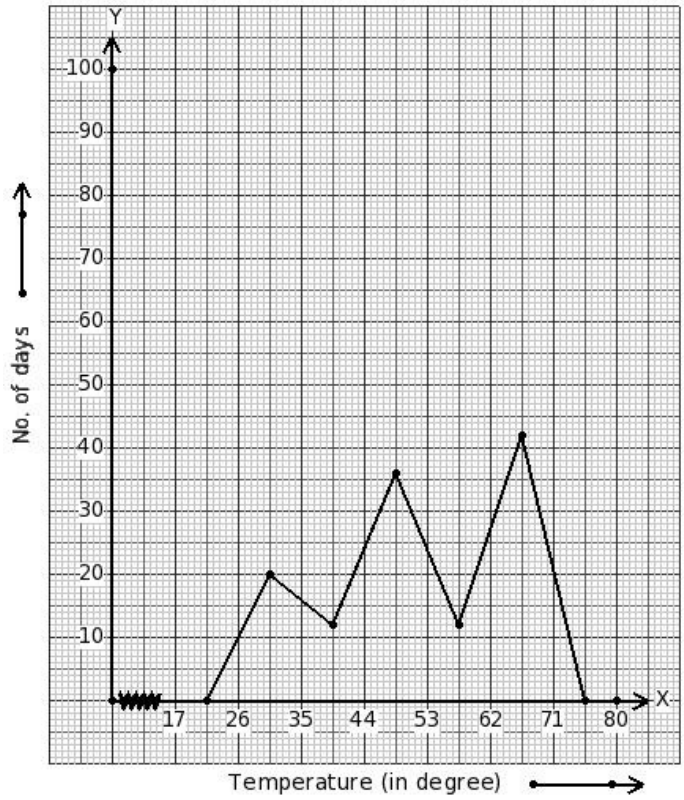
(iv)

Rainfall (in mm)	14 - 20	21 - 27	28 - 34	35 - 41	42 - 48	49 - 55	56 - 62
No. of days	25	32	9	16	8	9	17

(v)

Rainfall (in mm)	14 - 20	21 - 27	28 - 34	35 - 41	42 - 48	49 - 55	56 - 62
No. of days	25	17	9	20	8	9	32

17. Temperatures of 122 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	26 - 35	35 - 44	44 - 53	53 - 62	62 - 71
No. of days	20	12	36	12	42

(ii)

Temperature (in degree)	26 - 35	35 - 44	44 - 53	53 - 62	62 - 71
No. of days	20	14	36	12	42

(iii)

Temperature (in degree)	26 - 35	35 - 44	44 - 53	53 - 62	62 - 71
No. of days	20	42	36	12	12

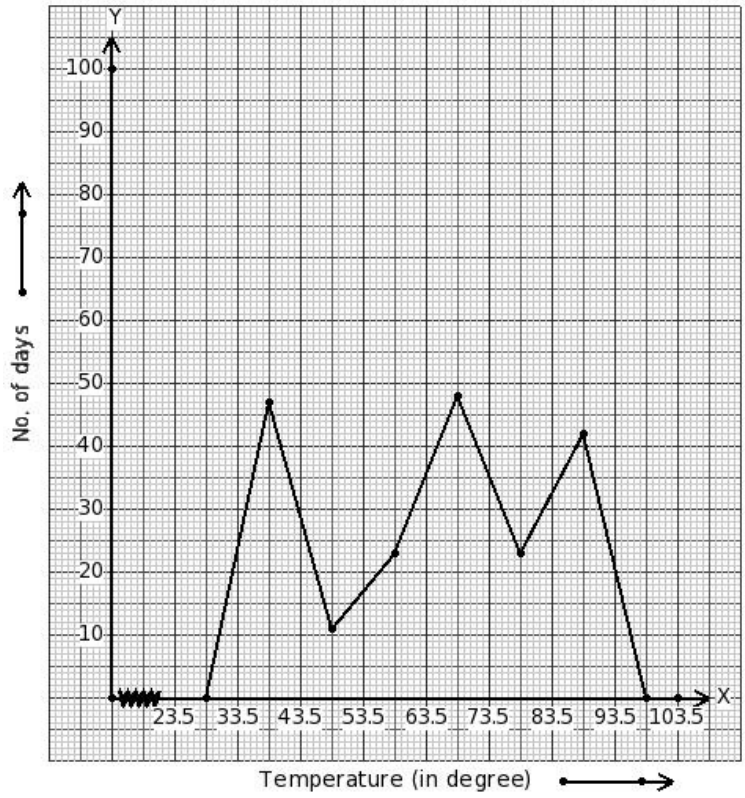
(iv)

Temperature (in degree)	26 - 35	35 - 44	44 - 53	53 - 62	62 - 71
No. of days	20	12	32	12	42

(v)

Temperature (in degree)	26 - 35	35 - 44	44 - 53	53 - 62	62 - 71
No. of days	20	36	12	12	42

18. Temperatures of 194 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	34 - 43	44 - 53	54 - 63	64 - 73	74 - 83	84 - 93
No. of days	47	11	23	48	23	42

(ii)

Temperature (in degree)	34 - 43	44 - 53	54 - 63	64 - 73	74 - 83	84 - 93
No. of days	47	42	23	48	23	11

(iii)

Temperature (in degree)	34 - 43	44 - 53	54 - 63	64 - 73	74 - 83	84 - 93
No. of days	47	11	18	48	23	42

(iv)

Temperature (in degree)	34 - 43	44 - 53	54 - 63	64 - 73	74 - 83	84 - 93
No. of days	47	11	23	50	23	42

(v)

Temperature (in degree)	34 - 43	44 - 53	54 - 63	64 - 73	74 - 83	84 - 93
No. of days	47	23	11	48	23	42

19. Weights of 256 students (in kg) are given below. Identify the class interval table for the given frequency polygon.

(i)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68	68 - 73	73 - 78	78 - 83
No. of students	42	27	17	40	39	34	31	26

(ii)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68	68 - 73	73 - 78	78 - 83
No. of students	42	27	21	40	39	34	31	26

(iii)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68	68 - 73	73 - 78	78 - 83
No. of students	42	27	40	17	39	34	31	26

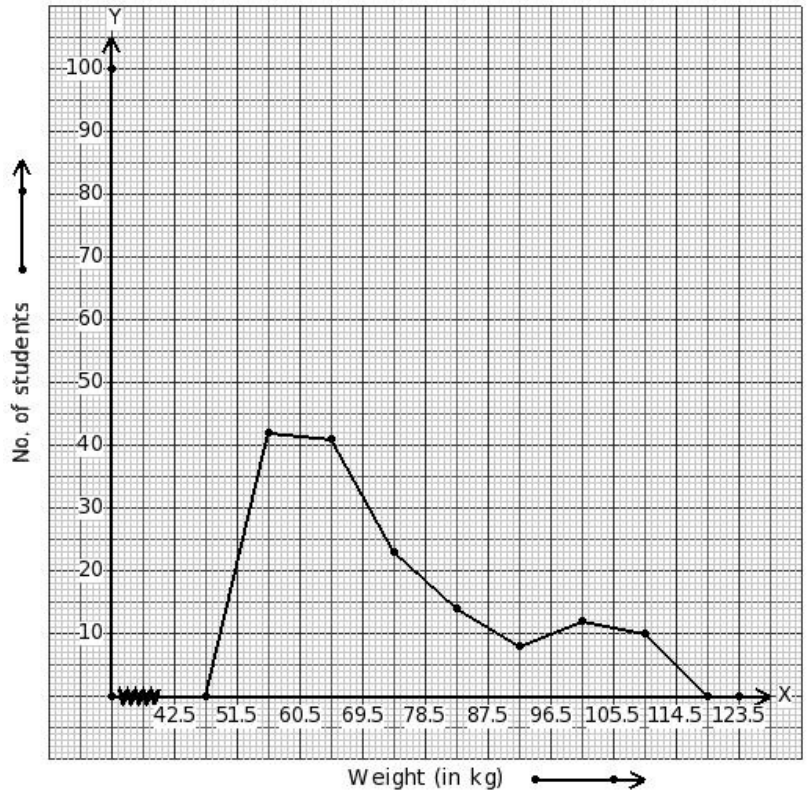
(iv)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68	68 - 73	73 - 78	78 - 83
No. of students	42	26	17	40	39	34	31	27

(v)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68	68 - 73	73 - 78	78 - 83
No. of students	42	27	17	40	44	34	31	26

20. Weights of 150 students (in kg) are given below. Identify the class interval table for the given frequency polygon.



(i)

Weight (in kg)	52 - 60	61 - 69	70 - 78	79 - 87	88 - 96	97 - 105	106 - 114
No. of students	42	41	23	14	8	12	10

(ii)

Weight (in kg)	52 - 60	61 - 69	70 - 78	79 - 87	88 - 96	97 - 105	106 - 114
No. of students	42	41	23	18	8	12	10

(iii)

Weight (in kg)	52 - 60	61 - 69	70 - 78	79 - 87	88 - 96	97 - 105	106 - 114
No. of students	42	41	26	14	8	12	10

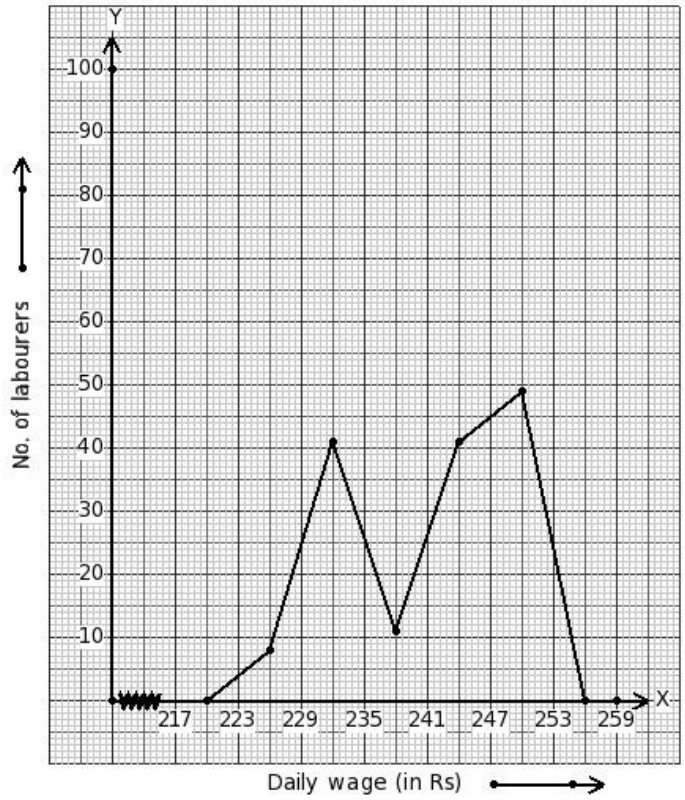
(iv)

Weight (in kg)	52 - 60	61 - 69	70 - 78	79 - 87	88 - 96	97 - 105	106 - 114
No. of students	42	23	41	14	8	12	10

(v)

Weight (in kg)	52 - 60	61 - 69	70 - 78	79 - 87	88 - 96	97 - 105	106 - 114
No. of students	42	10	23	14	8	12	41

21. Daily wages of 150 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	223 - 229	229 - 235	235 - 241	241 - 247	247 - 253
No. of labourers	8	41	11	41	49

(ii)

Daily wage (in Rs)	223 - 229	229 - 235	235 - 241	241 - 247	247 - 253
No. of labourers	8	11	41	41	49

(iii)

Daily wage (in Rs)	223 - 229	229 - 235	235 - 241	241 - 247	247 - 253
No. of labourers	8	41	9	41	49

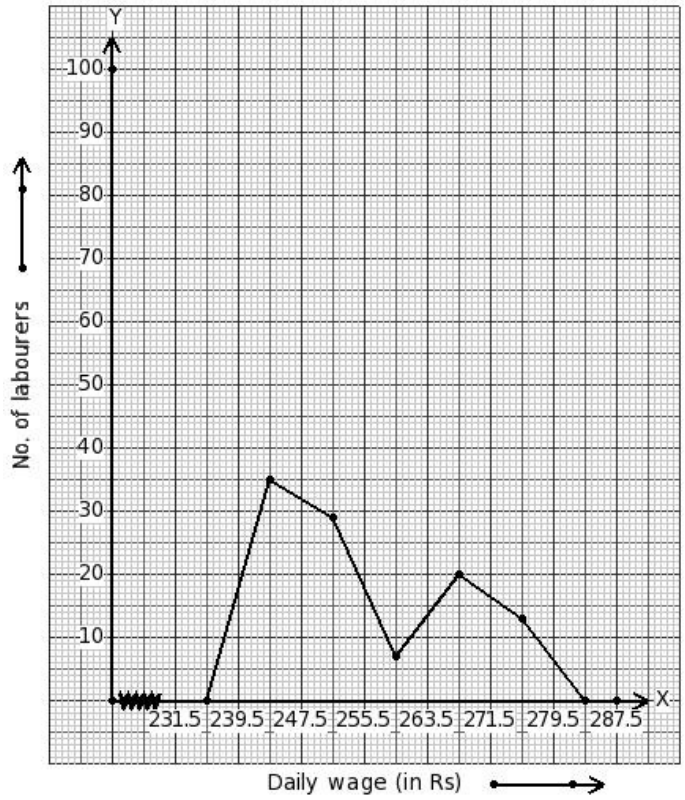
(iv)

Daily wage (in Rs)	223 - 229	229 - 235	235 - 241	241 - 247	247 - 253
No. of labourers	8	44	11	41	49

(v)

Daily wage (in Rs)	223 - 229	229 - 235	235 - 241	241 - 247	247 - 253
No. of labourers	8	49	11	41	41

22. Daily wages of 104 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	240 - 247	248 - 255	256 - 263	264 - 271	272 - 279
No. of labourers	35	7	29	20	13

(ii)

Daily wage (in Rs)	240 - 247	248 - 255	256 - 263	264 - 271	272 - 279
No. of labourers	35	13	7	20	29

(iii)

Daily wage (in Rs)	240 - 247	248 - 255	256 - 263	264 - 271	272 - 279
No. of labourers	35	29	7	20	13

(iv)

Daily wage (in Rs)	240 - 247	248 - 255	256 - 263	264 - 271	272 - 279
No. of labourers	35	29	10	20	13

(v)

Daily wage (in Rs)	240 - 247	248 - 255	256 - 263	264 - 271	272 - 279
No. of labourers	35	33	7	20	13

Assignment Key

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