EduSahara™ Assignment

Name : Frequency Polygon

Chapter : Graphical Representation of Statistical Data

Grade : ICSE Grade IX

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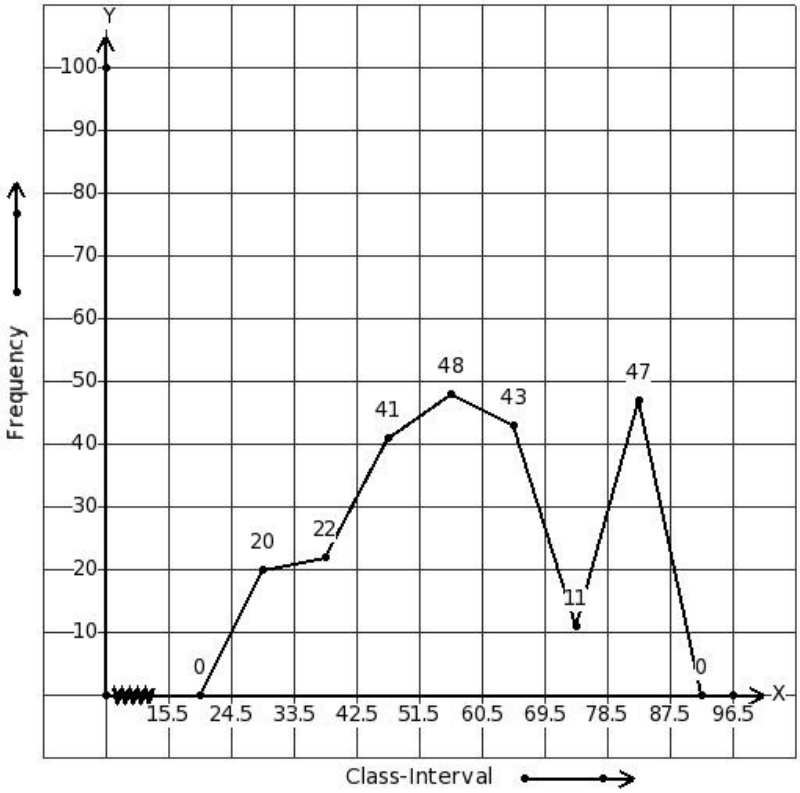
1. Identify the class interval table for the given frequency polygon.



(i)

Class-Interval	25 - 33	34 - 42	43 - 51	52 - 60	61 - 69	70 - 78	79 - 87
Frequency	20	22	39	48	43	11	47

(ii)

Class-Interval	25 - 33	34 - 42	43 - 51	52 - 60	61 - 69	70 - 78	79 - 87
Frequency	20	47	41	48	43	11	22

(iii)

Class-Interval	25 - 33	34 - 42	43 - 51	52 - 60	61 - 69	70 - 78	79 - 87
Frequency	20	22	41	48	43	11	47

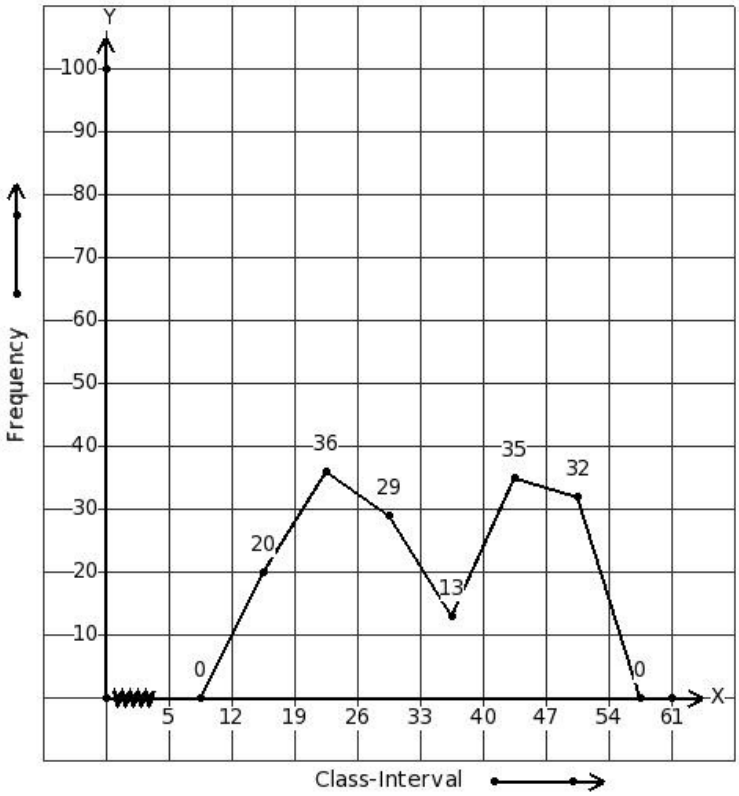
(iv)

Class-Interval	25 - 33	34 - 42	43 - 51	52 - 60	61 - 69	70 - 78	79 - 87
Frequency	20	22	41	51	43	11	47

(v)

Class-Interval	25 - 33	34 - 42	43 - 51	52 - 60	61 - 69	70 - 78	79 - 87
Frequency	20	41	22	48	43	11	47

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



(i)

Class-Interval	12 - 19	19 - 26	26 - 33	33 - 40	40 - 47	47 - 54
Frequency	20	29	36	13	35	32

(ii)

Class-Interval	12 - 19	19 - 26	26 - 33	33 - 40	40 - 47	47 - 54
Frequency	20	36	29	9	35	32

(iii)

Class-Interval	12 - 19	19 - 26	26 - 33	33 - 40	40 - 47	47 - 54
Frequency	20	36	29	13	35	32

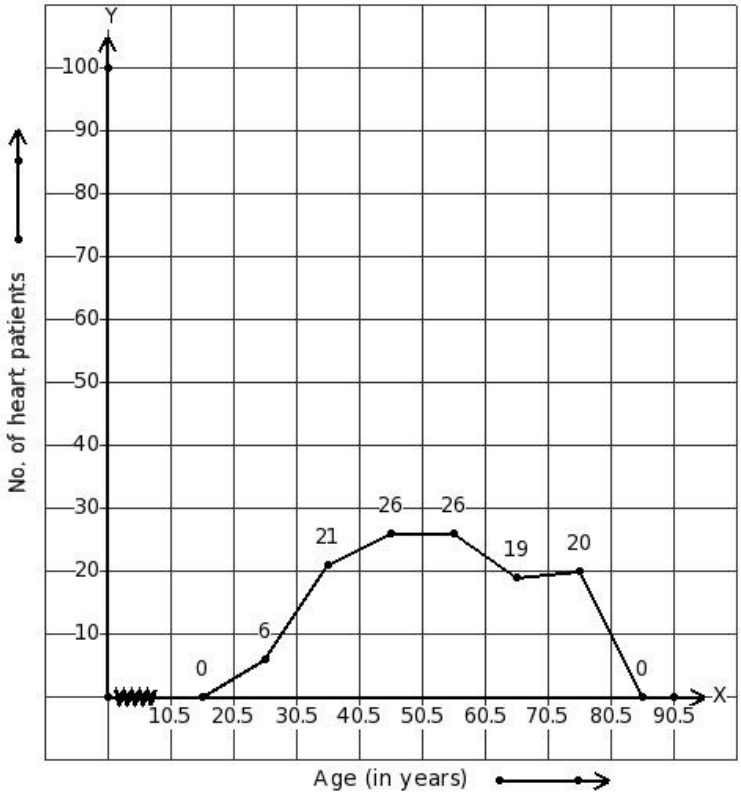
(iv)

Class-Interval	12 - 19	19 - 26	26 - 33	33 - 40	40 - 47	47 - 54
Frequency	20	36	32	13	35	32

(v)

Class-Interval	12 - 19	19 - 26	26 - 33	33 - 40	40 - 47	47 - 54
Frequency	20	32	29	13	35	36

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



(i)

Age (in years)	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80
No. of heart patients	6	21	31	26	19	20

(ii)

Age (in years)	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80
No. of heart patients	6	21	26	22	19	20

(iii)

Age (in years)	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80
No. of heart patients	6	21	26	26	19	20

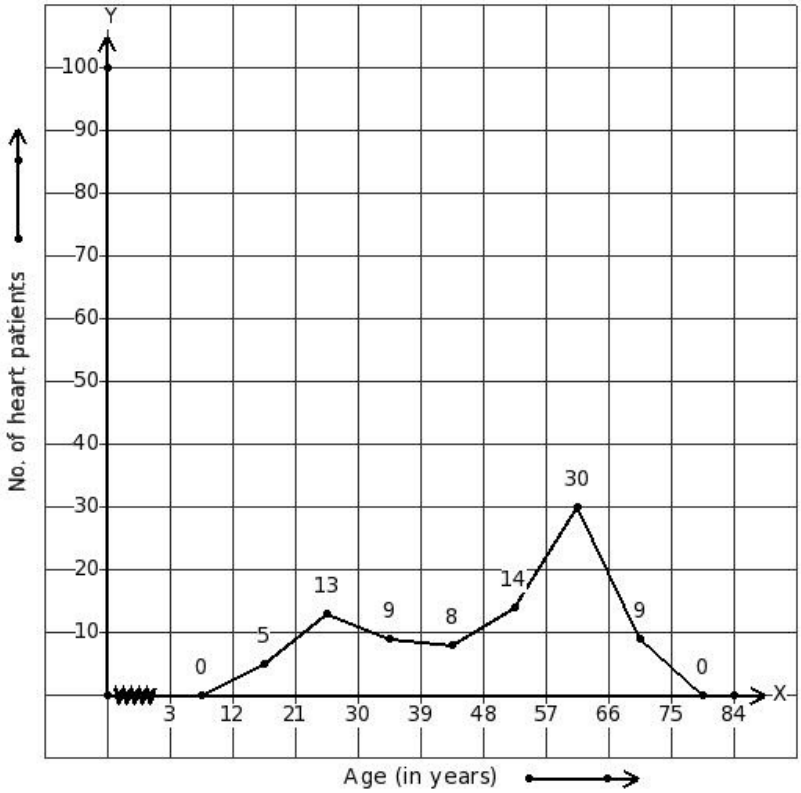
(iv)

Age (in years)	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80
No. of heart patients	6	26	21	26	19	20

(v)

Age (in years)	21 - 30	31 - 40	41 - 50	51 - 60	61 - 70	71 - 80
No. of heart patients	6	20	26	26	19	21

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



(i)

Age (in years)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75
No. of heart patients	5	13	9	10	14	30	9

(ii)

Age (in years)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75
No. of heart patients	5	13	9	8	14	30	9

(iii)

Age (in years)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75
No. of heart patients	5	13	13	8	14	30	9

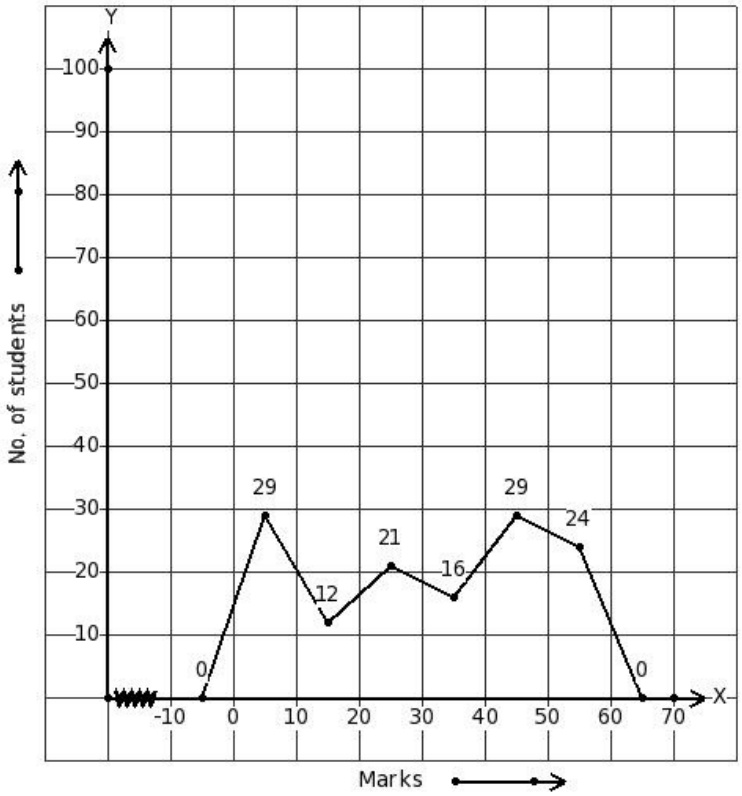
(iv)

Age (in years)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75
No. of heart patients	5	9	13	8	14	30	9

(v)

Age (in years)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75
No. of heart patients	5	9	9	8	14	30	13

5. Marks obtained by 131 students of a class in an examination are given below.
Identify the class interval table for the given frequency polygon.



(i)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	29	12	21	16	29	24

(ii)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	29	24	21	16	29	12

(iii)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	29	21	12	16	29	24

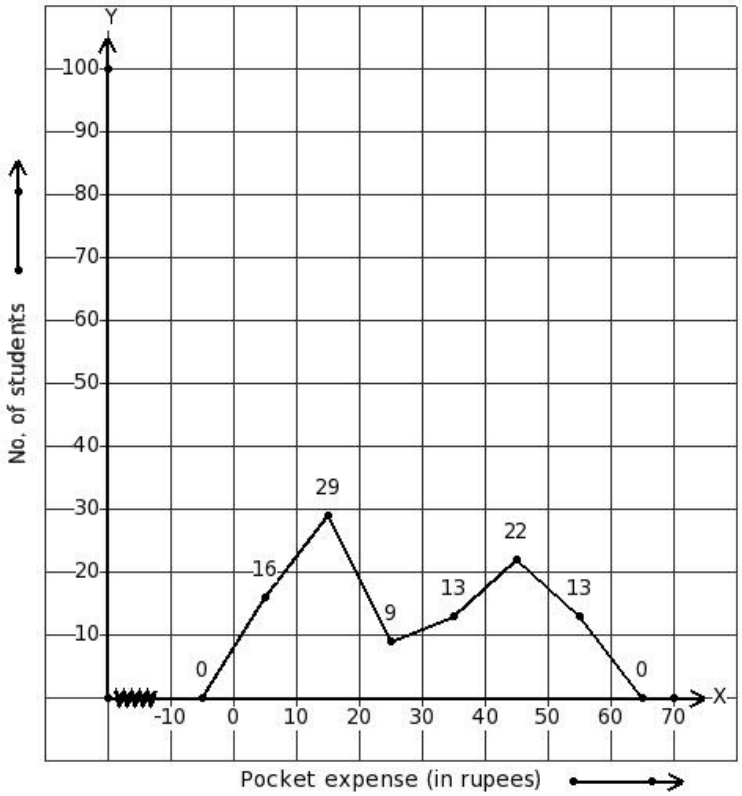
(iv)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	29	12	21	13	29	24

(v)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	29	12	23	16	29	24

6. The daily pocket expenses of 102 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
No. of students	16	9	29	13	22	13

(ii)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	16	29	9	13	22	13

(iii)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	16	29	5	13	22	13

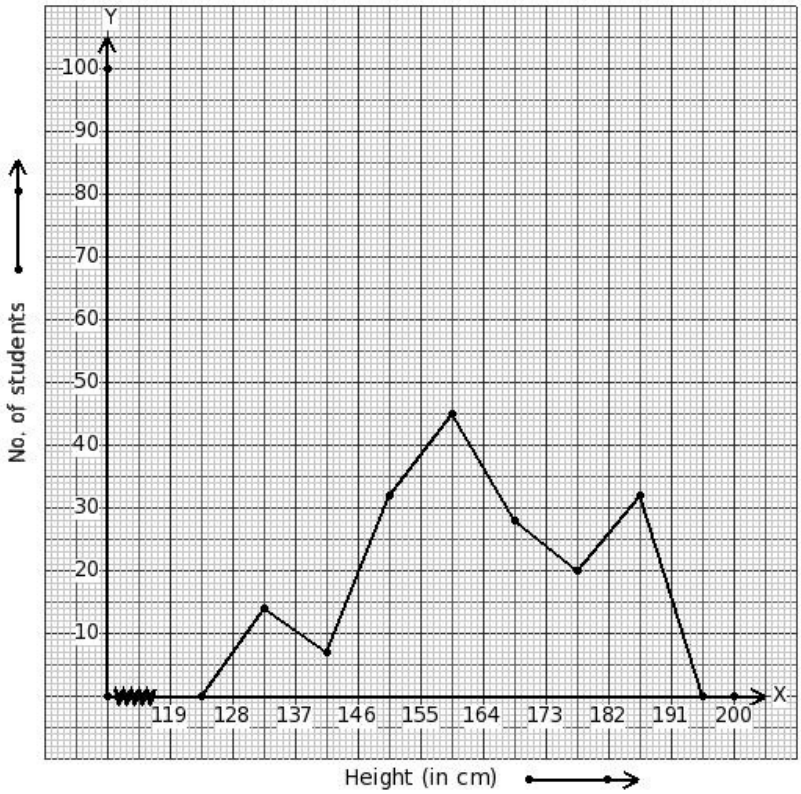
(iv)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	16	29	9	17	22	13

(v)

Pocket expense (in rupees)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	16	13	9	13	22	29

7. Heights of 178 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	128 - 137	137 - 146	146 - 155	155 - 164	164 - 173	173 - 182	182 - 191
No. of students	14	7	32	48	28	20	32

(ii)

Height (in cm)	128 - 137	137 - 146	146 - 155	155 - 164	164 - 173	173 - 182	182 - 191
No. of students	14	7	29	45	28	20	32

(iii)

Height (in cm)	128 - 137	137 - 146	146 - 155	155 - 164	164 - 173	173 - 182	182 - 191
No. of students	14	7	32	45	28	20	32

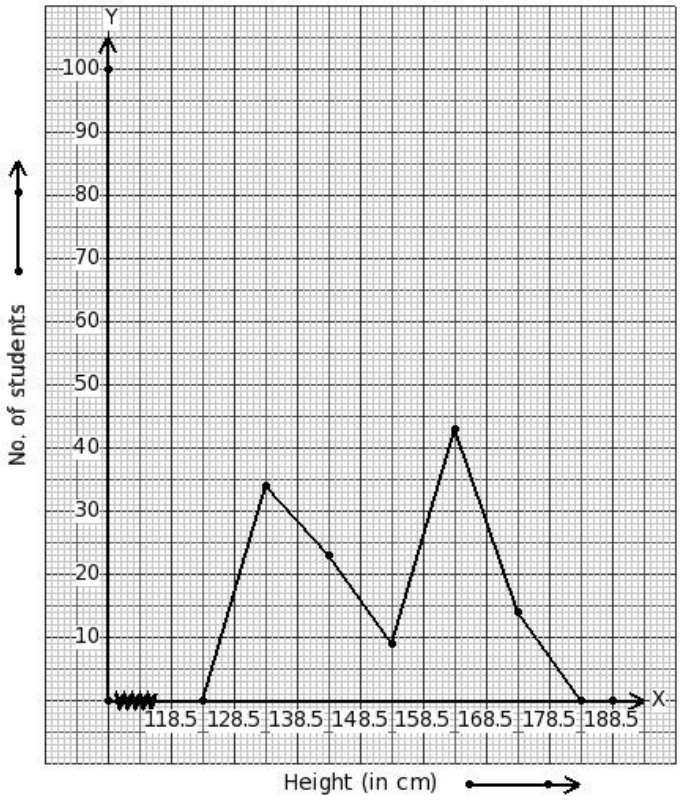
(iv)

Height (in cm)	128 - 137	137 - 146	146 - 155	155 - 164	164 - 173	173 - 182	182 - 191
No. of students	14	32	7	45	28	20	32

(v)

Height (in cm)	128 - 137	137 - 146	146 - 155	155 - 164	164 - 173	173 - 182	182 - 191
No. of students	14	32	32	45	28	20	7

8. Heights of 123 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	129 - 138	139 - 148	149 - 158	159 - 168	169 - 178
No. of students	34	23	4	43	14

(ii)

Height (in cm)	129 - 138	139 - 148	149 - 158	159 - 168	169 - 178
No. of students	34	9	23	43	14

(iii)

Height (in cm)	129 - 138	139 - 148	149 - 158	159 - 168	169 - 178
No. of students	34	23	9	43	14

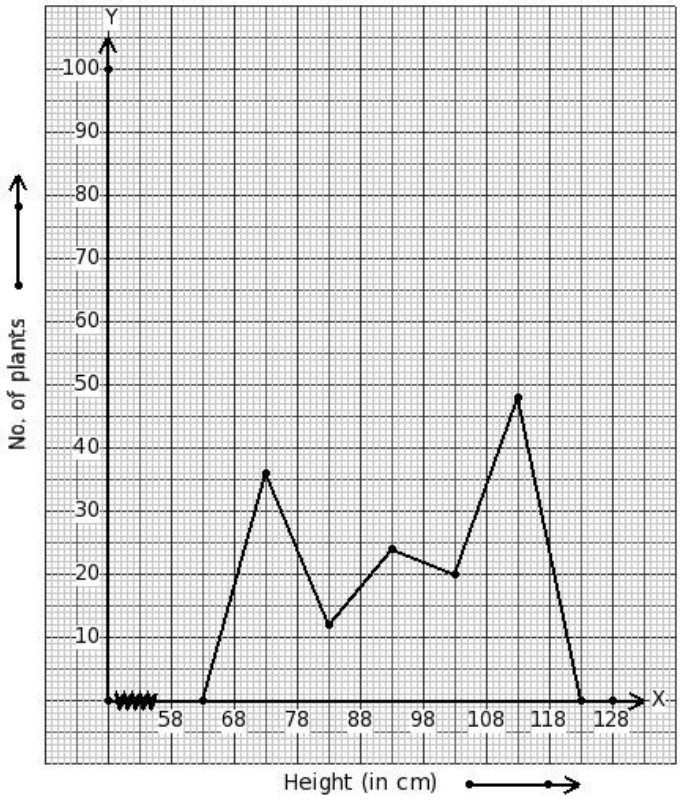
(iv)

Height (in cm)	129 - 138	139 - 148	149 - 158	159 - 168	169 - 178
No. of students	34	14	9	43	23

(v)

Height (in cm)	129 - 138	139 - 148	149 - 158	159 - 168	169 - 178
No. of students	34	19	9	43	14

9. Heights of 140 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
No. of plants	36	24	12	20	48

(ii)

Height (in cm)	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
No. of plants	36	12	24	20	48

(iii)

Height (in cm)	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
No. of plants	36	48	24	20	12

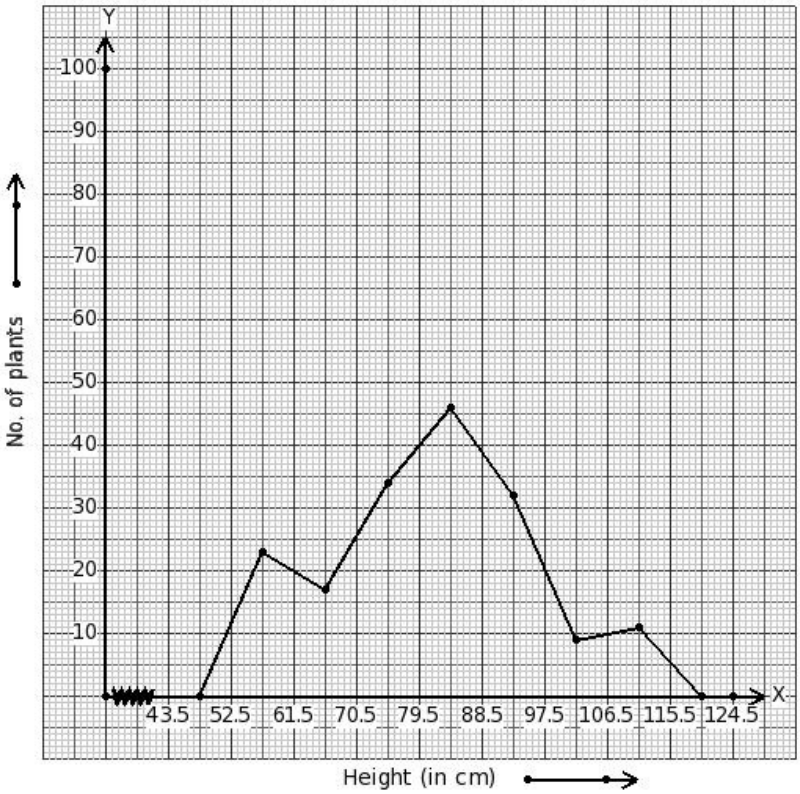
(iv)

Height (in cm)	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
No. of plants	36	10	24	20	48

(v)

Height (in cm)	68 - 78	78 - 88	88 - 98	98 - 108	108 - 118
No. of plants	36	12	27	20	48

10. Heights of 172 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	53 - 61	62 - 70	71 - 79	80 - 88	89 - 97	98 - 106	107 - 115
No. of plants	23	11	34	46	32	9	17

(ii)

Height (in cm)	53 - 61	62 - 70	71 - 79	80 - 88	89 - 97	98 - 106	107 - 115
No. of plants	23	17	34	46	32	9	11

(iii)

Height (in cm)	53 - 61	62 - 70	71 - 79	80 - 88	89 - 97	98 - 106	107 - 115
No. of plants	23	17	29	46	32	9	11

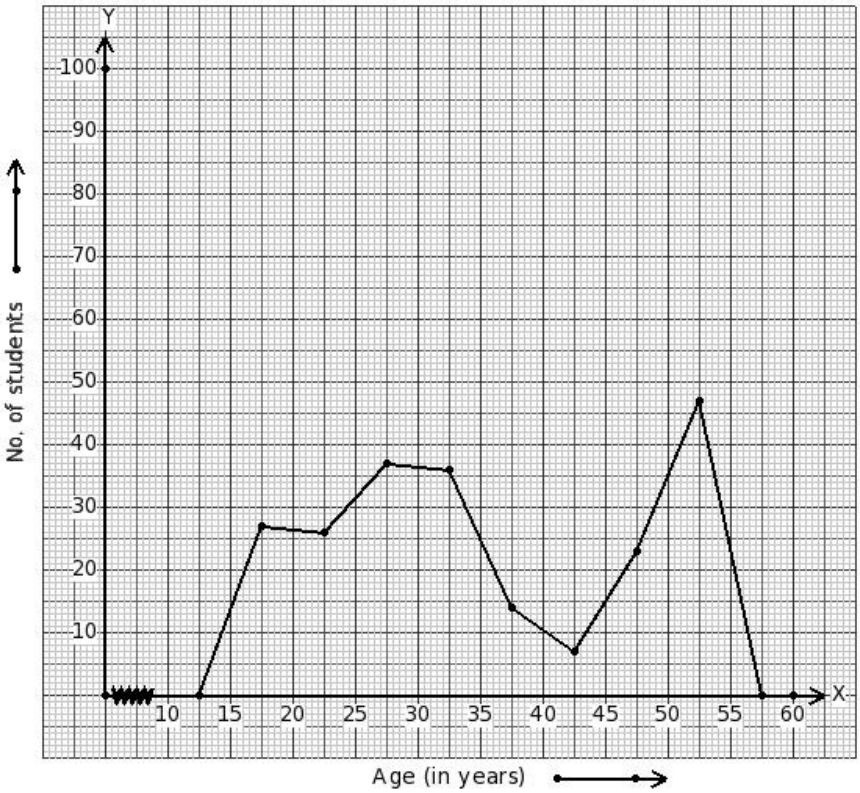
(iv)

Height (in cm)	53 - 61	62 - 70	71 - 79	80 - 88	89 - 97	98 - 106	107 - 115
No. of plants	23	34	17	46	32	9	11

(v)

Height (in cm)	53 - 61	62 - 70	71 - 79	80 - 88	89 - 97	98 - 106	107 - 115
No. of plants	23	17	34	50	32	9	11

11. Ages of 217 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	27	26	37	36	16	7	23	47

(ii)

Age (in years)	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	27	26	37	36	14	7	23	47

(iii)

Age (in years)	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	27	26	39	36	14	7	23	47

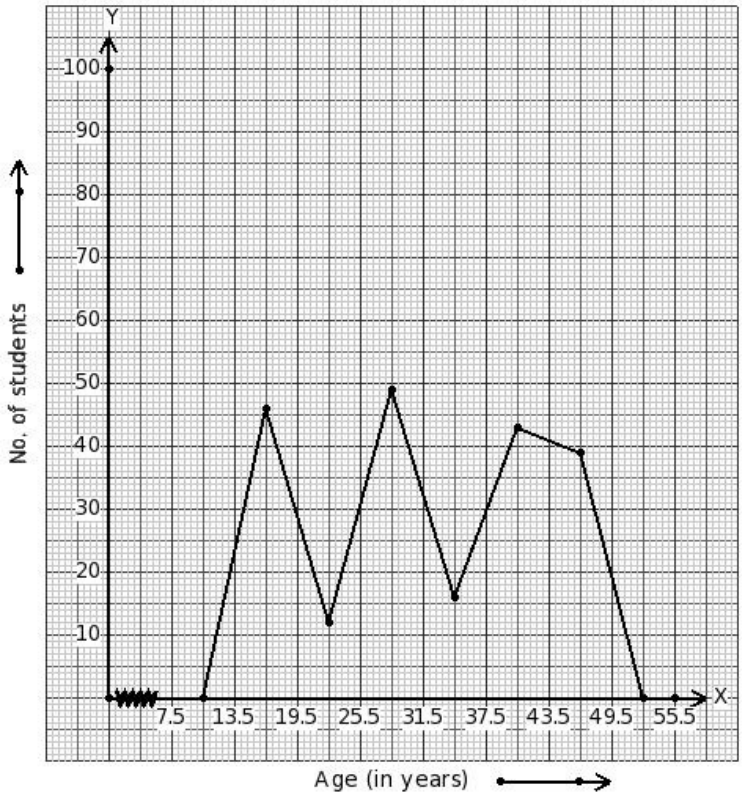
(iv)

Age (in years)	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	27	26	36	37	14	7	23	47

(v)

Age (in years)	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55
No. of students	27	47	37	36	14	7	23	26

12. Ages of 205 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	14 - 19	20 - 25	26 - 31	32 - 37	38 - 43	44 - 49
No. of students	46	49	12	16	43	39

(ii)

Age (in years)	14 - 19	20 - 25	26 - 31	32 - 37	38 - 43	44 - 49
No. of students	46	12	49	11	43	39

(iii)

Age (in years)	14 - 19	20 - 25	26 - 31	32 - 37	38 - 43	44 - 49
No. of students	46	12	49	16	43	39

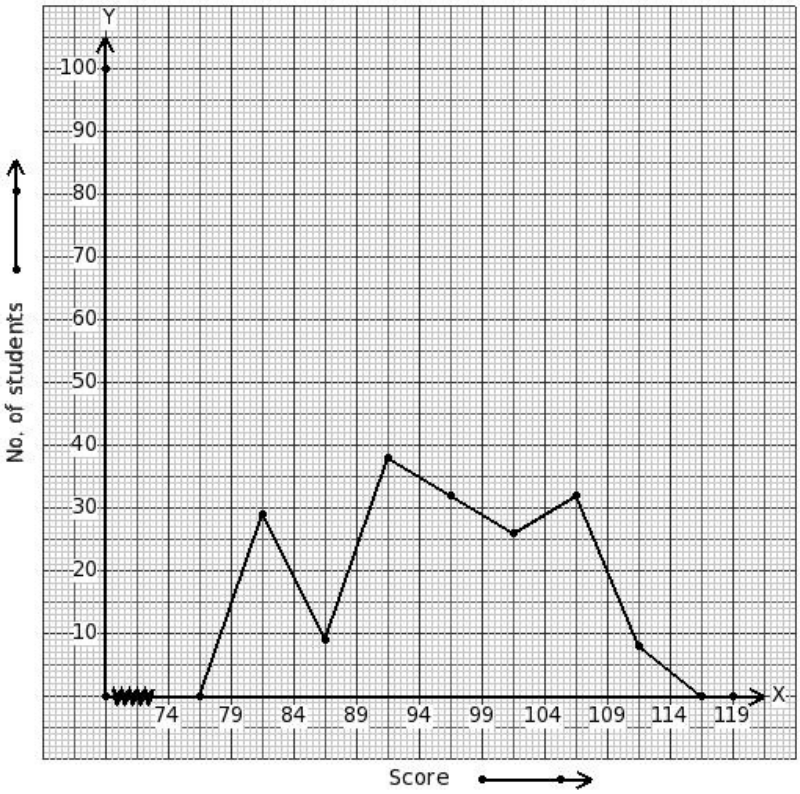
(iv)

Age (in years)	14 - 19	20 - 25	26 - 31	32 - 37	38 - 43	44 - 49
No. of students	46	12	52	16	43	39

(v)

Age (in years)	14 - 19	20 - 25	26 - 31	32 - 37	38 - 43	44 - 49
No. of students	46	39	49	16	43	12

13. Scores of 174 students are given below. Identify the class interval table for the given frequency polygon.



(i)

Score	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114
No. of students	29	9	34	32	26	32	8

(ii)

Score	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114
No. of students	29	9	38	32	26	32	8

(iii)

Score	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114
No. of students	29	9	38	28	26	32	8

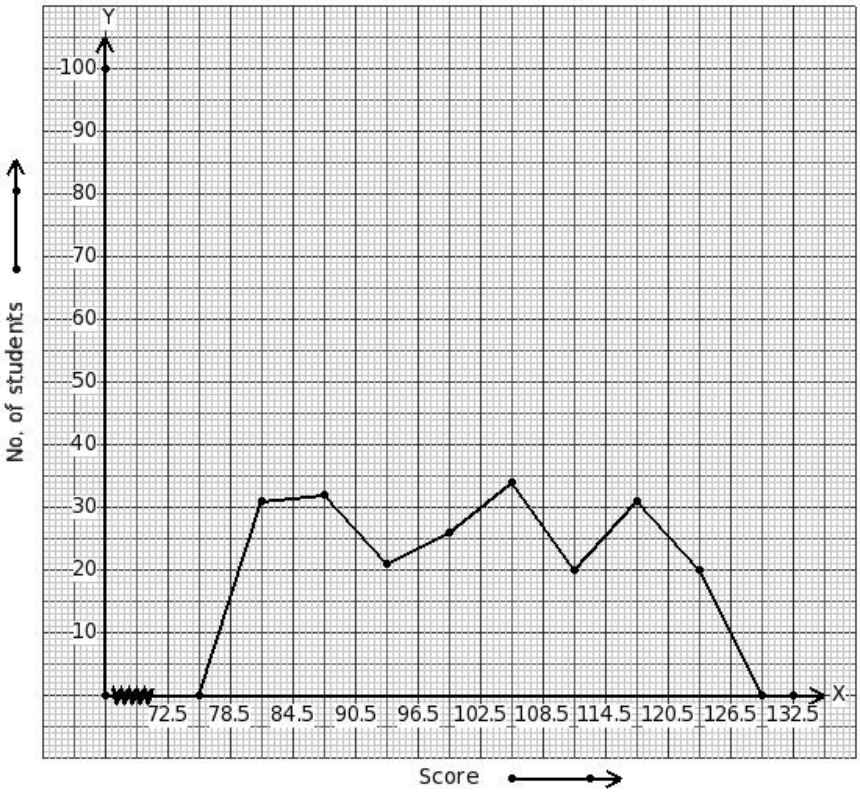
(iv)

Score	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114
No. of students	29	8	38	32	26	32	9

(v)

Score	79 - 84	84 - 89	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114
No. of students	29	38	9	32	26	32	8

14. Scores of 215 students are given below. Identify the class interval table for the given frequency polygon.



(i)

Score	79 - 84	85 - 90	91 - 96	97 - 102	103 - 108	109 - 114	115 - 120	121 - 126
No. of students	31	32	21	26	34	20	31	20

(ii)

Score	79 - 84	85 - 90	91 - 96	97 - 102	103 - 108	109 - 114	115 - 120	121 - 126
No. of students	31	32	26	21	34	20	31	20

(iii)

Score	79 - 84	85 - 90	91 - 96	97 - 102	103 - 108	109 - 114	115 - 120	121 - 126
No. of students	31	32	19	26	34	20	31	20

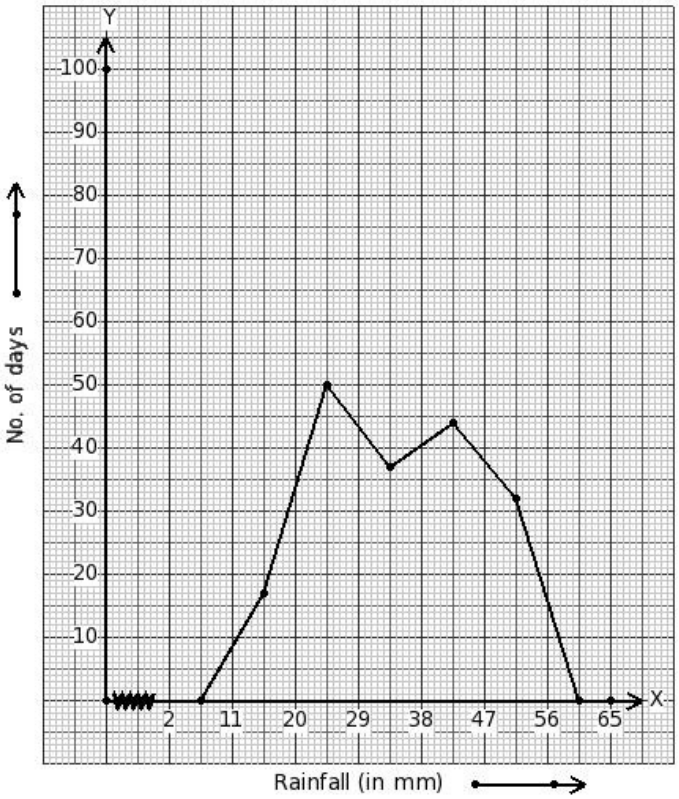
(iv)

Score	79 - 84	85 - 90	91 - 96	97 - 102	103 - 108	109 - 114	115 - 120	121 - 126
No. of students	31	20	21	26	34	20	31	32

(v)

Score	79 - 84	85 - 90	91 - 96	97 - 102	103 - 108	109 - 114	115 - 120	121 - 126
No. of students	31	32	21	26	37	20	31	20

15. Rainfall of 180 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	11 - 20	20 - 29	29 - 38	38 - 47	47 - 56
No. of days	17	37	50	44	32

(ii)

Rainfall (in mm)	11 - 20	20 - 29	29 - 38	38 - 47	47 - 56
No. of days	17	50	42	44	32

(iii)

Rainfall (in mm)	11 - 20	20 - 29	29 - 38	38 - 47	47 - 56
No. of days	17	45	37	44	32

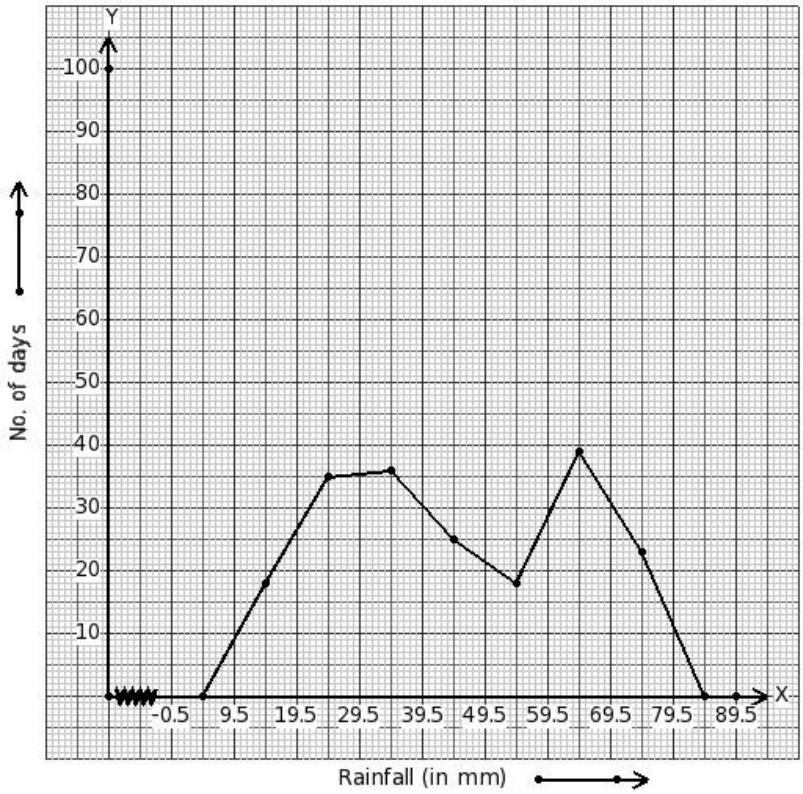
(iv)

Rainfall (in mm)	11 - 20	20 - 29	29 - 38	38 - 47	47 - 56
No. of days	17	50	37	44	32

(v)

Rainfall (in mm)	11 - 20	20 - 29	29 - 38	38 - 47	47 - 56
No. of days	17	32	37	44	50

16. Rainfall of 194 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of days	18	35	32	25	18	39	23

(ii)

Rainfall (in mm)	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of days	18	35	36	27	18	39	23

(iii)

Rainfall (in mm)	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of days	18	36	35	25	18	39	23

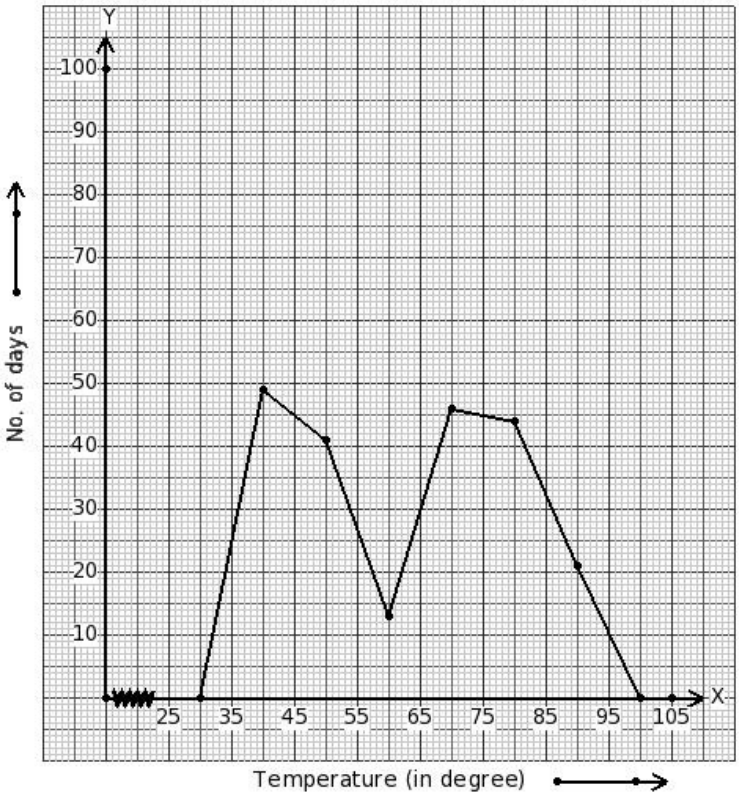
(iv)

Rainfall (in mm)	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of days	18	35	36	25	18	39	23

(v)

Rainfall (in mm)	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of days	18	23	36	25	18	39	35

17. Temperatures of 214 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	35 - 45	45 - 55	55 - 65	65 - 75	75 - 85	85 - 95
No. of days	49	41	16	46	44	21

(ii)

Temperature (in degree)	35 - 45	45 - 55	55 - 65	65 - 75	75 - 85	85 - 95
No. of days	49	21	13	46	44	41

(iii)

Temperature (in degree)	35 - 45	45 - 55	55 - 65	65 - 75	75 - 85	85 - 95
No. of days	49	41	13	42	44	21

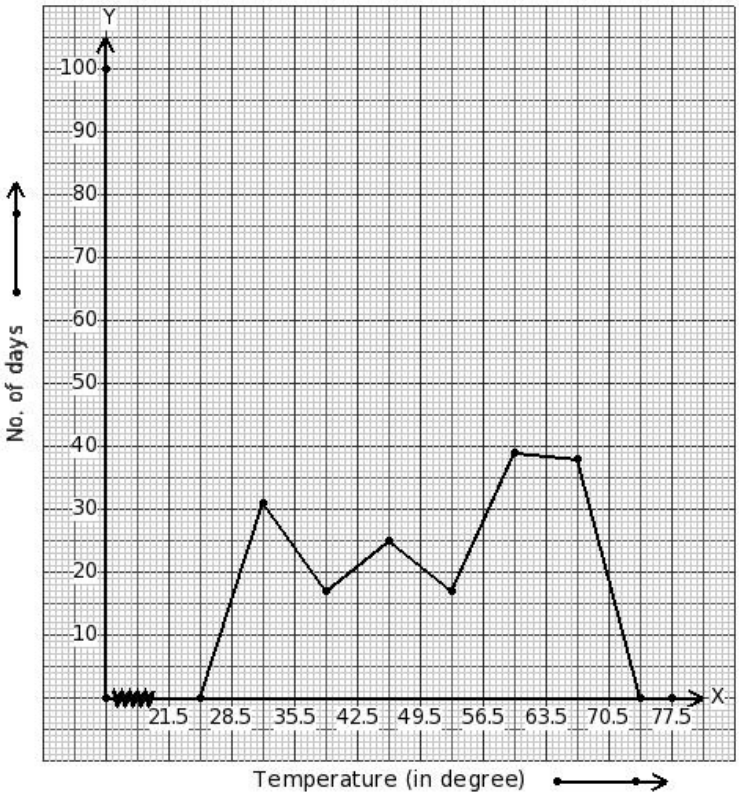
(iv)

Temperature (in degree)	35 - 45	45 - 55	55 - 65	65 - 75	75 - 85	85 - 95
No. of days	49	13	41	46	44	21

(v)

Temperature (in degree)	35 - 45	45 - 55	55 - 65	65 - 75	75 - 85	85 - 95
No. of days	49	41	13	46	44	21

18. Temperatures of 167 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	31	25	17	17	39	38

(ii)

Temperature (in degree)	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	31	17	27	17	39	38

(iii)

Temperature (in degree)	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	31	17	25	22	39	38

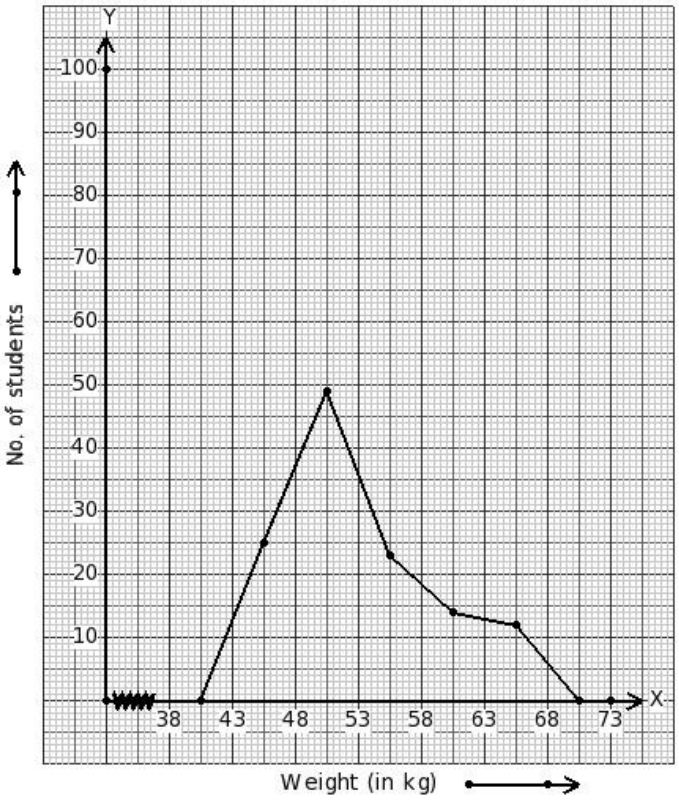
(iv)

Temperature (in degree)	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	31	17	25	17	39	38

(v)

Temperature (in degree)	29 - 35	36 - 42	43 - 49	50 - 56	57 - 63	64 - 70
No. of days	31	38	25	17	39	17

19. Weights of 123 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
No. of students	25	46	23	14	12

(ii)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	25	49	23	14	12

(iii)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	25	23	49	14	12

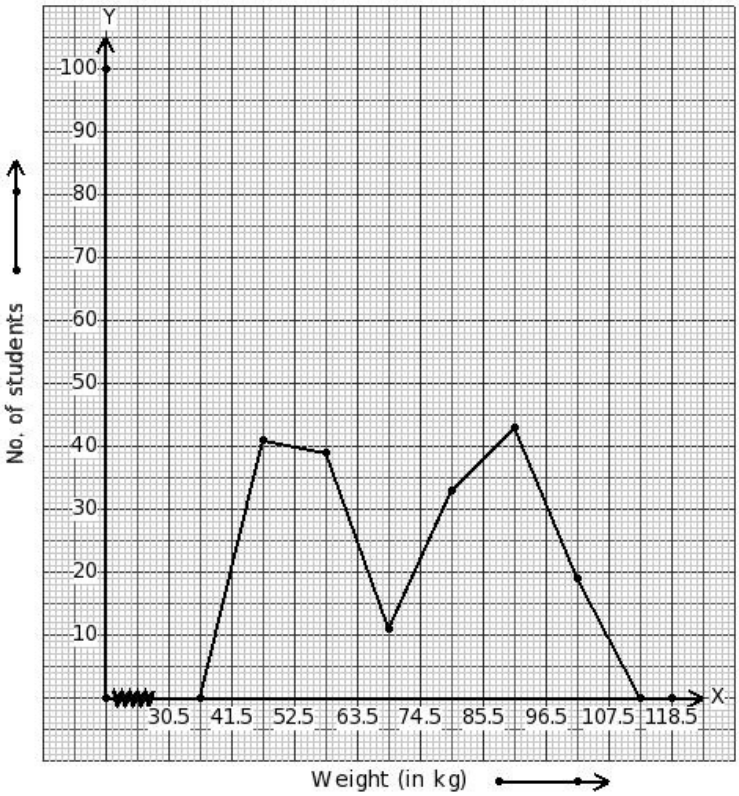
(iv)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	25	12	23	14	49

(v)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	25	49	26	14	12

20. Weights of 186 students (in kg) are given below. Identify the class interval table for the given frequency polygon.



(i)

Weight (in kg)	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107
No. of students	41	39	11	33	43	19

(ii)

Weight (in kg)	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107
No. of students	41	39	11	31	43	19

(iii)

Weight (in kg)	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107
No. of students	41	39	15	33	43	19

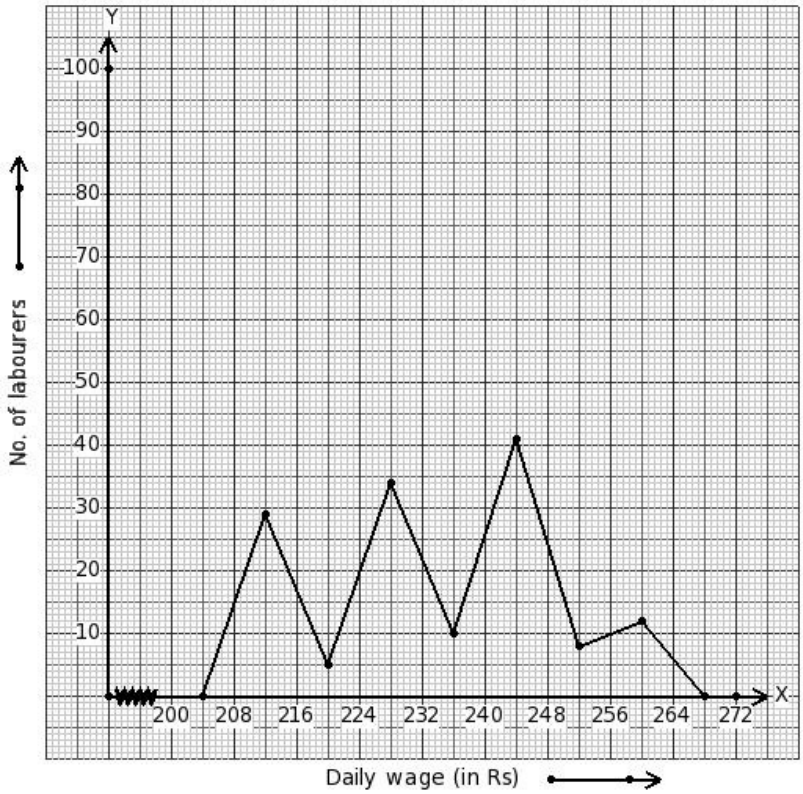
(iv)

Weight (in kg)	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107
No. of students	41	19	11	33	43	39

(v)

Weight (in kg)	42 - 52	53 - 63	64 - 74	75 - 85	86 - 96	97 - 107
No. of students	41	11	39	33	43	19

21. Daily wages of 139 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	208 - 216	216 - 224	224 - 232	232 - 240	240 - 248	248 - 256	256 - 264
No. of labourers	29	5	34	10	41	8	12

(ii)

Daily wage (in Rs)	208 - 216	216 - 224	224 - 232	232 - 240	240 - 248	248 - 256	256 - 264
No. of labourers	29	12	34	10	41	8	5

(iii)

Daily wage (in Rs)	208 - 216	216 - 224	224 - 232	232 - 240	240 - 248	248 - 256	256 - 264
No. of labourers	29	34	5	10	41	8	12

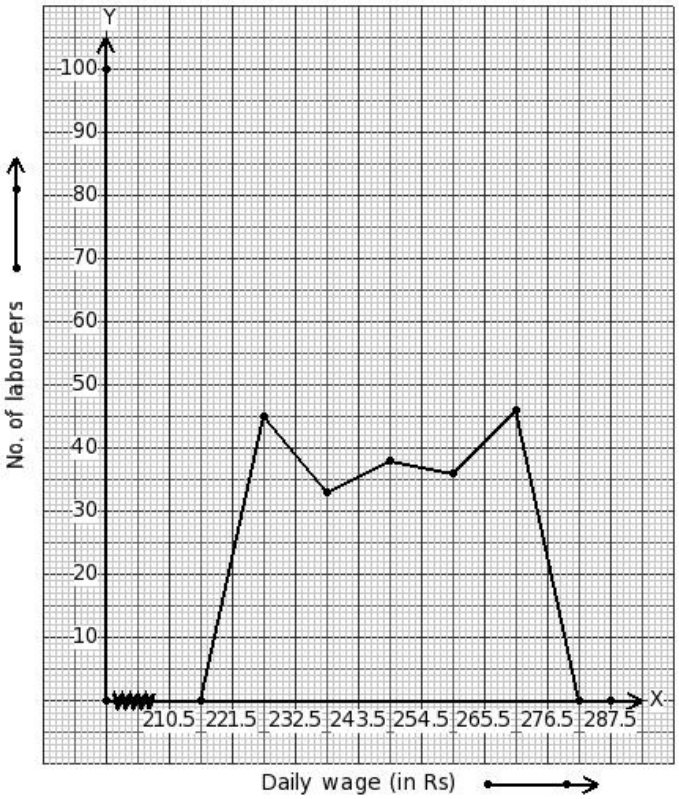
(iv)

Daily wage (in Rs)	208 - 216	216 - 224	224 - 232	232 - 240	240 - 248	248 - 256	256 - 264
No. of labourers	29	5	29	10	41	8	12

(v)

Daily wage (in Rs)	208 - 216	216 - 224	224 - 232	232 - 240	240 - 248	248 - 256	256 - 264
No. of labourers	29	5	34	14	41	8	12

22. Daily wages of 198 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	222 - 232	233 - 243	244 - 254	255 - 265	266 - 276
No. of labourers	45	38	33	36	46

(ii)

Daily wage (in Rs)	222 - 232	233 - 243	244 - 254	255 - 265	266 - 276
No. of labourers	45	33	38	36	46

(iii)

Daily wage (in Rs)	222 - 232	233 - 243	244 - 254	255 - 265	266 - 276
No. of labourers	45	33	35	36	46

(iv)

Daily wage (in Rs)	222 - 232	233 - 243	244 - 254	255 - 265	266 - 276
No. of labourers	45	31	38	36	46

(v)

Daily wage (in Rs)	222 - 232	233 - 243	244 - 254	255 - 265	266 - 276
No. of labourers	45	46	38	36	33

Assignment Key

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

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