EduSahara™ Assignment

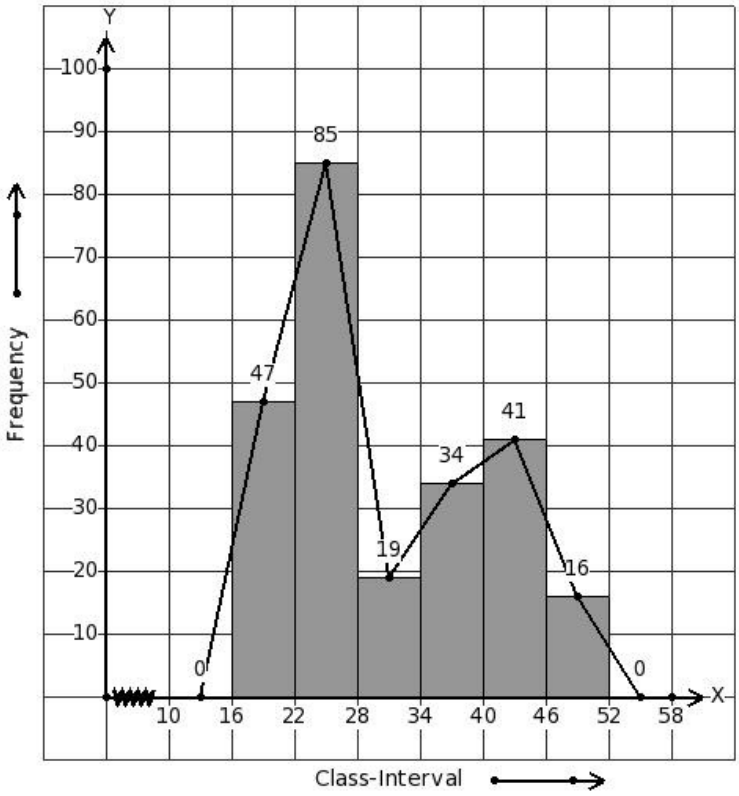
Name : Histogram and Frequency Polygon on the same Graph

Chapter : Graphical Representation of Statistical Data

Grade : ICSE Grade IX

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1. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Class-Interval	16 - 22	22 - 28	28 - 34	34 - 40	40 - 46	46 - 52
Frequency	47	16	19	34	41	85

(ii)

Class-Interval	16 - 22	22 - 28	28 - 34	34 - 40	40 - 46	46 - 52
Frequency	47	85	19	34	41	16

(iii)

Class-Interval	16 - 22	22 - 28	28 - 34	34 - 40	40 - 46	46 - 52
Frequency	47	19	85	34	41	16

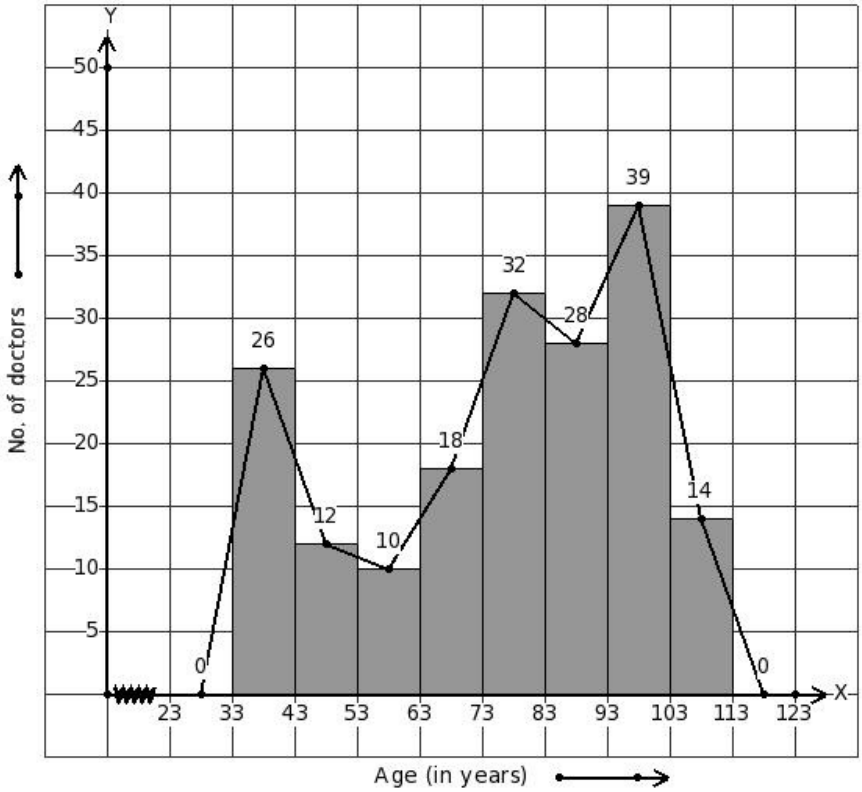
(iv)

Class-Interval	16 - 22	22 - 28	28 - 34	34 - 40	40 - 46	46 - 52
Frequency	47	85	19	38	41	16

(v)

Class-Interval	16 - 22	22 - 28	28 - 34	34 - 40	40 - 46	46 - 52
Frequency	47	85	16	34	41	16

2. Given the number of doctors working in government hospitals in a city in various age groups. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83	83 - 93	93 - 103	103 - 113
No. of doctors	26	12	8	18	32	28	39	14

(ii)

Age (in years)	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83	83 - 93	93 - 103	103 - 113
No. of doctors	26	12	10	18	30	28	39	14

(iii)

Age (in years)	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83	83 - 93	93 - 103	103 - 113
No. of doctors	26	12	18	10	32	28	39	14

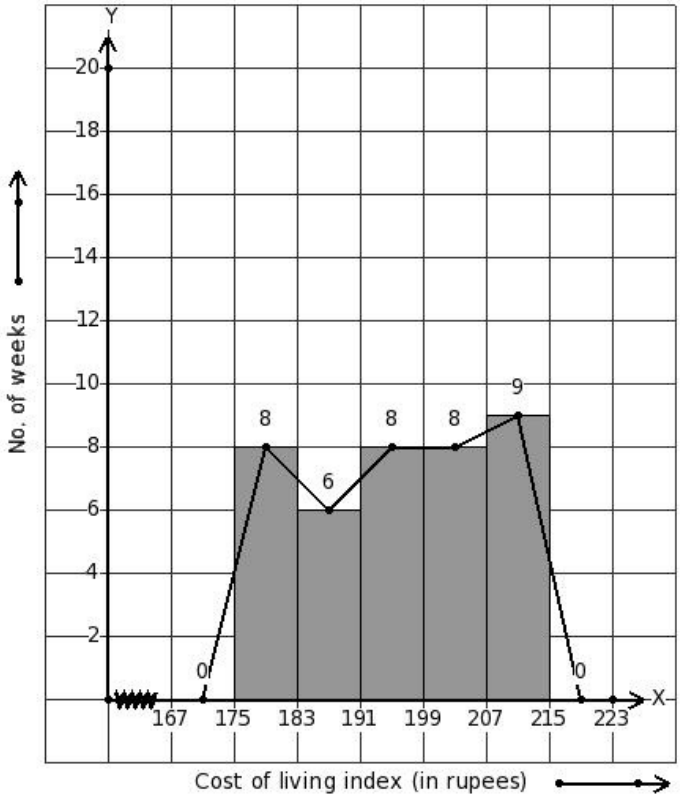
(iv)

Age (in years)	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83	83 - 93	93 - 103	103 - 113
No. of doctors	26	12	10	18	32	28	39	14

(v)

Age (in years)	33 - 43	43 - 53	53 - 63	63 - 73	73 - 83	83 - 93	93 - 103	103 - 113
No. of doctors	26	14	10	18	32	28	39	12

3. Given below is the cost of living index for a particular year in a city. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Cost of living index (in rupees)	175 - 183	183 - 191	191 - 199	199 - 207	207 - 215
No. of weeks	8	9	8	8	6

(ii)

Cost of living index (in rupees)	175 - 183	183 - 191	191 - 199	199 - 207	207 - 215
No. of weeks	8	8	6	8	9

(iii)

Cost of living index (in rupees)	175 - 183	183 - 191	191 - 199	199 - 207	207 - 215
No. of weeks	8	2	8	8	9

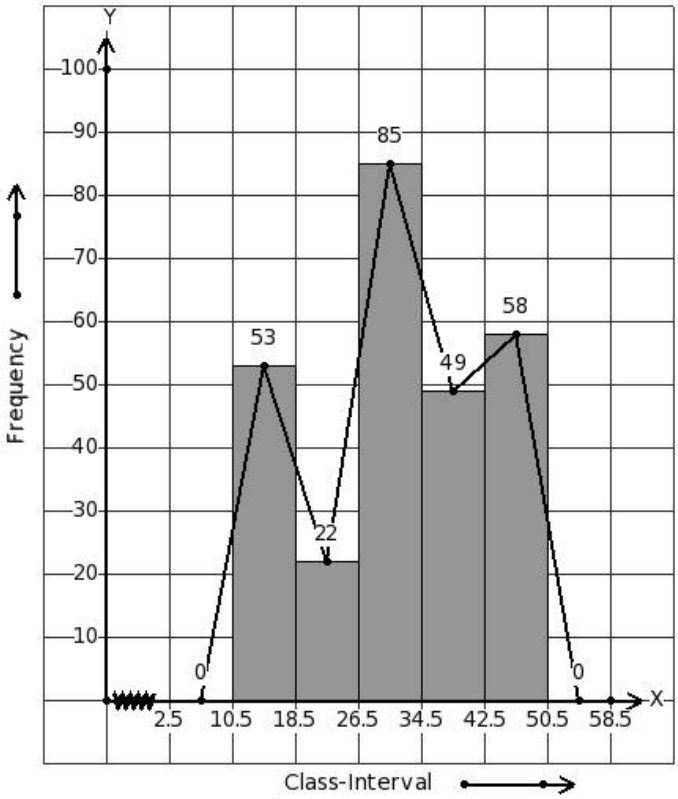
(iv)

Cost of living index (in rupees)	175 - 183	183 - 191	191 - 199	199 - 207	207 - 215
No. of weeks	8	6	8	8	9

(v)

Cost of living index (in rupees)	175 - 183	183 - 191	191 - 199	199 - 207	207 - 215
No. of weeks	8	6	4	8	9

4. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Class-Interval	11 - 18	19 - 26	27 - 34	35 - 42	43 - 50
Frequency	53	58	85	49	22

(ii)

Class-Interval	11 - 18	19 - 26	27 - 34	35 - 42	43 - 50
Frequency	53	85	22	49	58

(iii)

Class-Interval	11 - 18	19 - 26	27 - 34	35 - 42	43 - 50
Frequency	53	18	85	49	58

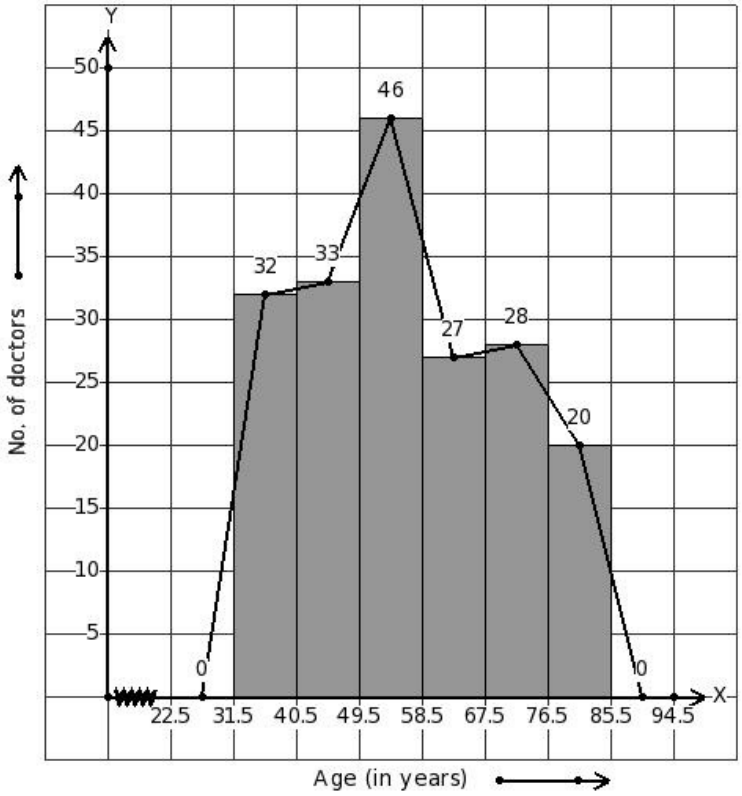
(iv)

Class-Interval	11 - 18	19 - 26	27 - 34	35 - 42	43 - 50
Frequency	53	22	80	49	58

(v)

Class-Interval	11 - 18	19 - 26	27 - 34	35 - 42	43 - 50
Frequency	53	22	85	49	58

5. Given the number of doctors working in government hospitals in a city in various age groups. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	32 - 40	41 - 49	50 - 58	59 - 67	68 - 76	77 - 85
No. of doctors	32	33	42	27	28	20

(ii)

Age (in years)	32 - 40	41 - 49	50 - 58	59 - 67	68 - 76	77 - 85
No. of doctors	32	20	46	27	28	33

(iii)

Age (in years)	32 - 40	41 - 49	50 - 58	59 - 67	68 - 76	77 - 85
No. of doctors	32	46	33	27	28	20

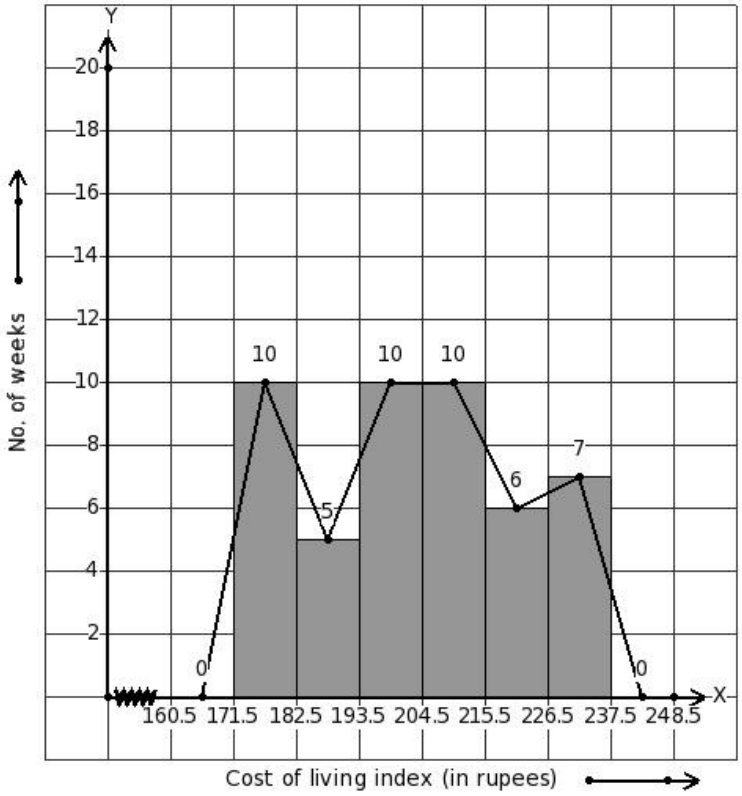
(iv)

Age (in years)	32 - 40	41 - 49	50 - 58	59 - 67	68 - 76	77 - 85
No. of doctors	32	33	46	31	28	20

(v)

Age (in years)	32 - 40	41 - 49	50 - 58	59 - 67	68 - 76	77 - 85
No. of doctors	32	33	46	27	28	20

6. Given below is the cost of living index for a particular year in a city. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Cost of living index (in rupees)	172 - 182	183 - 193	194 - 204	205 - 215	216 - 226	227 - 237
No. of weeks	10	5	10	10	6	7

(ii)

Cost of living index (in rupees)	172 - 182	183 - 193	194 - 204	205 - 215	216 - 226	227 - 237
No. of weeks	10	7	10	10	6	5

(iii)

Cost of living index (in rupees)	172 - 182	183 - 193	194 - 204	205 - 215	216 - 226	227 - 237
No. of weeks	10	5	10	8	6	7

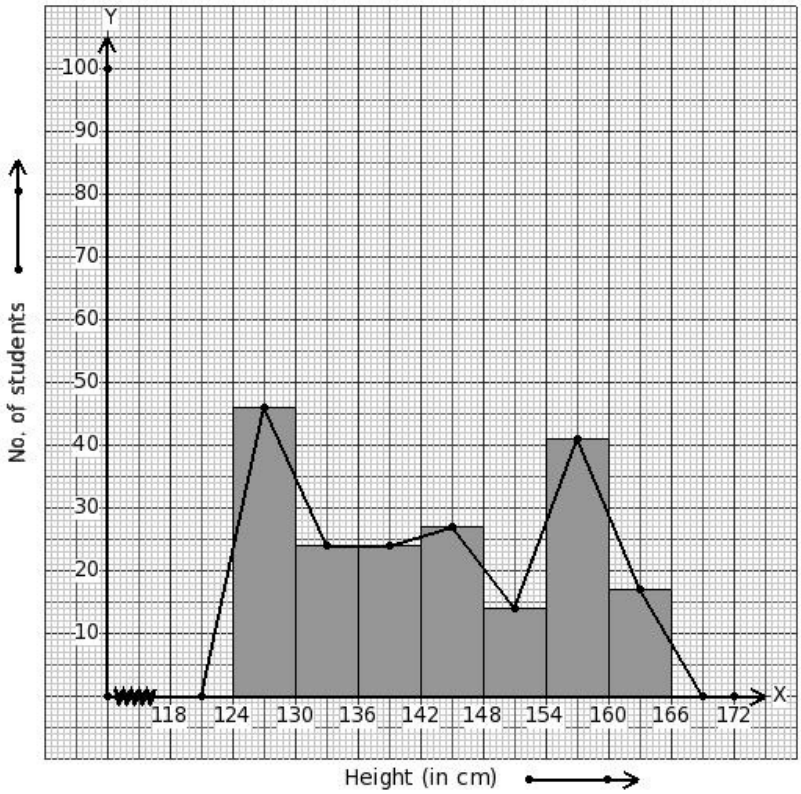
(iv)

Cost of living index (in rupees)	172 - 182	183 - 193	194 - 204	205 - 215	216 - 226	227 - 237
No. of weeks	10	5	8	10	6	7

(v)

Cost of living index (in rupees)	172 - 182	183 - 193	194 - 204	205 - 215	216 - 226	227 - 237
No. of weeks	10	10	5	10	6	7

7. Heights of 193 students (in cm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	124 - 130	130 - 136	136 - 142	142 - 148	148 - 154	154 - 160	160 - 166
No. of students	46	24	20	27	14	41	17

(ii)

Height (in cm)	124 - 130	130 - 136	136 - 142	142 - 148	148 - 154	154 - 160	160 - 166
No. of students	46	17	24	27	14	41	24

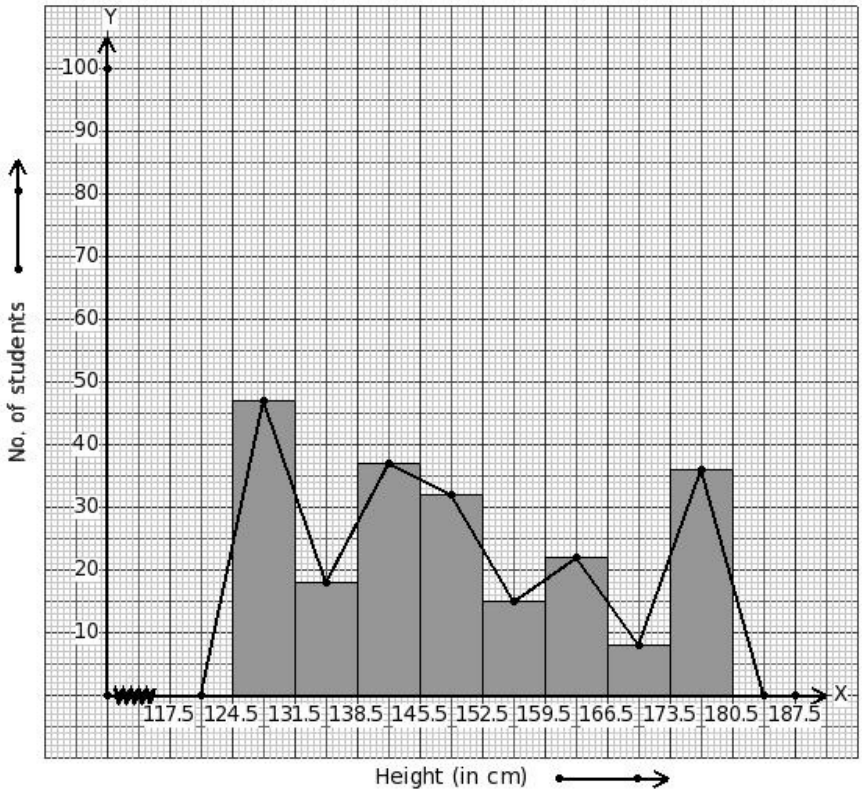
(iii)

Height (in cm)	124 - 130	130 - 136	136 - 142	142 - 148	148 - 154	154 - 160	160 - 166
No. of students	46	24	24	23	14	41	17

(iv)

Height (in cm)	124 - 130	130 - 136	136 - 142	142 - 148	148 - 154	154 - 160	160 - 166
No. of students	46	24	24	27	14	41	17

8. Heights of 215 students (in cm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159	160 - 166	167 - 173	174 - 180
No. of students	47	18	32	37	15	22	8	36

(ii)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159	160 - 166	167 - 173	174 - 180
No. of students	47	18	37	32	12	22	8	36

(iii)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159	160 - 166	167 - 173	174 - 180
No. of students	47	36	37	32	15	22	8	18

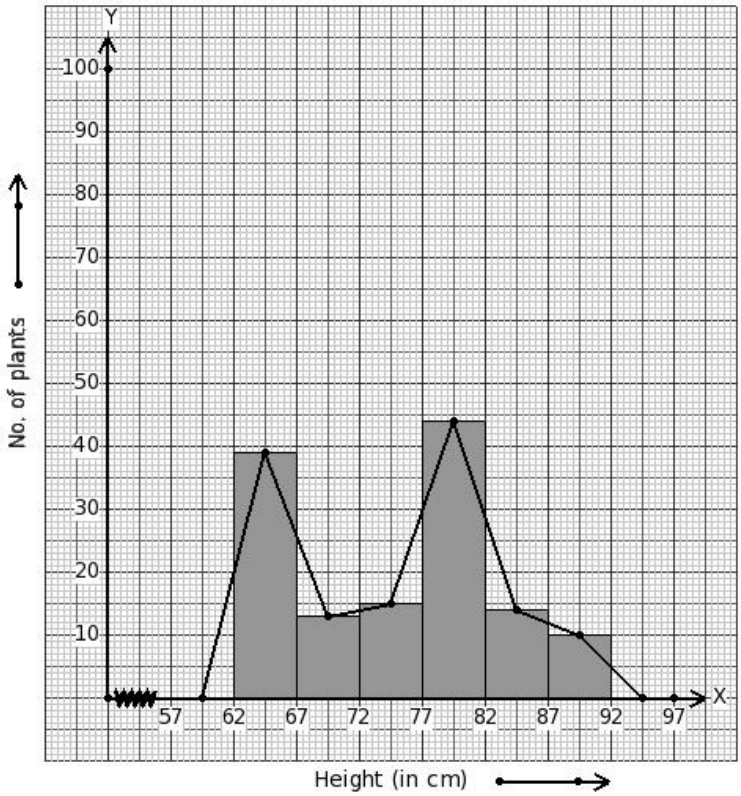
(iv)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159	160 - 166	167 - 173	174 - 180
No. of students	47	18	35	32	15	22	8	36

(v)

Height (in cm)	125 - 131	132 - 138	139 - 145	146 - 152	153 - 159	160 - 166	167 - 173	174 - 180
No. of students	47	18	37	32	15	22	8	36

9. Heights of 135 plants (in cm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	62 - 67	67 - 72	72 - 77	77 - 82	82 - 87	87 - 92
No. of plants	39	13	15	44	14	10

(ii)

Height (in cm)	62 - 67	67 - 72	72 - 77	77 - 82	82 - 87	87 - 92
No. of plants	39	15	13	44	14	10

(iii)

Height (in cm)	62 - 67	67 - 72	72 - 77	77 - 82	82 - 87	87 - 92
No. of plants	39	10	15	44	14	13

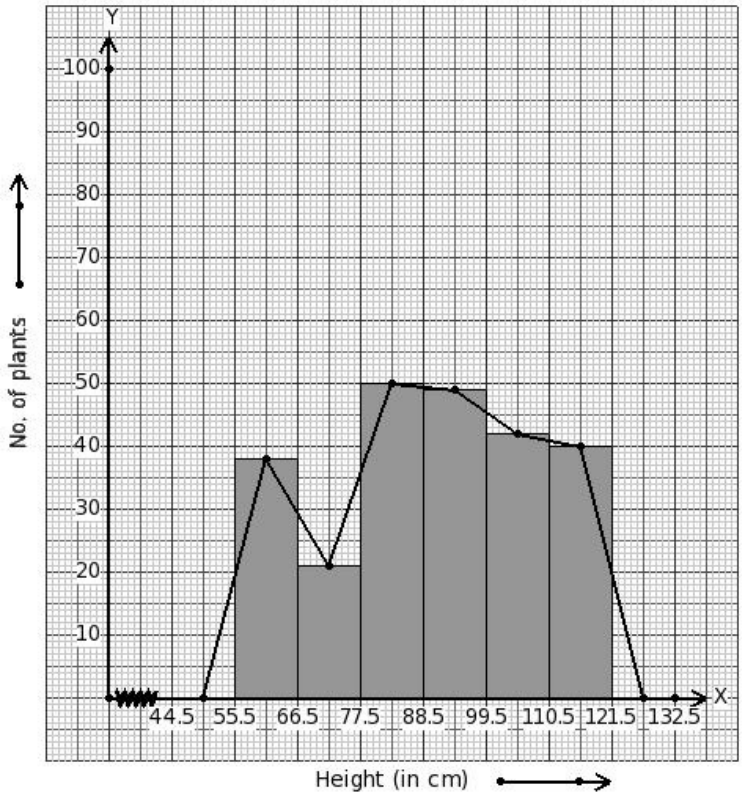
(iv)

Height (in cm)	62 - 67	67 - 72	72 - 77	77 - 82	82 - 87	87 - 92
No. of plants	39	13	15	39	14	10

(v)

Height (in cm)	62 - 67	67 - 72	72 - 77	77 - 82	82 - 87	87 - 92
No. of plants	39	13	12	44	14	10

10. Heights of 240 plants (in cm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	56 - 66	67 - 77	78 - 88	89 - 99	100 - 110	111 - 121
No. of plants	38	21	50	47	42	40

(ii)

Height (in cm)	56 - 66	67 - 77	78 - 88	89 - 99	100 - 110	111 - 121
No. of plants	38	40	50	49	42	21

(iii)

Height (in cm)	56 - 66	67 - 77	78 - 88	89 - 99	100 - 110	111 - 121
No. of plants	38	21	45	49	42	40

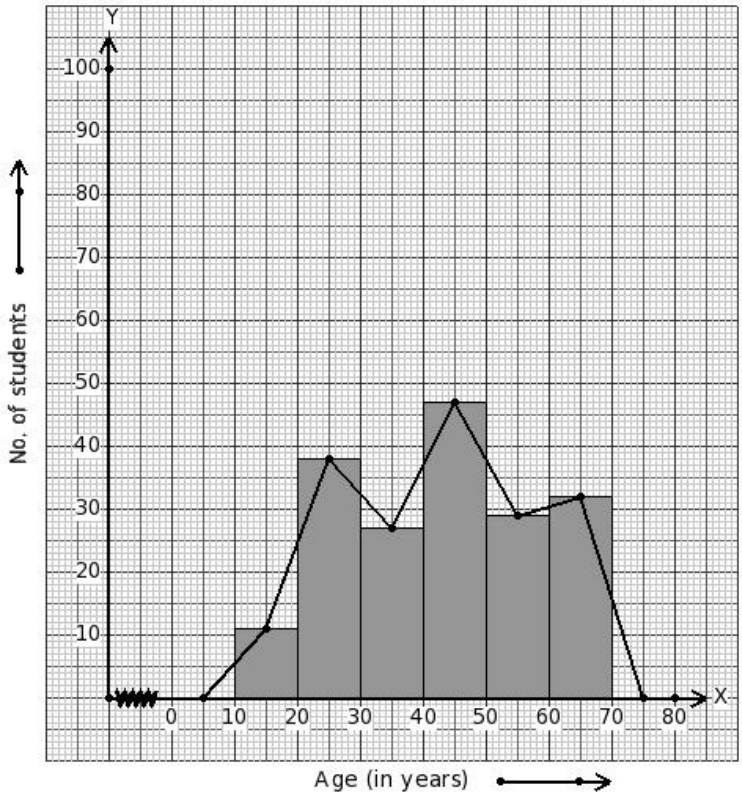
(iv)

Height (in cm)	56 - 66	67 - 77	78 - 88	89 - 99	100 - 110	111 - 121
No. of plants	38	50	21	49	42	40

(v)

Height (in cm)	56 - 66	67 - 77	78 - 88	89 - 99	100 - 110	111 - 121
No. of plants	38	21	50	49	42	40

11. Ages of 184 students (in years) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	11	27	38	47	29	32

(ii)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	11	38	27	45	29	32

(iii)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	11	32	27	47	29	38

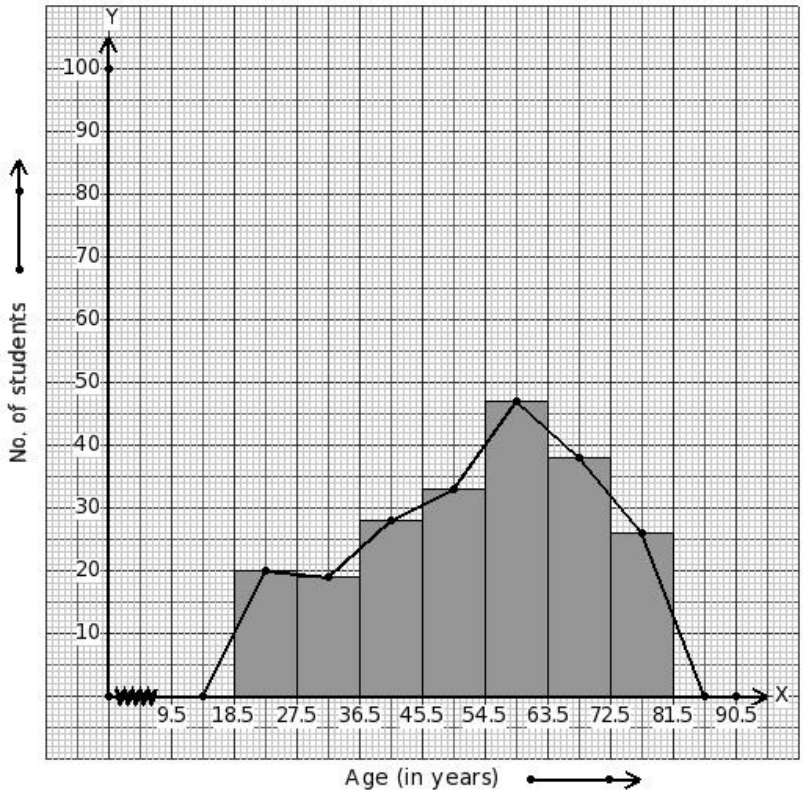
(iv)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	11	38	27	47	29	32

(v)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	11	38	22	47	29	32

12. Ages of 211 students (in years) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72	73 - 81
No. of students	20	19	28	33	47	38	26

(ii)

Age (in years)	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72	73 - 81
No. of students	20	28	19	33	47	38	26

(iii)

Age (in years)	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72	73 - 81
No. of students	20	19	25	33	47	38	26

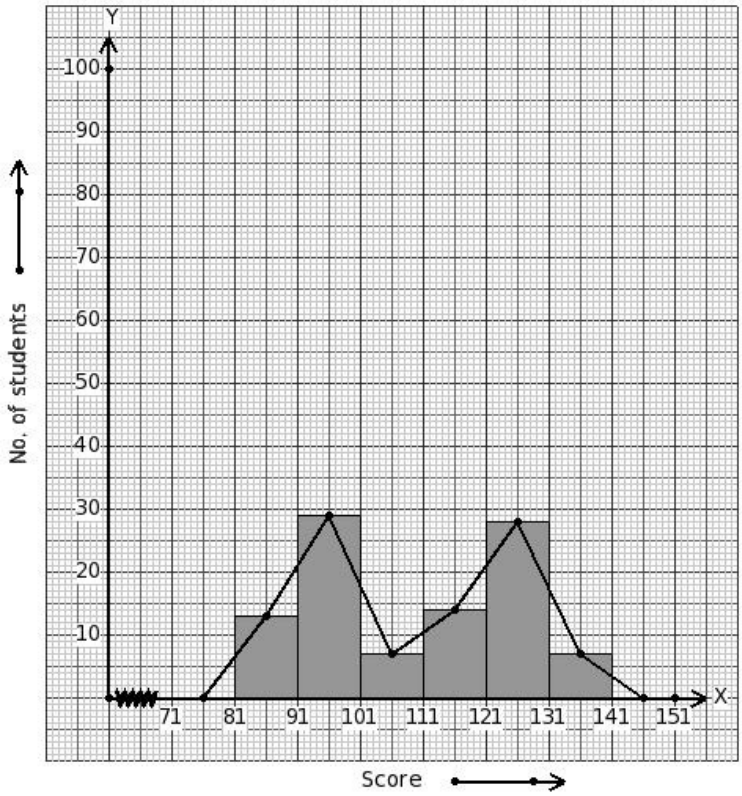
(iv)

Age (in years)	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72	73 - 81
No. of students	20	19	28	30	47	38	26

(v)

Age (in years)	19 - 27	28 - 36	37 - 45	46 - 54	55 - 63	64 - 72	73 - 81
No. of students	20	26	28	33	47	38	19

13. Scores of 98 students are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Score	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131	131 - 141
No. of students	13	7	7	14	28	29

(ii)

Score	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131	131 - 141
No. of students	13	29	7	17	28	7

(iii)

Score	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131	131 - 141
No. of students	13	29	7	14	28	7

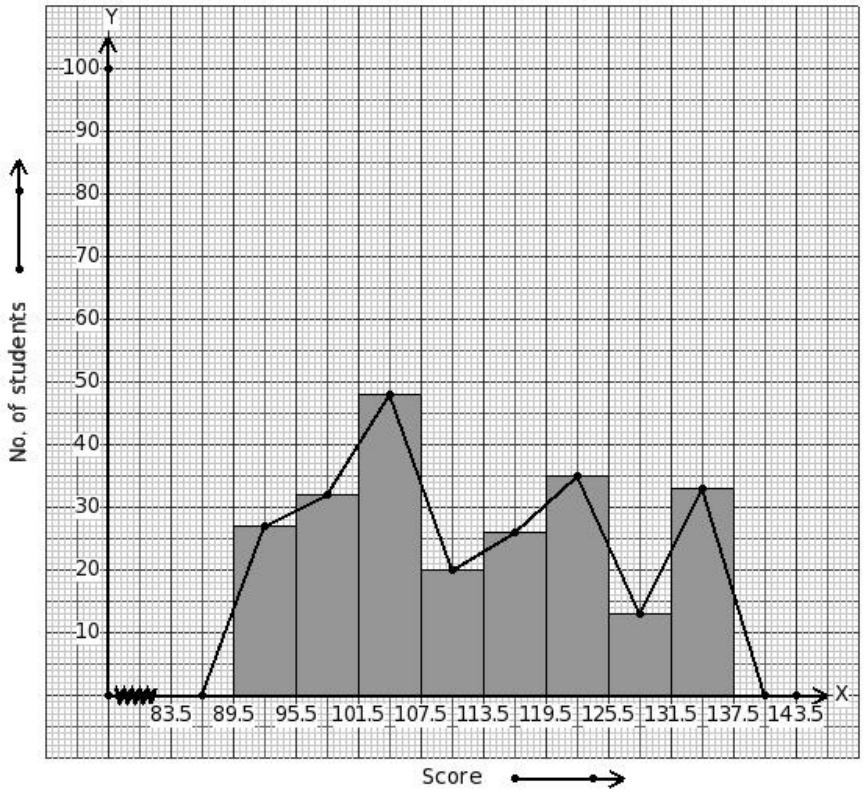
(iv)

Score	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131	131 - 141
No. of students	13	7	29	14	28	7

(v)

Score	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131	131 - 141
No. of students	13	29	4	14	28	7

14. Scores of 234 students are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Score	90 - 95	96 - 101	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131	132 - 137
No. of students	27	32	20	48	26	35	13	33

(ii)

Score	90 - 95	96 - 101	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131	132 - 137
No. of students	27	32	46	20	26	35	13	33

(iii)

Score	90 - 95	96 - 101	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131	132 - 137
No. of students	27	33	48	20	26	35	13	32

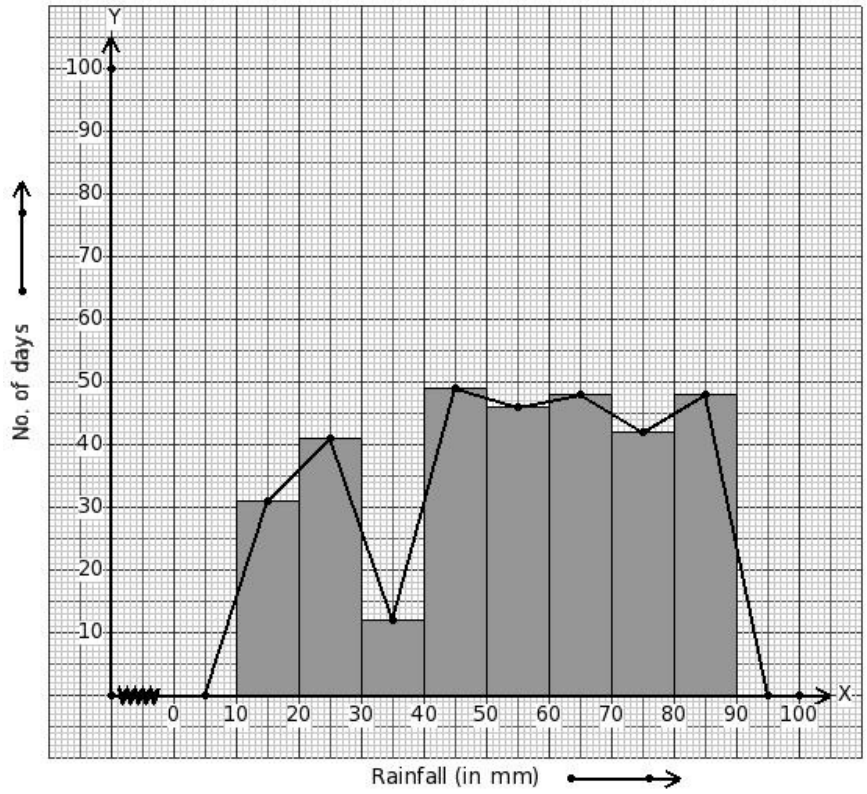
(iv)

Score	90 - 95	96 - 101	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131	132 - 137
No. of students	27	32	48	20	29	35	13	33

(v)

Score	90 - 95	96 - 101	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131	132 - 137
No. of students	27	32	48	20	26	35	13	33

15. Rainfall of 317 days (in mm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Rainfall (in mm)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of days	31	41	12	49	46	48	42	48

(ii)

Rainfall (in mm)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of days	31	41	12	49	51	48	42	48

(iii)

Rainfall (in mm)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of days	31	48	12	49	46	48	42	41

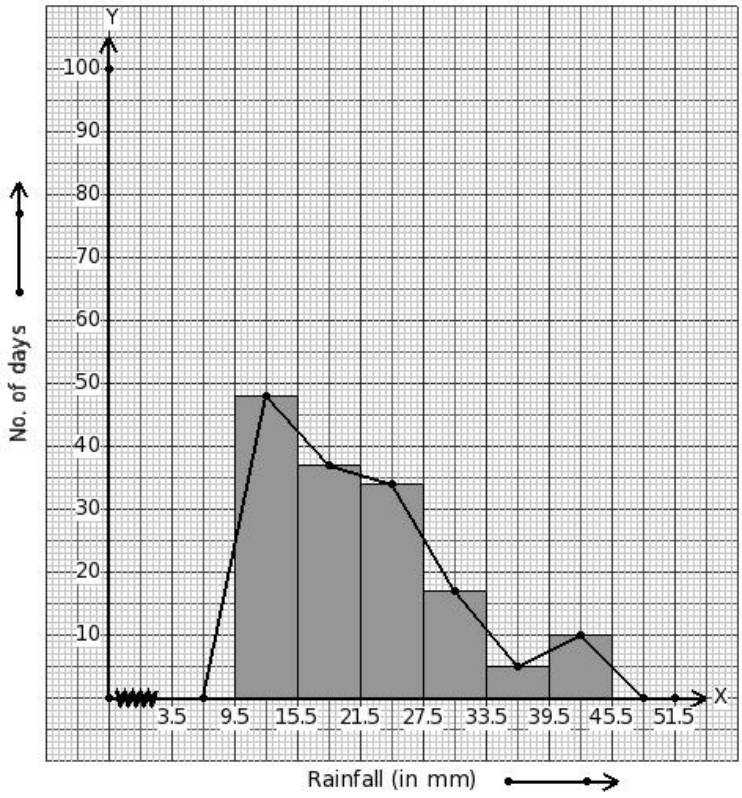
(iv)

Rainfall (in mm)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of days	31	41	15	49	46	48	42	48

(v)

Rainfall (in mm)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of days	31	41	49	12	46	48	42	48

16. Rainfall of 151 days (in mm) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Rainfall (in mm)	10 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45
No. of days	48	37	29	17	5	10

(ii)

Rainfall (in mm)	10 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45
No. of days	48	37	34	15	5	10

(iii)

Rainfall (in mm)	10 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45
No. of days	48	10	34	17	5	37

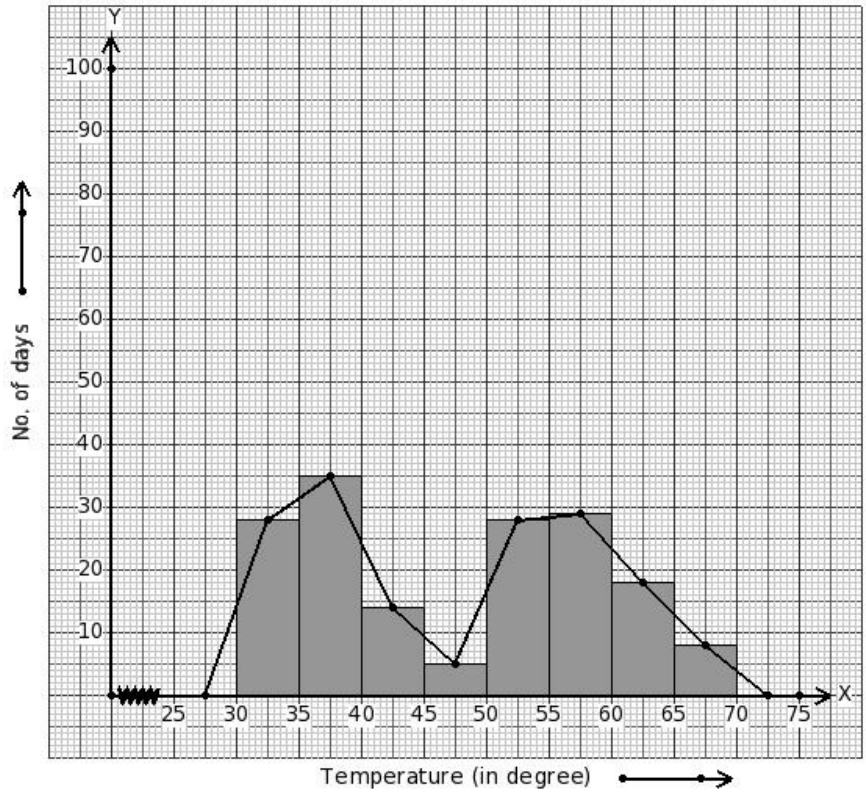
(iv)

Rainfall (in mm)	10 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45
No. of days	48	37	34	17	5	10

(v)

Rainfall (in mm)	10 - 15	16 - 21	22 - 27	28 - 33	34 - 39	40 - 45
No. of days	48	34	37	17	5	10

17. Temperatures of 165 days (in °C) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Temperature (in degree)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70
No. of days	28	35	14	5	31	29	18	8

(ii)

Temperature (in degree)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70
No. of days	28	35	9	5	28	29	18	8

(iii)

Temperature (in degree)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70
No. of days	28	35	5	14	28	29	18	8

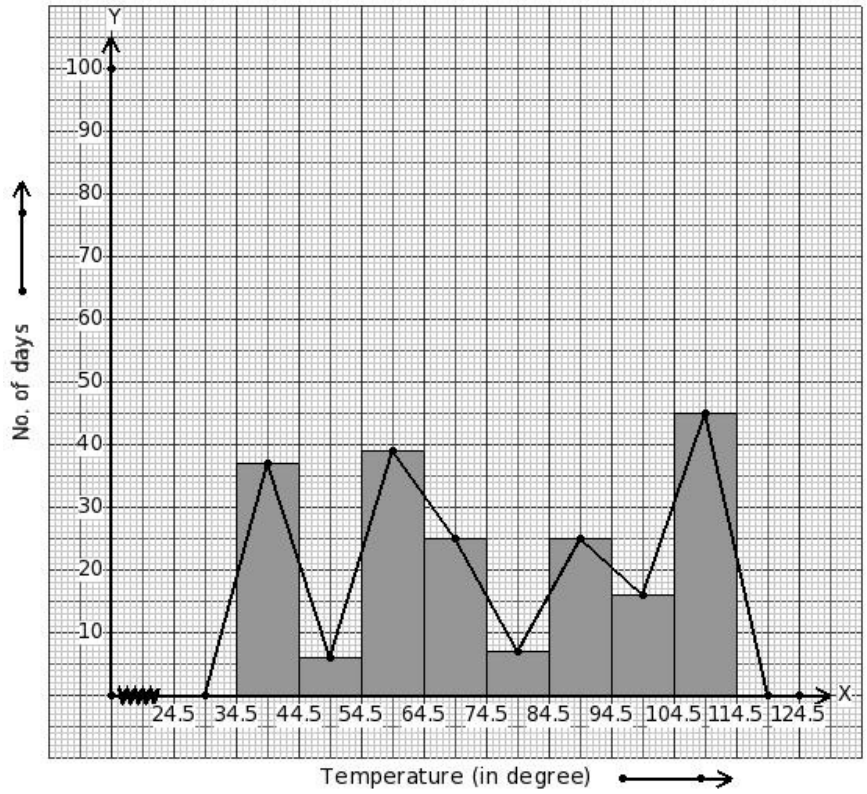
(iv)

Temperature (in degree)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70
No. of days	28	35	14	5	28	29	18	8

(v)

Temperature (in degree)	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70
No. of days	28	8	14	5	28	29	18	35

18. Temperatures of 200 days (in °C) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Temperature (in degree)	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94	95 - 104	105 - 114
No. of days	37	6	25	39	7	25	16	45

(ii)

Temperature (in degree)	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94	95 - 104	105 - 114
No. of days	37	6	39	25	7	25	16	45

(iii)

Temperature (in degree)	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94	95 - 104	105 - 114
No. of days	37	6	35	25	7	25	16	45

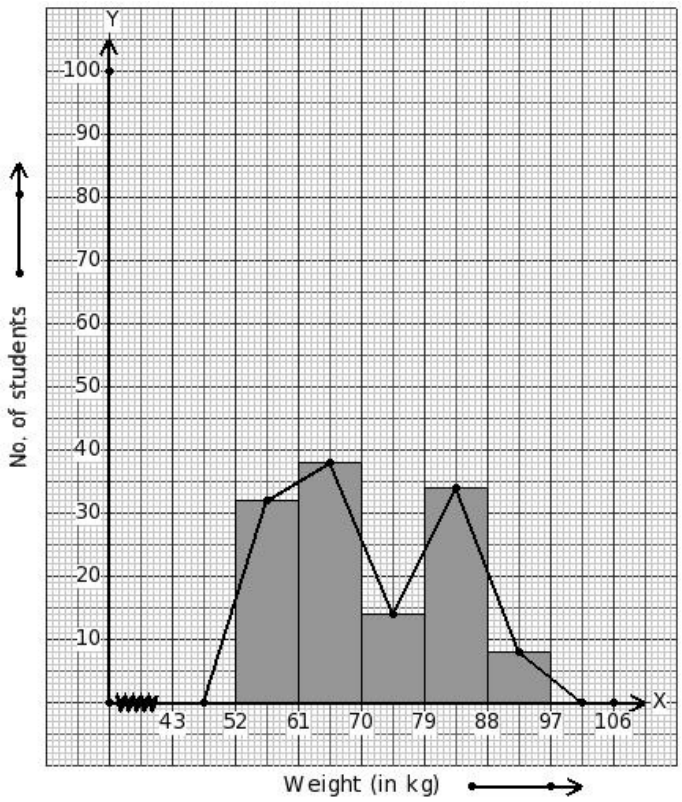
(iv)

Temperature (in degree)	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94	95 - 104	105 - 114
No. of days	37	45	39	25	7	25	16	6

(v)

Temperature (in degree)	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94	95 - 104	105 - 114
No. of days	37	6	39	25	9	25	16	45

19. Weights of 126 students (in kg) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Weight (in kg)	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
No. of students	32	38	14	34	8

(ii)

Weight (in kg)	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
No. of students	32	8	14	34	38

(iii)

Weight (in kg)	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
No. of students	32	38	12	34	8

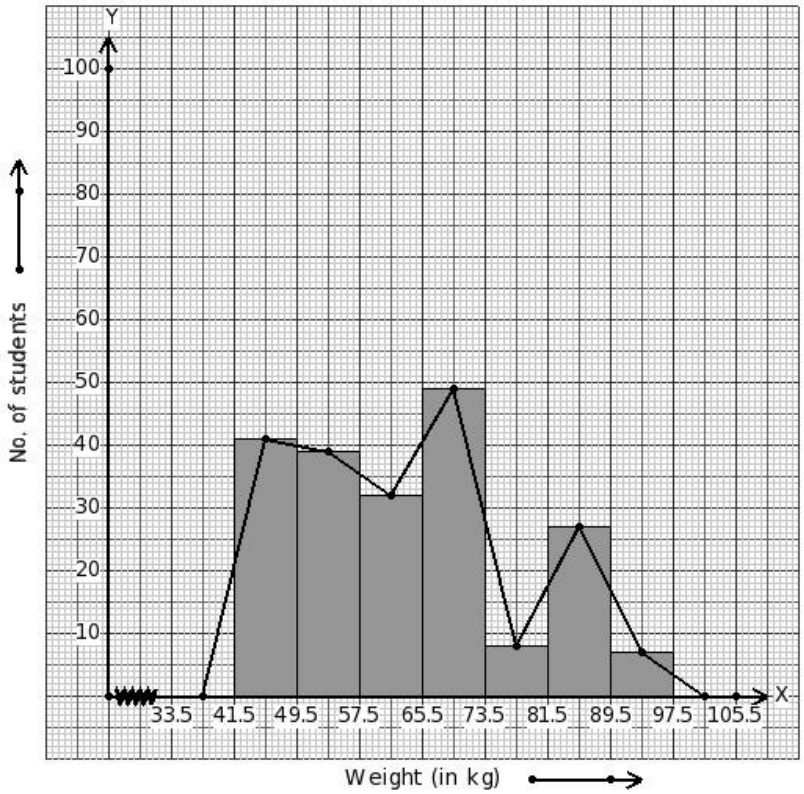
(iv)

Weight (in kg)	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
No. of students	32	42	14	34	8

(v)

Weight (in kg)	52 - 61	61 - 70	70 - 79	79 - 88	88 - 97
No. of students	32	14	38	34	8

20. Weights of 203 students (in kg) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Weight (in kg)	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81	82 - 89	90 - 97
No. of students	41	32	39	49	8	27	7

(ii)

Weight (in kg)	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81	82 - 89	90 - 97
No. of students	41	39	32	47	8	27	7

(iii)

Weight (in kg)	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81	82 - 89	90 - 97
No. of students	41	7	32	49	8	27	39

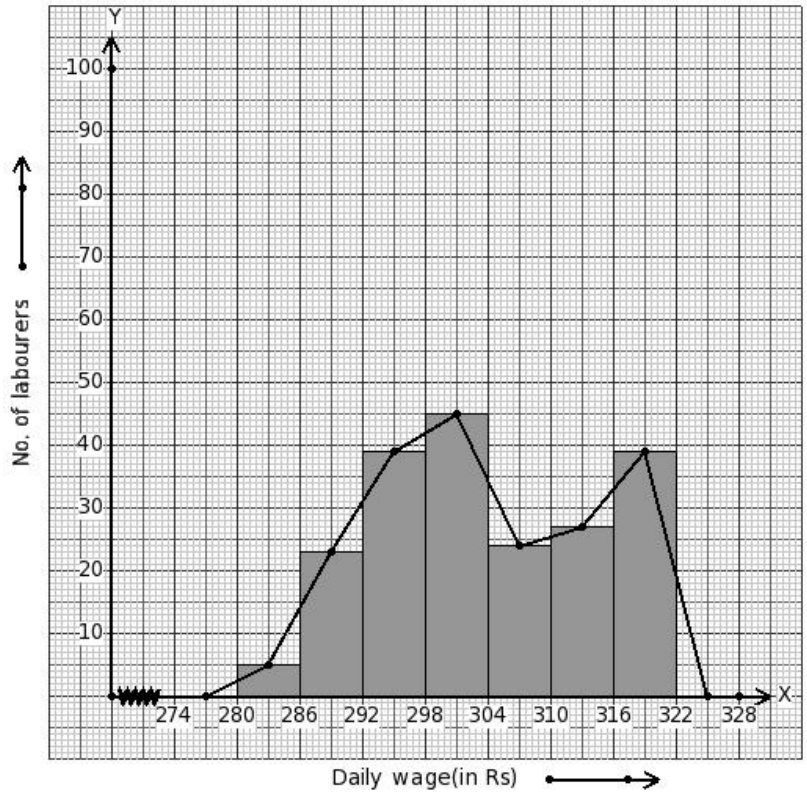
(iv)

Weight (in kg)	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81	82 - 89	90 - 97
No. of students	41	39	32	49	8	27	7

(v)

Weight (in kg)	42 - 49	50 - 57	58 - 65	66 - 73	74 - 81	82 - 89	90 - 97
No. of students	41	39	27	49	8	27	7

21. Daily wages of 202 labourers (in ₹) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Daily wage(in Rs)	280 - 286	286 - 292	292 - 298	298 - 304	304 - 310	310 - 316	316 - 322
No. of labourers	5	39	39	45	24	27	23

(ii)

Daily wage(in Rs)	280 - 286	286 - 292	292 - 298	298 - 304	304 - 310	310 - 316	316 - 322
No. of labourers	5	23	39	41	24	27	39

(iii)

Daily wage(in Rs)	280 - 286	286 - 292	292 - 298	298 - 304	304 - 310	310 - 316	316 - 322
No. of labourers	5	39	23	45	24	27	39

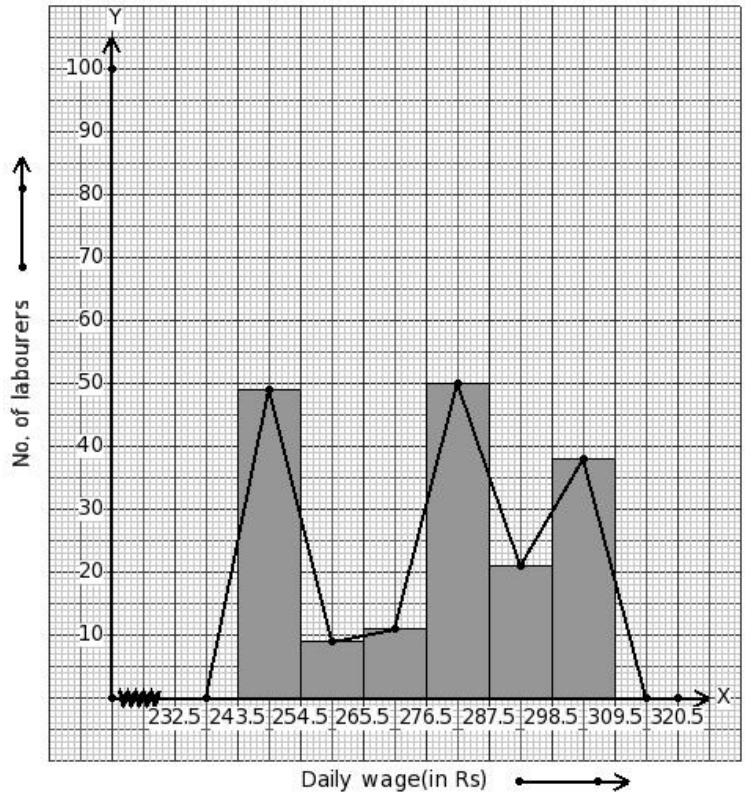
(iv)

Daily wage(in Rs)	280 - 286	286 - 292	292 - 298	298 - 304	304 - 310	310 - 316	316 - 322
No. of labourers	5	23	39	45	24	27	39

(v)

Daily wage(in Rs)	280 - 286	286 - 292	292 - 298	298 - 304	304 - 310	310 - 316	316 - 322
No. of labourers	5	23	44	45	24	27	39

22. Daily wages of 178 labourers (in ₹) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Daily wage(in Rs)	244 - 254	255 - 265	266 - 276	277 - 287	288 - 298	299 - 309
No. of labourers	49	9	11	45	21	38

(ii)

Daily wage(in Rs)	244 - 254	255 - 265	266 - 276	277 - 287	288 - 298	299 - 309
No. of labourers	49	11	9	50	21	38

(iii)

Daily wage(in Rs)	244 - 254	255 - 265	266 - 276	277 - 287	288 - 298	299 - 309
No. of labourers	49	9	11	50	21	38

(iv)

Daily wage(in Rs)	244 - 254	255 - 265	266 - 276	277 - 287	288 - 298	299 - 309
No. of labourers	49	9	14	50	21	38

(v)

Daily wage(in Rs)	244 - 254	255 - 265	266 - 276	277 - 287	288 - 298	299 - 309
No. of labourers	49	38	11	50	21	9

Assignment Key

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

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