EduSahara™ Assignment

Name : Frequency Polygon

Chapter : Frequency Distribution Tables and Graphs

Grade : SSC Grade VIII

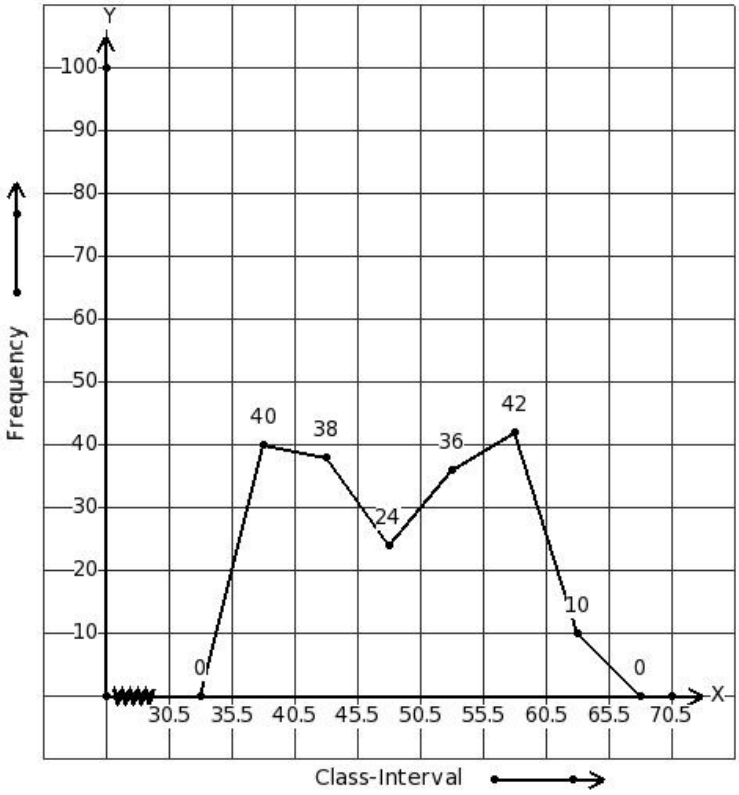
1. The frequency polygon is one drawn using

   (i) end points of classes and frequencies (ii) mid point of classes and frequencies

   (iii) lower boundaries of classes and greater than cumulative frequencies

   (iv) upper boundaries of classes and cumulative frequencies

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



(i)

Class-Interval	36 - 40	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65
Frequency	40	38	24	32	42	10

(ii)

Class-Interval	36 - 40	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65
Frequency	40	38	24	36	42	10

(iii)

Class-Interval	36 - 40	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65
Frequency	40	10	24	36	42	38

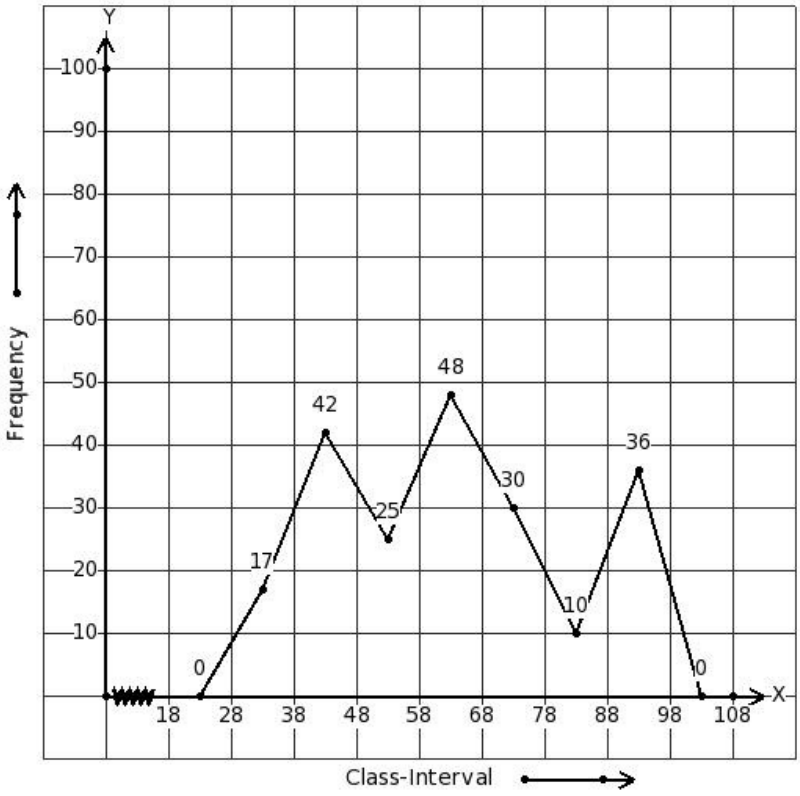
(iv)

Class-Interval	36 - 40	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65
Frequency	40	38	27	36	42	10

(v)

Class-Interval	36 - 40	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65
Frequency	40	24	38	36	42	10

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



(i)

Class-Interval	28 - 38	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98
Frequency	17	42	21	48	30	10	36

(ii)

Class-Interval	28 - 38	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98
Frequency	17	42	25	52	30	10	36

(iii)

Class-Interval	28 - 38	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98
Frequency	17	36	25	48	30	10	42

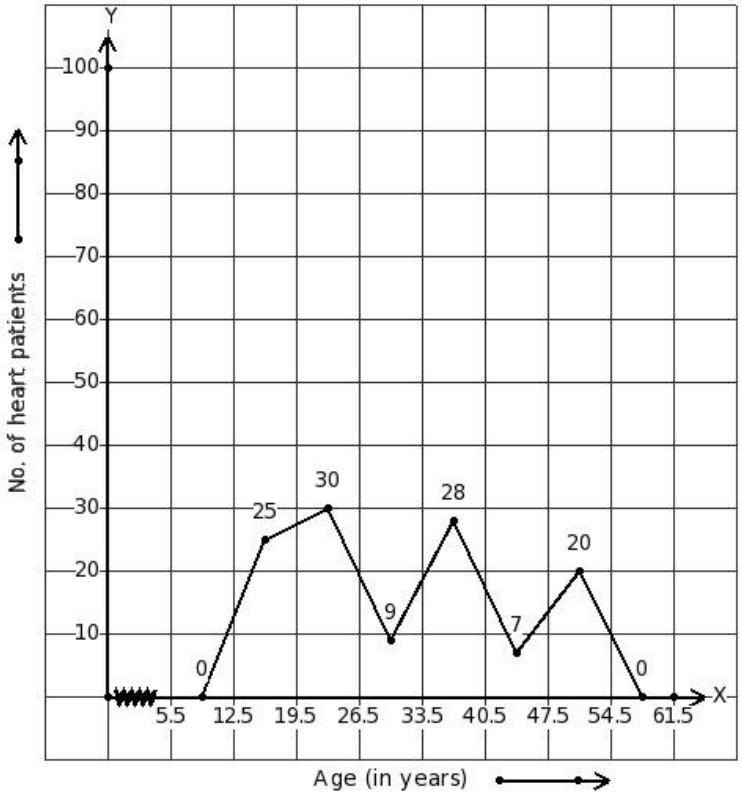
(iv)

Class-Interval	28 - 38	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98
Frequency	17	25	42	48	30	10	36

(v)

Class-Interval	28 - 38	38 - 48	48 - 58	58 - 68	68 - 78	78 - 88	88 - 98
Frequency	17	42	25	48	30	10	36

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



(i)

Age (in years)	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
No. of heart patients	25	30	7	28	7	20

(ii)

Age (in years)	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
No. of heart patients	25	30	9	28	7	20

(iii)

Age (in years)	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
No. of heart patients	25	9	30	28	7	20

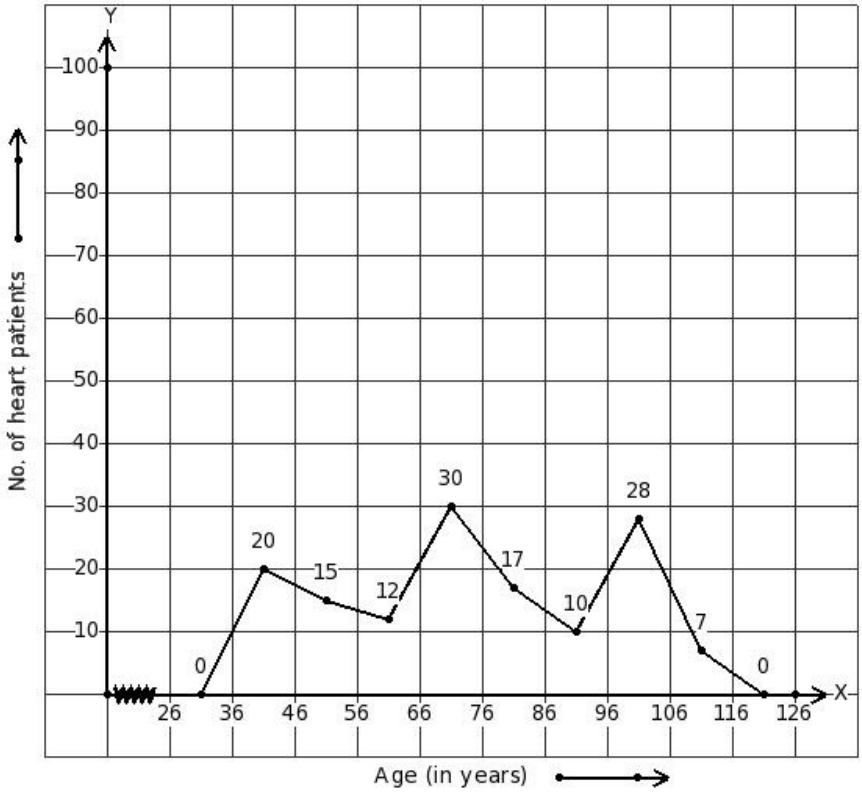
(iv)

Age (in years)	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
No. of heart patients	25	30	9	32	7	20

(v)

Age (in years)	13 - 19	20 - 26	27 - 33	34 - 40	41 - 47	48 - 54
No. of heart patients	25	20	9	28	7	30

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



(i)

Age (in years)	36 - 46	46 - 56	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of heart patients	20	15	12	30	17	10	28	7

(ii)

Age (in years)	36 - 46	46 - 56	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of heart patients	20	7	12	30	17	10	28	15

(iii)

Age (in years)	36 - 46	46 - 56	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of heart patients	20	15	30	12	17	10	28	7

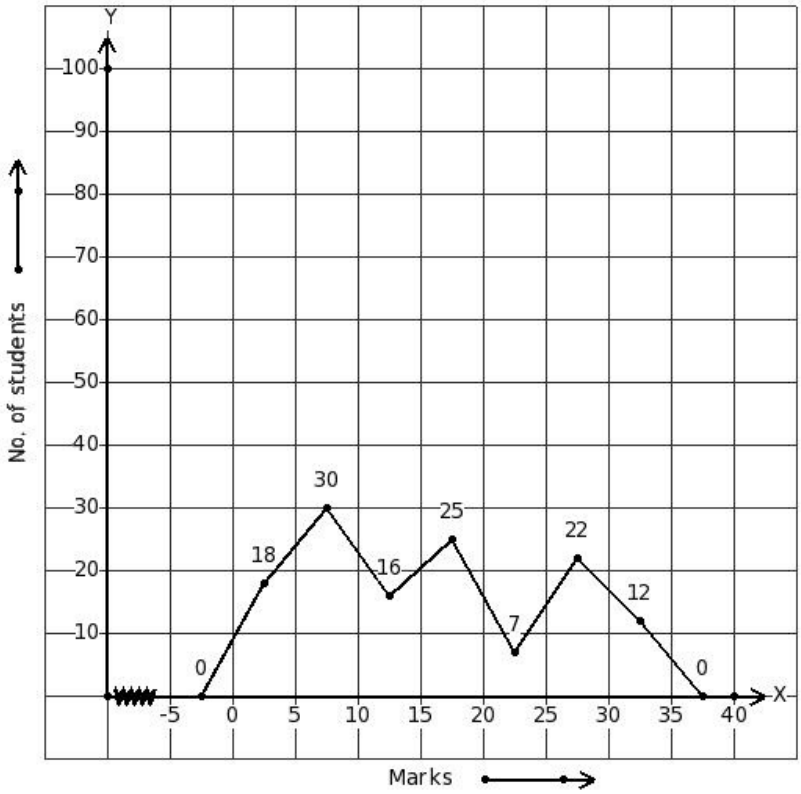
(iv)

Age (in years)	36 - 46	46 - 56	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of heart patients	20	15	7	30	17	10	28	7

(v)

Age (in years)	36 - 46	46 - 56	56 - 66	66 - 76	76 - 86	86 - 96	96 - 106	106 - 116
No. of heart patients	20	15	12	30	13	10	28	7

6. Marks obtained by 130 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	18	16	30	25	7	22	12

(ii)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	18	30	16	25	7	22	12

(iii)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	18	12	16	25	7	22	30

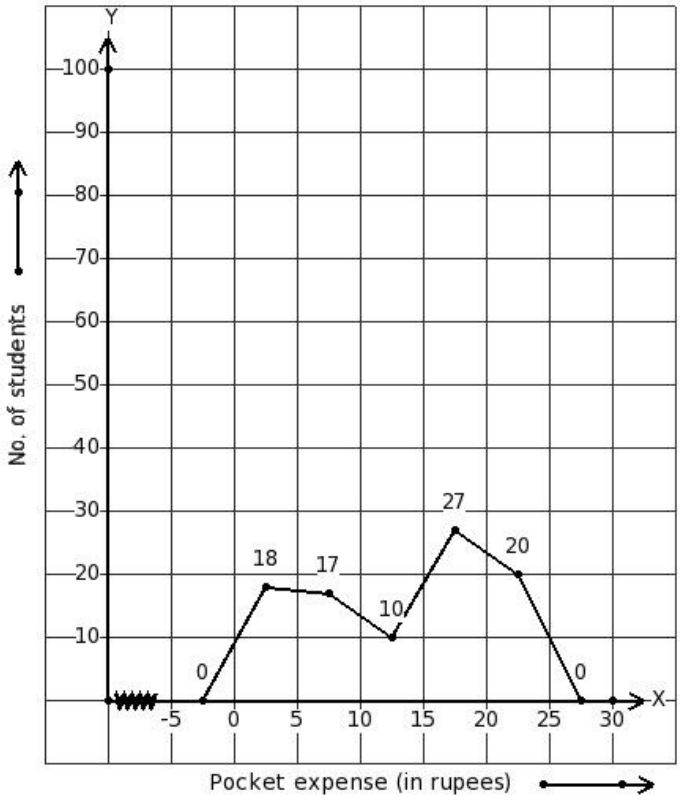
(iv)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	18	30	11	25	7	22	12

(v)

Marks	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
No. of students	18	30	16	27	7	22	12

7. The daily pocket expenses of 92 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
No. of students	18	21	10	27	20

(ii)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25
No. of students	18	17	14	27	20

(iii)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25
No. of students	18	17	10	27	20

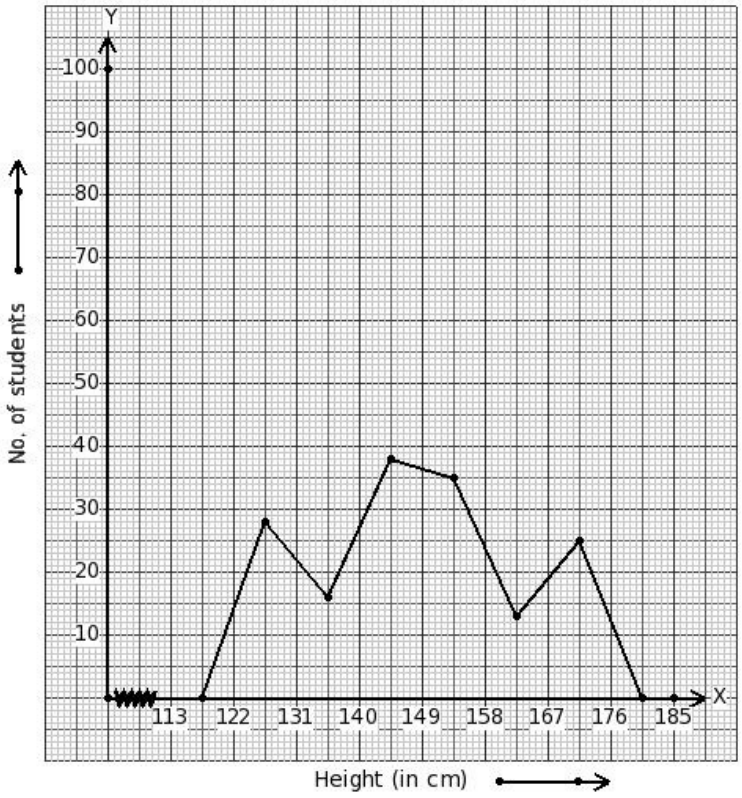
(iv)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25
No. of students	18	20	10	27	17

(v)

Pocket expense (in rupees)	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25
No. of students	18	10	17	27	20

8. Heights of 155 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	122 - 131	131 - 140	140 - 149	149 - 158	158 - 167	167 - 176
No. of students	28	16	42	35	13	25

(ii)

Height (in cm)	122 - 131	131 - 140	140 - 149	149 - 158	158 - 167	167 - 176
No. of students	28	16	38	33	13	25

(iii)

Height (in cm)	122 - 131	131 - 140	140 - 149	149 - 158	158 - 167	167 - 176
No. of students	28	38	16	35	13	25

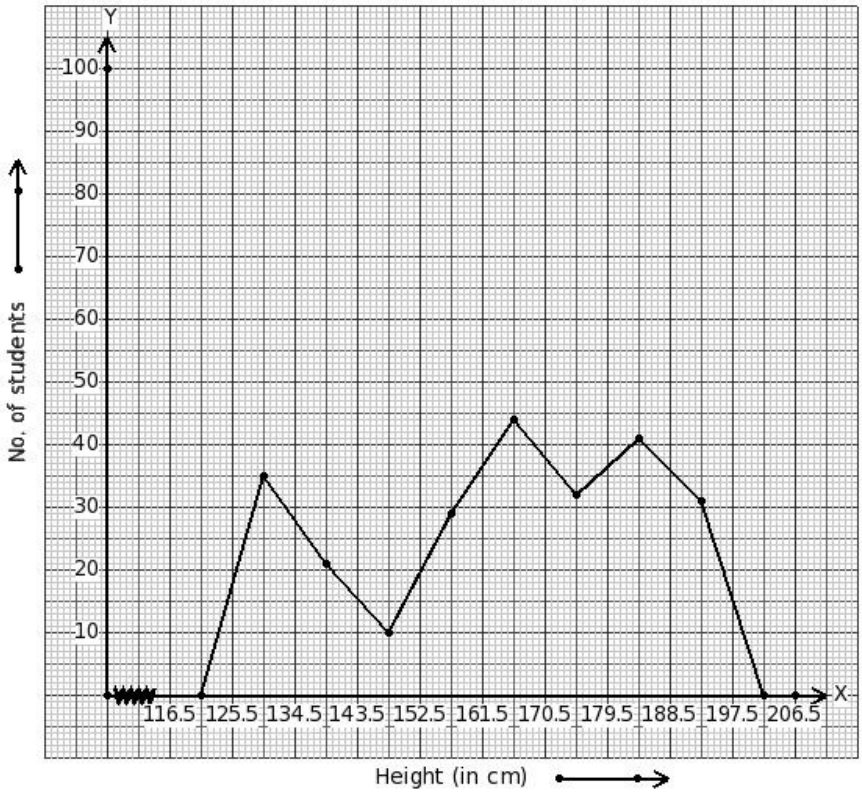
(iv)

Height (in cm)	122 - 131	131 - 140	140 - 149	149 - 158	158 - 167	167 - 176
No. of students	28	16	38	35	13	25

(v)

Height (in cm)	122 - 131	131 - 140	140 - 149	149 - 158	158 - 167	167 - 176
No. of students	28	25	38	35	13	16

9. Heights of 243 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	126 - 134	135 - 143	144 - 152	153 - 161	162 - 170	171 - 179	180 - 188	189 - 197
No. of students	35	21	10	29	44	32	41	31

(ii)

Height (in cm)	126 - 134	135 - 143	144 - 152	153 - 161	162 - 170	171 - 179	180 - 188	189 - 197
No. of students	35	21	29	10	44	32	41	31

(iii)

Height (in cm)	126 - 134	135 - 143	144 - 152	153 - 161	162 - 170	171 - 179	180 - 188	189 - 197
No. of students	35	21	10	29	42	32	41	31

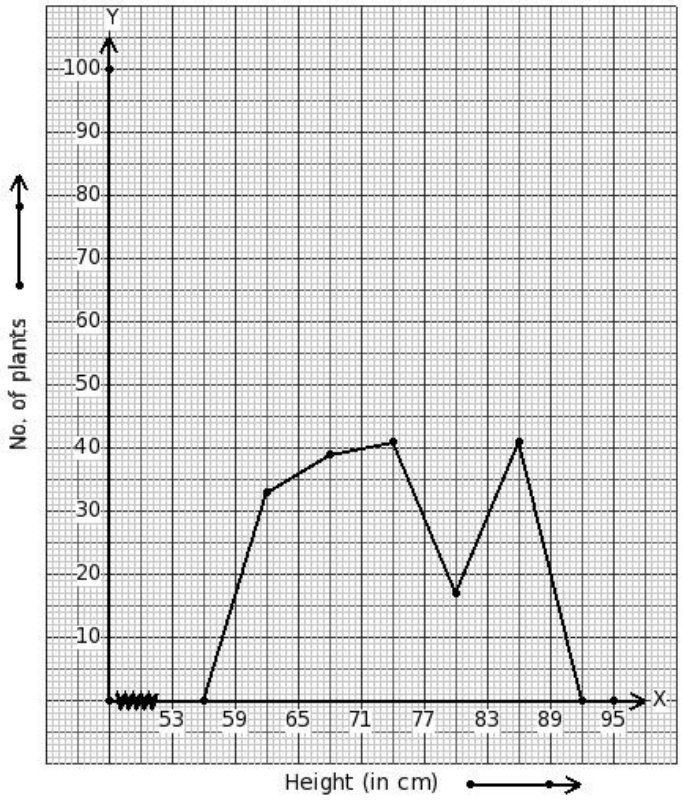
(iv)

Height (in cm)	126 - 134	135 - 143	144 - 152	153 - 161	162 - 170	171 - 179	180 - 188	189 - 197
No. of students	35	21	12	29	44	32	41	31

(v)

Height (in cm)	126 - 134	135 - 143	144 - 152	153 - 161	162 - 170	171 - 179	180 - 188	189 - 197
No. of students	35	31	10	29	44	32	41	21

10. Heights of 171 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	59 - 65	65 - 71	71 - 77	77 - 83	83 - 89
No. of plants	33	34	41	17	41

(ii)

Height (in cm)	59 - 65	65 - 71	71 - 77	77 - 83	83 - 89
No. of plants	33	41	39	17	41

(iii)

Height (in cm)	59 - 65	65 - 71	71 - 77	77 - 83	83 - 89
No. of plants	33	41	41	17	39

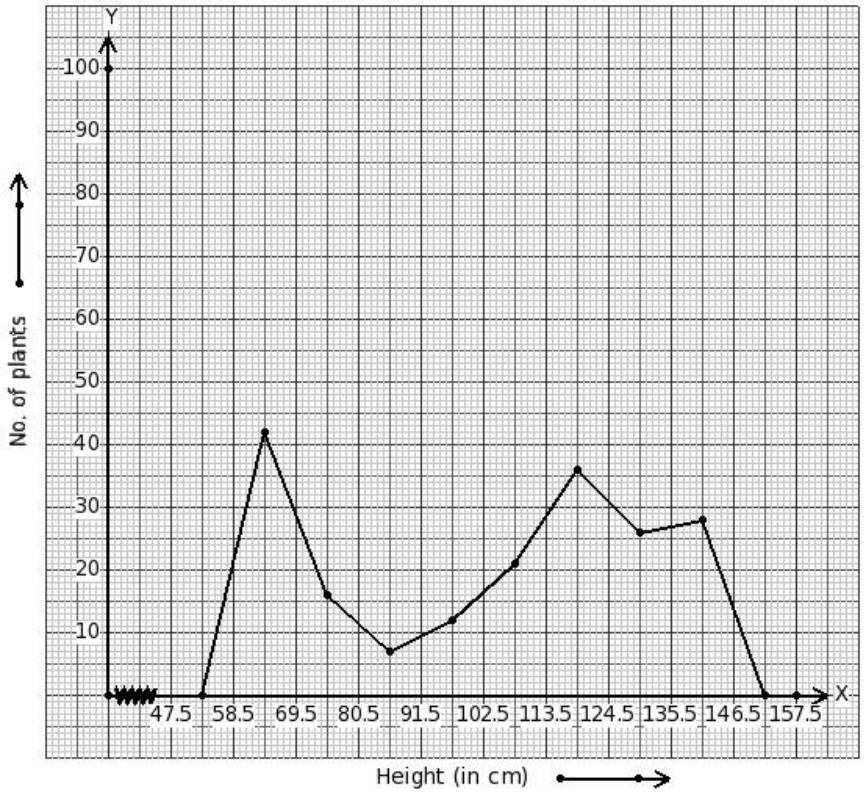
(iv)

Height (in cm)	59 - 65	65 - 71	71 - 77	77 - 83	83 - 89
No. of plants	33	39	41	17	41

(v)

Height (in cm)	59 - 65	65 - 71	71 - 77	77 - 83	83 - 89
No. of plants	33	39	44	17	41

11. Heights of 188 plants (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	59 - 69	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146
No. of plants	42	16	7	12	26	36	26	28

(ii)

Height (in cm)	59 - 69	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146
No. of plants	42	28	7	12	21	36	26	16

(iii)

Height (in cm)	59 - 69	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146
No. of plants	42	16	7	12	21	36	26	28

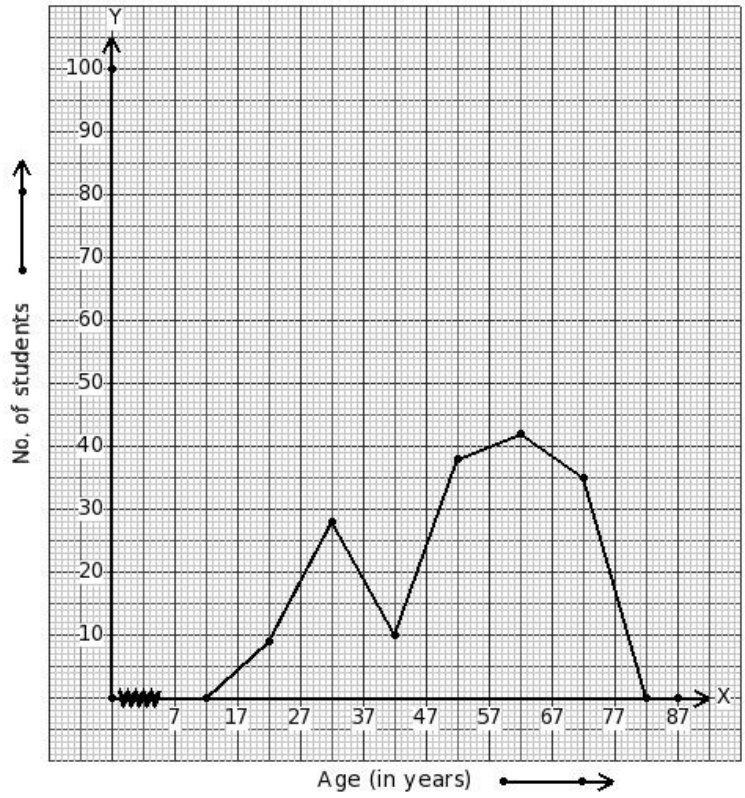
(iv)

Height (in cm)	59 - 69	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146
No. of plants	42	16	12	7	21	36	26	28

(v)

Height (in cm)	59 - 69	70 - 80	81 - 91	92 - 102	103 - 113	114 - 124	125 - 135	136 - 146
No. of plants	42	16	9	12	21	36	26	28

12. Ages of 162 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77
No. of students	9	28	10	35	42	35

(ii)

Age (in years)	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77
No. of students	9	28	5	38	42	35

(iii)

Age (in years)	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77
No. of students	9	10	28	38	42	35

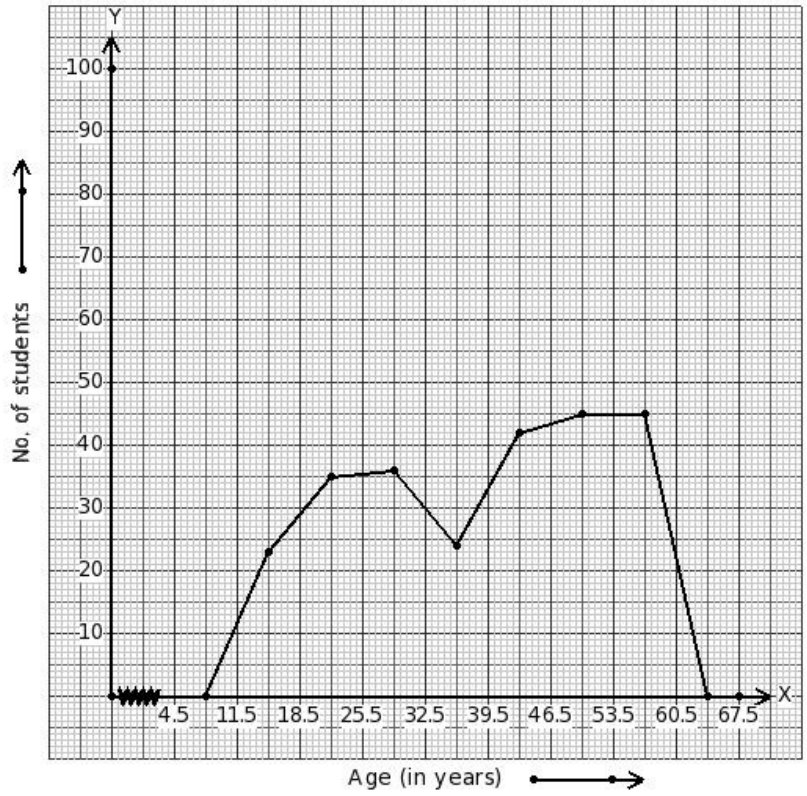
(iv)

Age (in years)	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77
No. of students	9	28	10	38	42	35

(v)

Age (in years)	17 - 27	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77
No. of students	9	35	10	38	42	28

13. Ages of 250 students (in years) are given below. Identify the class interval table for the given frequency polygon.



(i)

Age (in years)	12 - 18	19 - 25	26 - 32	33 - 39	40 - 46	47 - 53	54 - 60
No. of students	23	35	36	24	42	45	45

(ii)

Age (in years)	12 - 18	19 - 25	26 - 32	33 - 39	40 - 46	47 - 53	54 - 60
No. of students	23	35	36	27	42	45	45

(iii)

Age (in years)	12 - 18	19 - 25	26 - 32	33 - 39	40 - 46	47 - 53	54 - 60
No. of students	23	45	36	24	42	45	35

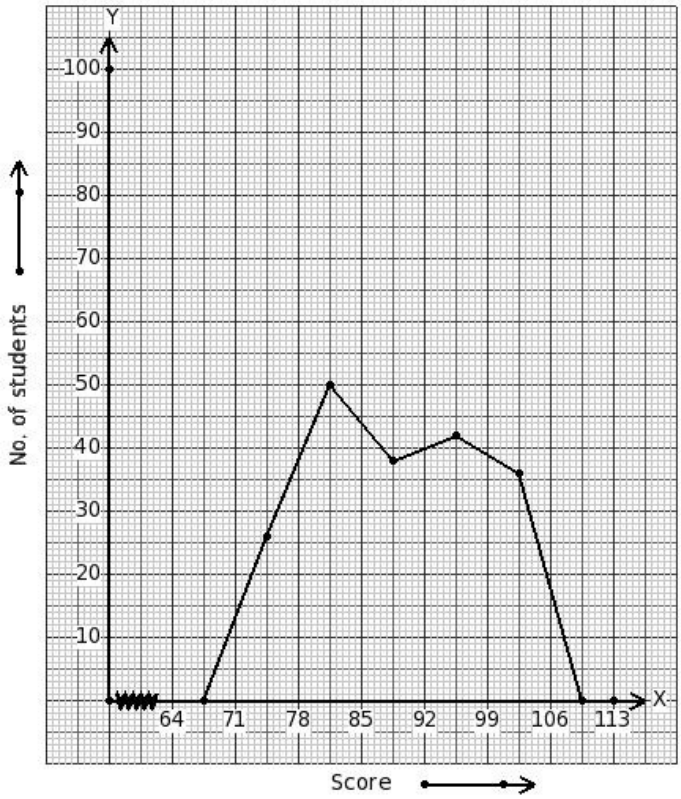
(iv)

Age (in years)	12 - 18	19 - 25	26 - 32	33 - 39	40 - 46	47 - 53	54 - 60
No. of students	23	35	41	24	42	45	45

(v)

Age (in years)	12 - 18	19 - 25	26 - 32	33 - 39	40 - 46	47 - 53	54 - 60
No. of students	23	36	35	24	42	45	45

14. Scores of 192 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	26	50	38	42	36

(ii)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	26	47	38	42	36

(iii)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	26	50	41	42	36

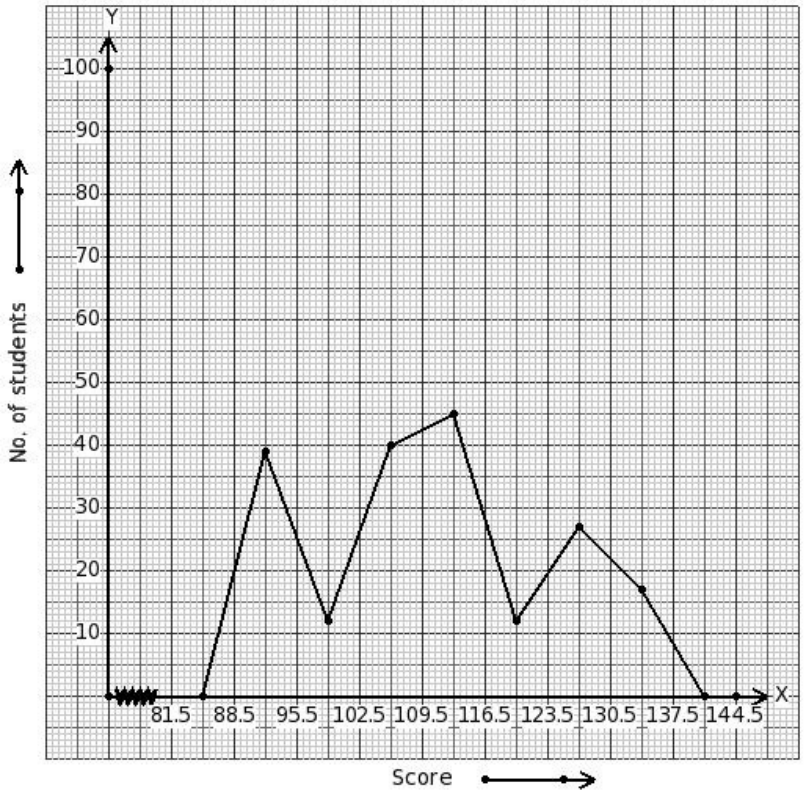
(iv)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	26	38	50	42	36

(v)

Score	71 - 78	78 - 85	85 - 92	92 - 99	99 - 106
No. of students	26	36	38	42	50

15. Scores of 192 students are given below. Identify the class interval table for the given frequency polygon.



(i)

Score	89 - 95	96 - 102	103 - 109	110 - 116	117 - 123	124 - 130	131 - 137
No. of students	39	40	12	45	12	27	17

(ii)

Score	89 - 95	96 - 102	103 - 109	110 - 116	117 - 123	124 - 130	131 - 137
No. of students	39	17	40	45	12	27	12

(iii)

Score	89 - 95	96 - 102	103 - 109	110 - 116	117 - 123	124 - 130	131 - 137
No. of students	39	12	40	43	12	27	17

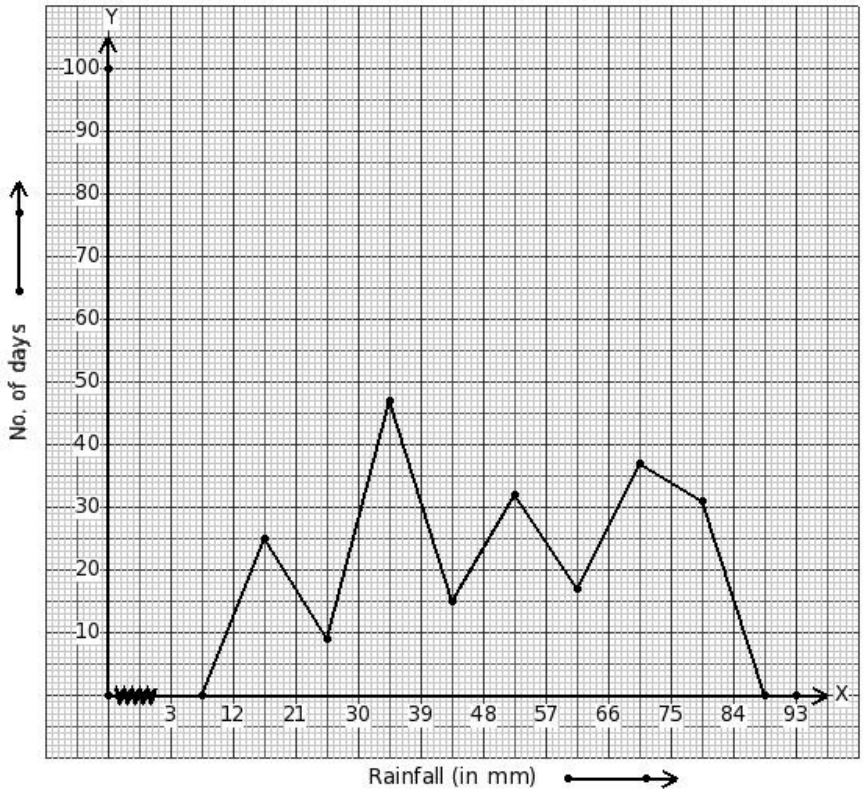
(iv)

Score	89 - 95	96 - 102	103 - 109	110 - 116	117 - 123	124 - 130	131 - 137
No. of students	39	12	40	45	12	27	17

(v)

Score	89 - 95	96 - 102	103 - 109	110 - 116	117 - 123	124 - 130	131 - 137
No. of students	39	12	36	45	12	27	17

16. Rainfall of 213 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75	75 - 84
No. of days	25	9	47	15	32	17	37	31

(ii)

Rainfall (in mm)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75	75 - 84
No. of days	25	9	47	15	35	17	37	31

(iii)

Rainfall (in mm)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75	75 - 84
No. of days	25	31	47	15	32	17	37	9

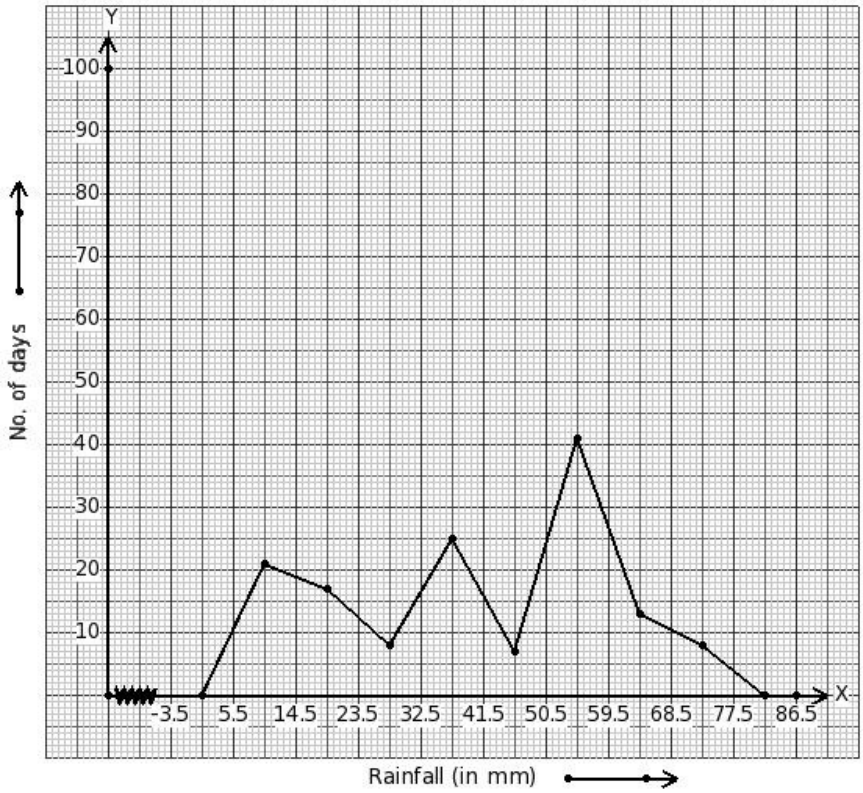
(iv)

Rainfall (in mm)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75	75 - 84
No. of days	25	9	50	15	32	17	37	31

(v)

Rainfall (in mm)	12 - 21	21 - 30	30 - 39	39 - 48	48 - 57	57 - 66	66 - 75	75 - 84
No. of days	25	9	15	47	32	17	37	31

17. Rainfall of 140 days (in mm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Rainfall (in mm)	6 - 14	15 - 23	24 - 32	33 - 41	42 - 50	51 - 59	60 - 68	69 - 77
No. of days	21	8	8	25	7	41	13	17

(ii)

Rainfall (in mm)	6 - 14	15 - 23	24 - 32	33 - 41	42 - 50	51 - 59	60 - 68	69 - 77
No. of days	21	17	8	25	10	41	13	8

(iii)

Rainfall (in mm)	6 - 14	15 - 23	24 - 32	33 - 41	42 - 50	51 - 59	60 - 68	69 - 77
No. of days	21	17	5	25	7	41	13	8

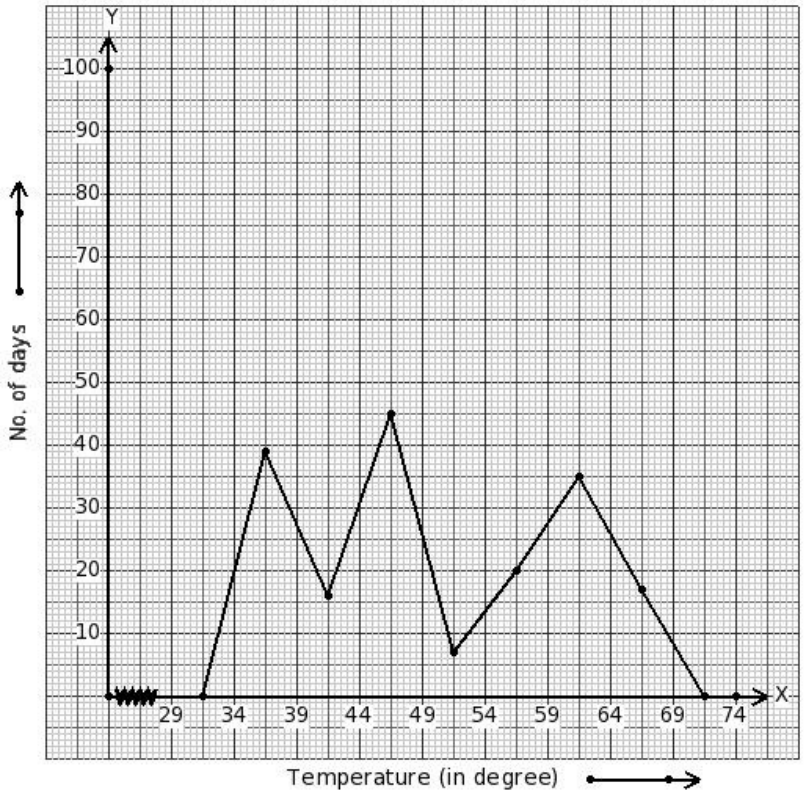
(iv)

Rainfall (in mm)	6 - 14	15 - 23	24 - 32	33 - 41	42 - 50	51 - 59	60 - 68	69 - 77
No. of days	21	17	25	8	7	41	13	8

(v)

Rainfall (in mm)	6 - 14	15 - 23	24 - 32	33 - 41	42 - 50	51 - 59	60 - 68	69 - 77
No. of days	21	17	8	25	7	41	13	8

18. Temperatures of 179 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	34 - 39	39 - 44	44 - 49	49 - 54	54 - 59	59 - 64	64 - 69
No. of days	39	16	43	7	20	35	17

(ii)

Temperature (in degree)	34 - 39	39 - 44	44 - 49	49 - 54	54 - 59	59 - 64	64 - 69
No. of days	39	45	16	7	20	35	17

(iii)

Temperature (in degree)	34 - 39	39 - 44	44 - 49	49 - 54	54 - 59	59 - 64	64 - 69
No. of days	39	16	45	7	20	35	17

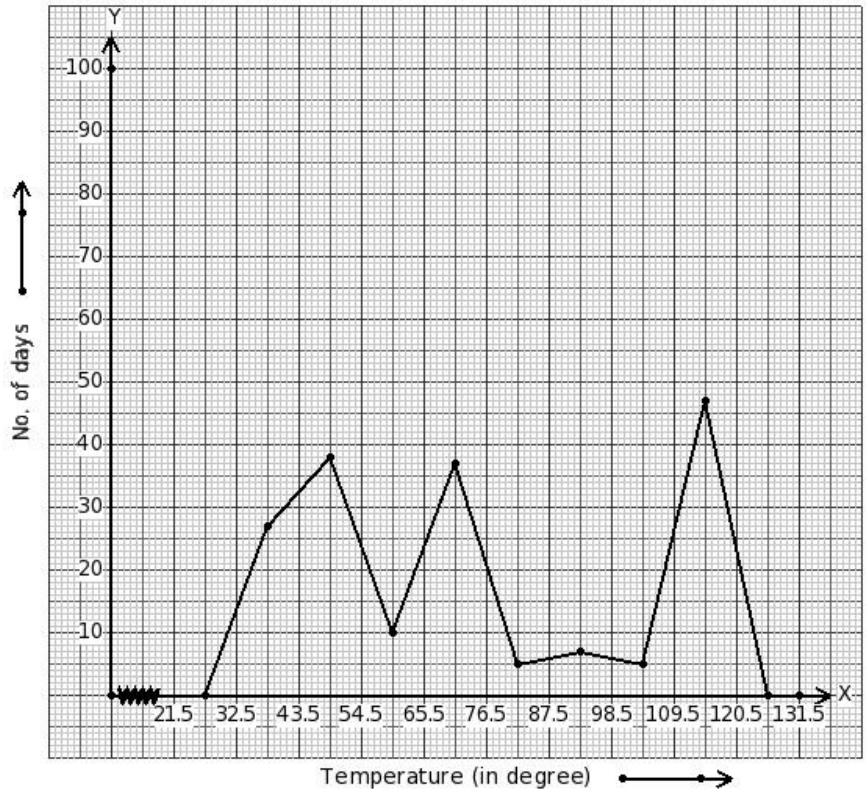
(iv)

Temperature (in degree)	34 - 39	39 - 44	44 - 49	49 - 54	54 - 59	59 - 64	64 - 69
No. of days	39	17	45	7	20	35	16

(v)

Temperature (in degree)	34 - 39	39 - 44	44 - 49	49 - 54	54 - 59	59 - 64	64 - 69
No. of days	39	16	45	4	20	35	17

19. Temperatures of 176 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	33 - 43	44 - 54	55 - 65	66 - 76	77 - 87	88 - 98	99 - 109	110 - 120
No. of days	27	38	10	37	5	7	5	47

(ii)

Temperature (in degree)	33 - 43	44 - 54	55 - 65	66 - 76	77 - 87	88 - 98	99 - 109	110 - 120
No. of days	27	38	5	37	5	7	5	47

(iii)

Temperature (in degree)	33 - 43	44 - 54	55 - 65	66 - 76	77 - 87	88 - 98	99 - 109	110 - 120
No. of days	27	38	10	37	8	7	5	47

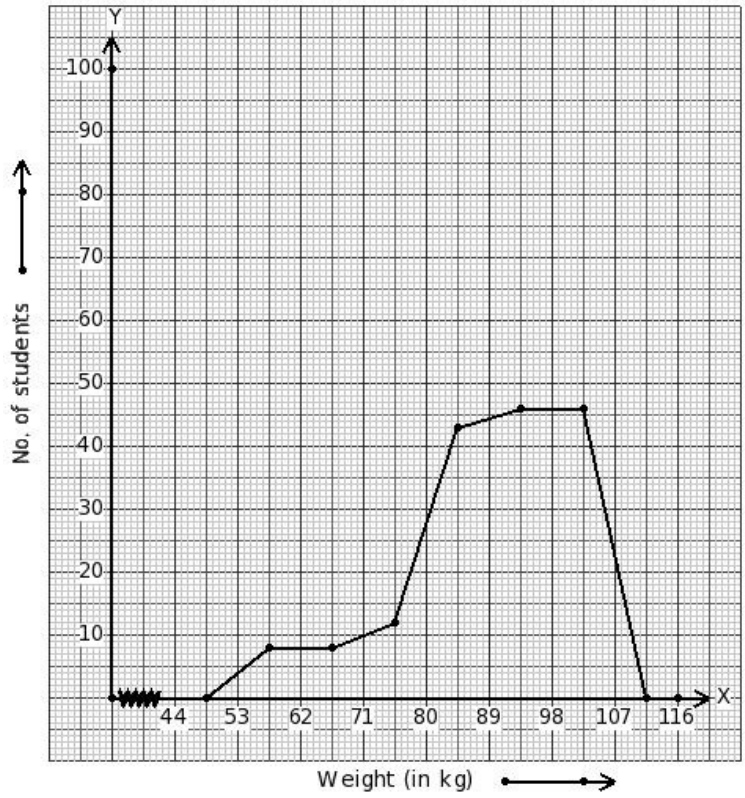
(iv)

Temperature (in degree)	33 - 43	44 - 54	55 - 65	66 - 76	77 - 87	88 - 98	99 - 109	110 - 120
No. of days	27	38	37	10	5	7	5	47

(v)

Temperature (in degree)	33 - 43	44 - 54	55 - 65	66 - 76	77 - 87	88 - 98	99 - 109	110 - 120
No. of days	27	47	10	37	5	7	5	38

20. Weights of 163 students (in kg) are given below. Identify the class interval table for the given frequency polygon.



(i)

Weight (in kg)	53 - 62	62 - 71	71 - 80	80 - 89	89 - 98	98 - 107
No. of students	8	8	10	43	46	46

(ii)

Weight (in kg)	53 - 62	62 - 71	71 - 80	80 - 89	89 - 98	98 - 107
No. of students	8	8	12	43	46	46

(iii)

Weight (in kg)	53 - 62	62 - 71	71 - 80	80 - 89	89 - 98	98 - 107
No. of students	8	8	12	40	46	46

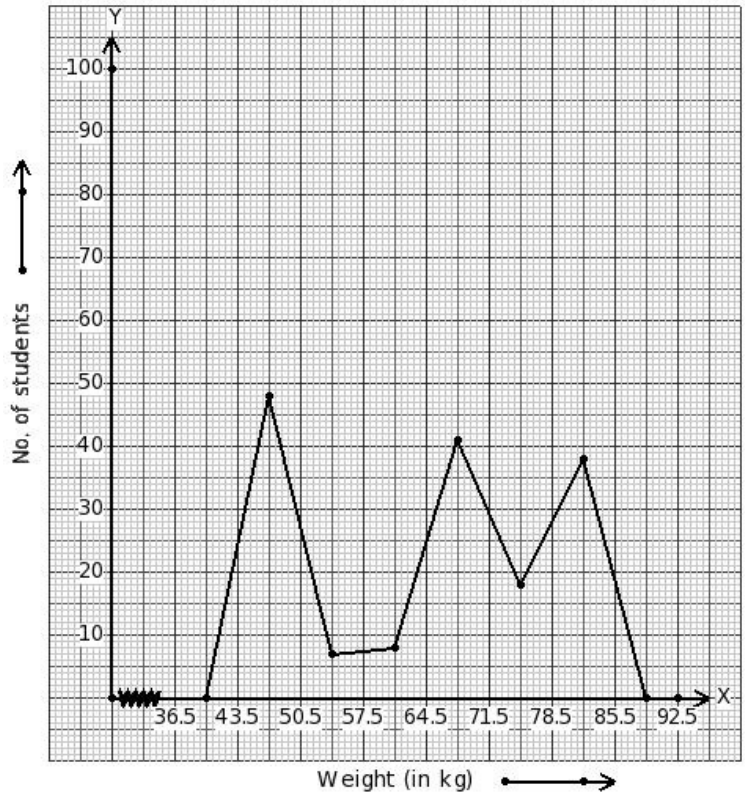
(iv)

Weight (in kg)	53 - 62	62 - 71	71 - 80	80 - 89	89 - 98	98 - 107
No. of students	8	12	8	43	46	46

(v)

Weight (in kg)	53 - 62	62 - 71	71 - 80	80 - 89	89 - 98	98 - 107
No. of students	8	46	12	43	46	8

21. Weights of 160 students (in kg) are given below. Identify the class interval table for the given frequency polygon.



(i)

Weight (in kg)	44 - 50	51 - 57	58 - 64	65 - 71	72 - 78	79 - 85
No. of students	48	7	8	38	18	38

(ii)

Weight (in kg)	44 - 50	51 - 57	58 - 64	65 - 71	72 - 78	79 - 85
No. of students	48	38	8	41	18	7

(iii)

Weight (in kg)	44 - 50	51 - 57	58 - 64	65 - 71	72 - 78	79 - 85
No. of students	48	7	8	41	18	38

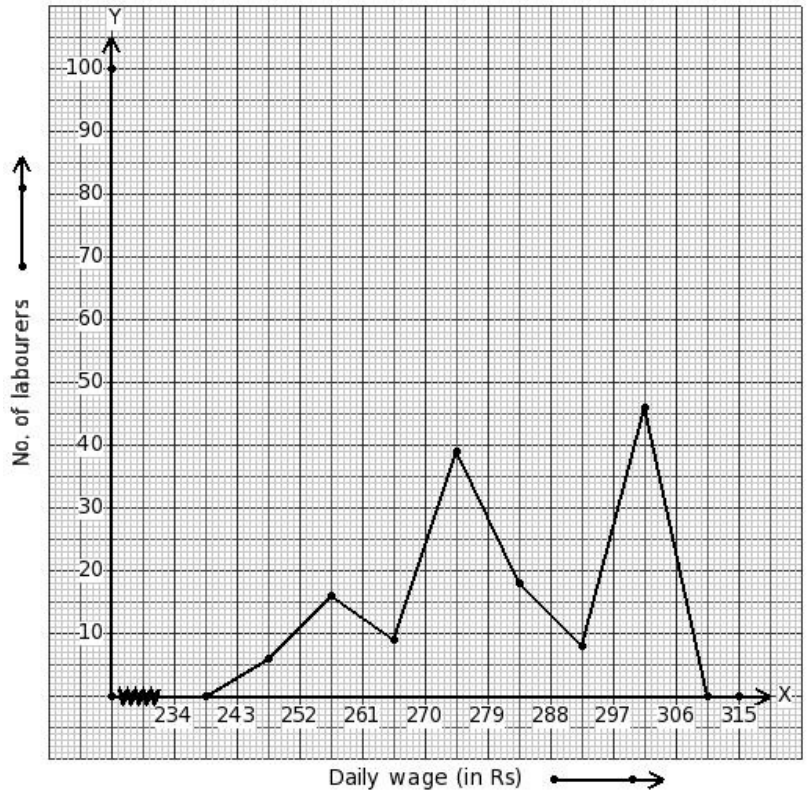
(iv)

Weight (in kg)	44 - 50	51 - 57	58 - 64	65 - 71	72 - 78	79 - 85
No. of students	48	8	7	41	18	38

(v)

Weight (in kg)	44 - 50	51 - 57	58 - 64	65 - 71	72 - 78	79 - 85
No. of students	48	7	13	41	18	38

22. Daily wages of 142 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	243 - 252	252 - 261	261 - 270	270 - 279	279 - 288	288 - 297	297 - 306
No. of labourers	6	9	16	39	18	8	46

(ii)

Daily wage (in Rs)	243 - 252	252 - 261	261 - 270	270 - 279	279 - 288	288 - 297	297 - 306
No. of labourers	6	46	9	39	18	8	16

(iii)

Daily wage (in Rs)	243 - 252	252 - 261	261 - 270	270 - 279	279 - 288	288 - 297	297 - 306
No. of labourers	6	16	9	41	18	8	46

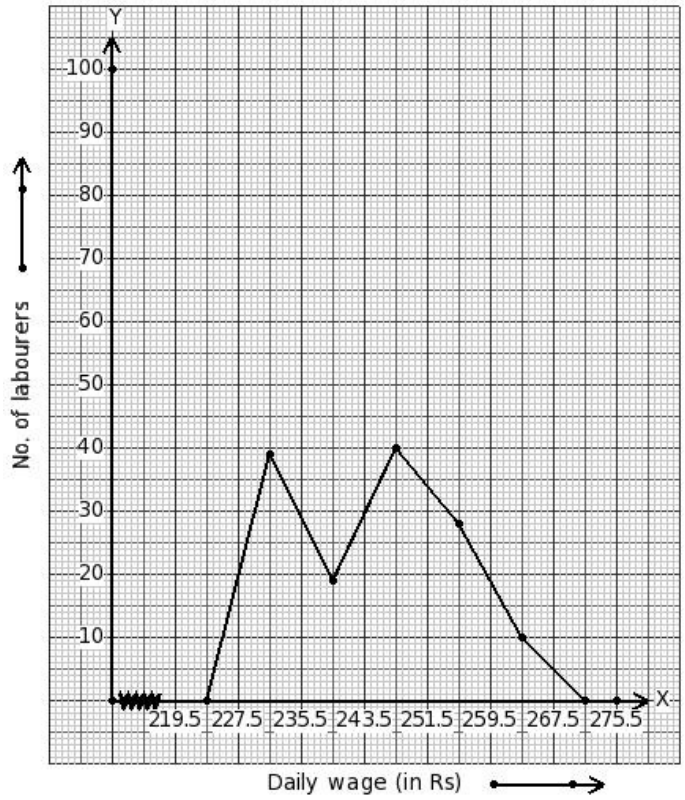
(iv)

Daily wage (in Rs)	243 - 252	252 - 261	261 - 270	270 - 279	279 - 288	288 - 297	297 - 306
No. of labourers	6	16	9	39	18	8	46

(v)

Daily wage (in Rs)	243 - 252	252 - 261	261 - 270	270 - 279	279 - 288	288 - 297	297 - 306
No. of labourers	6	16	4	39	18	8	46

23. Daily wages of 136 labourers (in ₹) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Daily wage (in Rs)	228 - 235	236 - 243	244 - 251	252 - 259	260 - 267
No. of labourers	39	40	19	28	10

(ii)

Daily wage (in Rs)	228 - 235	236 - 243	244 - 251	252 - 259	260 - 267
No. of labourers	39	19	37	28	10

(iii)

Daily wage (in Rs)	228 - 235	236 - 243	244 - 251	252 - 259	260 - 267
No. of labourers	39	19	40	28	10

(iv)

Daily wage (in Rs)	228 - 235	236 - 243	244 - 251	252 - 259	260 - 267
No. of labourers	39	15	40	28	10

(v)

Daily wage (in Rs)	228 - 235	236 - 243	244 - 251	252 - 259	260 - 267
No. of labourers	39	10	40	28	19

Assignment Key

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