EduSahara™ Learning Center Assignment

Grade : Class IX, ICSE
Chapter : Graphical Representation of Statistical Data
Name : Histogram and Frequency Polygon on the same Graph

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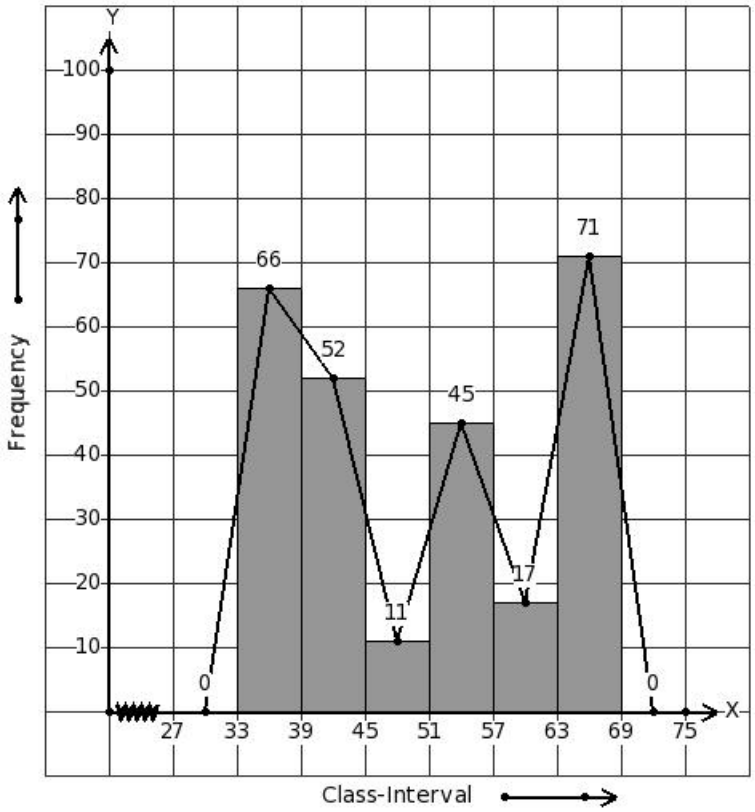
1. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Class-Interval	33 - 39	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	66	52	11	50	17	71

(ii)

Class-Interval	33 - 39	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	66	52	16	45	17	71

(iii)

Class-Interval	33 - 39	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	66	52	11	45	17	71

(iv)

Class-Interval	33 - 39	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	66	71	11	45	17	52

(v)

Class-Interval	33 - 39	39 - 45	45 - 51	51 - 57	57 - 63	63 - 69
Frequency	66	11	52	45	17	71

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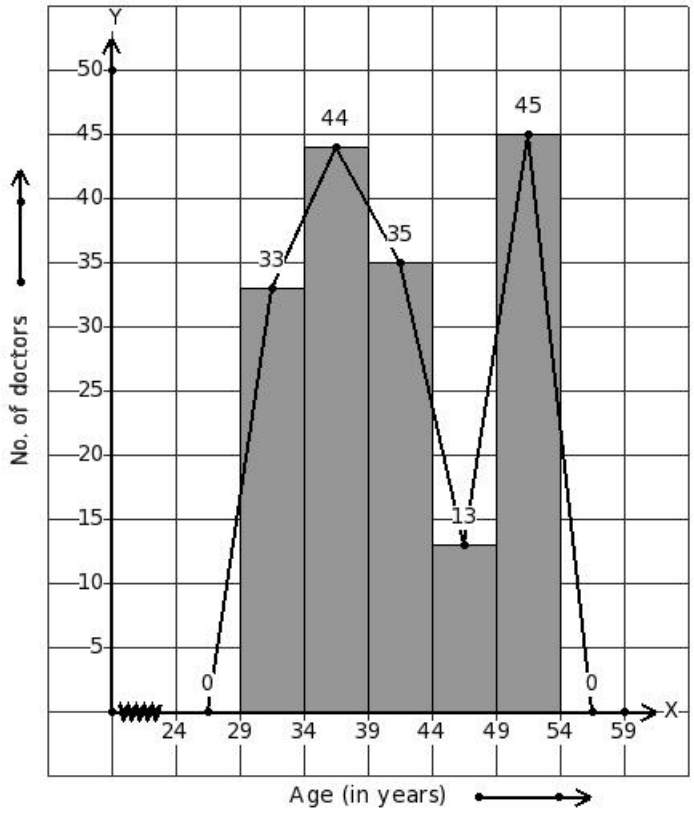
2. Given the number of doctors working in government hospitals in a city in various age groups. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of doctors	33	44	35	13	45

(ii)

Age (in years)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of doctors	33	45	35	13	44

(iii)

Age (in years)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of doctors	33	44	33	13	45

(iv)

Age (in years)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of doctors	33	35	44	13	45

(v)

Age (in years)	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of doctors	33	49	35	13	45

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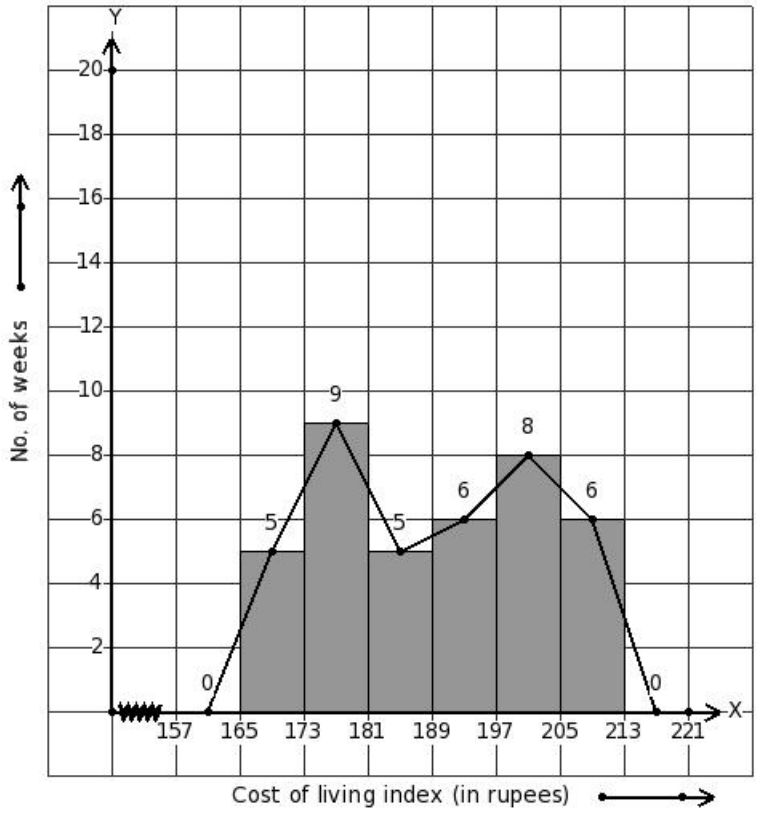
3. Given below is the cost of living index for a particular year in a city. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Cost of living index (in rupees)	165 - 173	173 - 181	181 - 189	189 - 197	197 - 205	205 - 213
No. of weeks	5	5	9	6	8	6

(ii)

Cost of living index (in rupees)	165 - 173	173 - 181	181 - 189	189 - 197	197 - 205	205 - 213
No. of weeks	5	9	5	6	8	6

(iii)

Cost of living index (in rupees)	165 - 173	173 - 181	181 - 189	189 - 197	197 - 205	205 - 213
No. of weeks	5	9	5	2	8	6

(iv)

Cost of living index (in rupees)	165 - 173	173 - 181	181 - 189	189 - 197	197 - 205	205 - 213
No. of weeks	5	6	5	6	8	9

(v)

Cost of living index (in rupees)	165 - 173	173 - 181	181 - 189	189 - 197	197 - 205	205 - 213
No. of weeks	5	9	10	6	8	6

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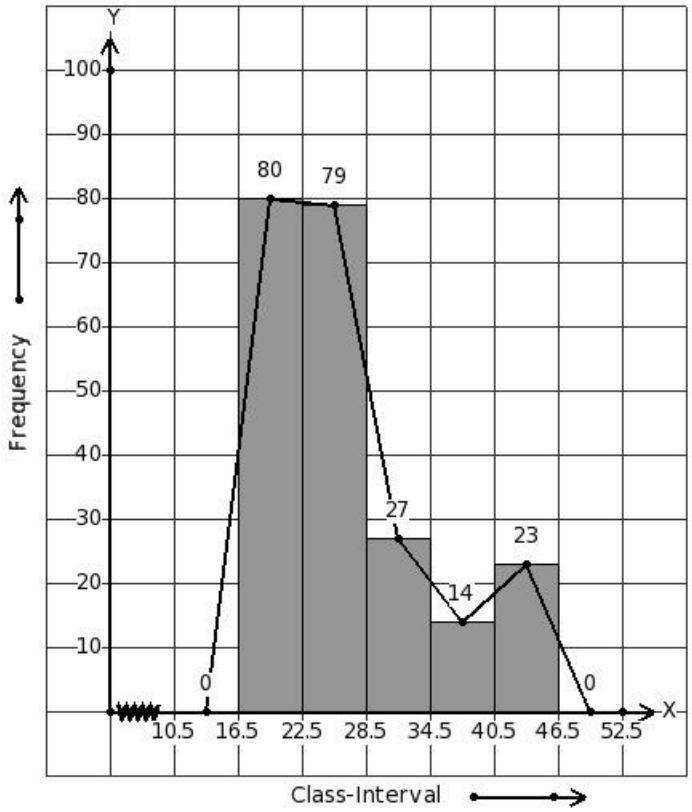
4. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Class-Interval	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
Frequency	80	79	31	14	23

(ii)

Class-Interval	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
Frequency	80	23	27	14	79

(iii)

Class-Interval	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
Frequency	80	82	27	14	23

(iv)

Class-Interval	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
Frequency	80	27	79	14	23

(v)

Class-Interval	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
Frequency	80	79	27	14	23

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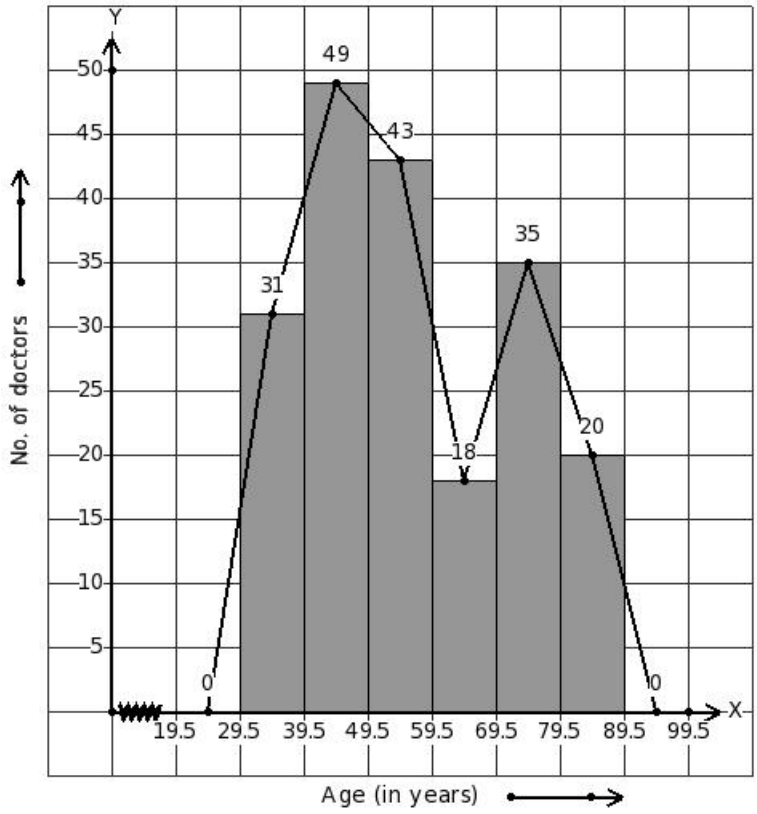
5. Given the number of doctors working in government hospitals in a city in various age groups. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
No. of doctors	31	49	43	13	35	20

(ii)

Age (in years)	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
No. of doctors	31	20	43	18	35	49

(iii)

Age (in years)	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
No. of doctors	31	43	49	18	35	20

(iv)

Age (in years)	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
No. of doctors	31	49	43	18	35	20

(v)

Age (in years)	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89
No. of doctors	31	49	41	18	35	20

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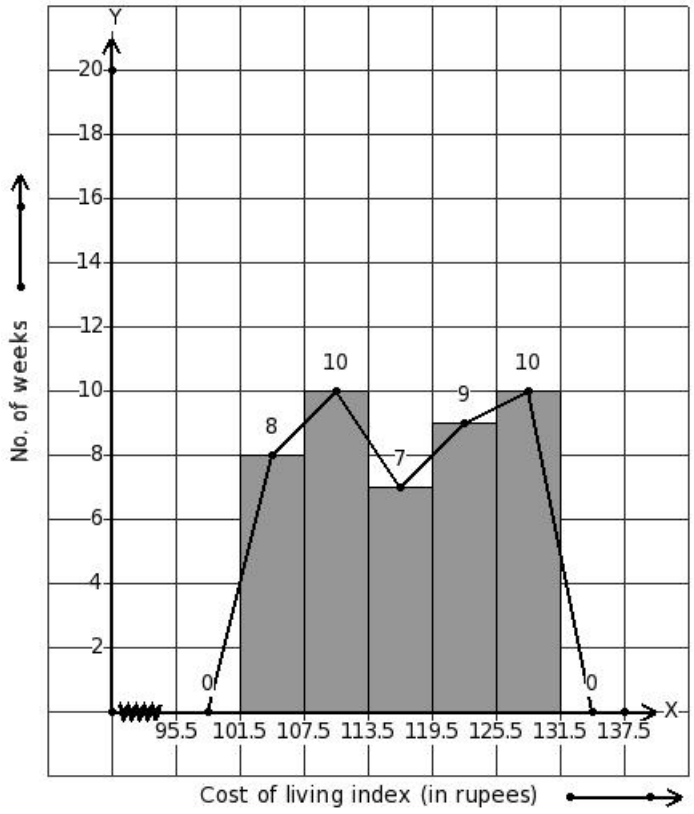
6. Given below is the cost of living index for a particular year in a city. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Cost of living index (in rupees)	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131
No. of weeks	8	7	10	9	10

(ii)

Cost of living index (in rupees)	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131
No. of weeks	8	12	7	9	10

(iii)

Cost of living index (in rupees)	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131
No. of weeks	8	10	7	9	10

(iv)

Cost of living index (in rupees)	102 - 107	108 - 113	114 - 119	120 - 125	126 - 131
No. of weeks	8	10	11	9	10

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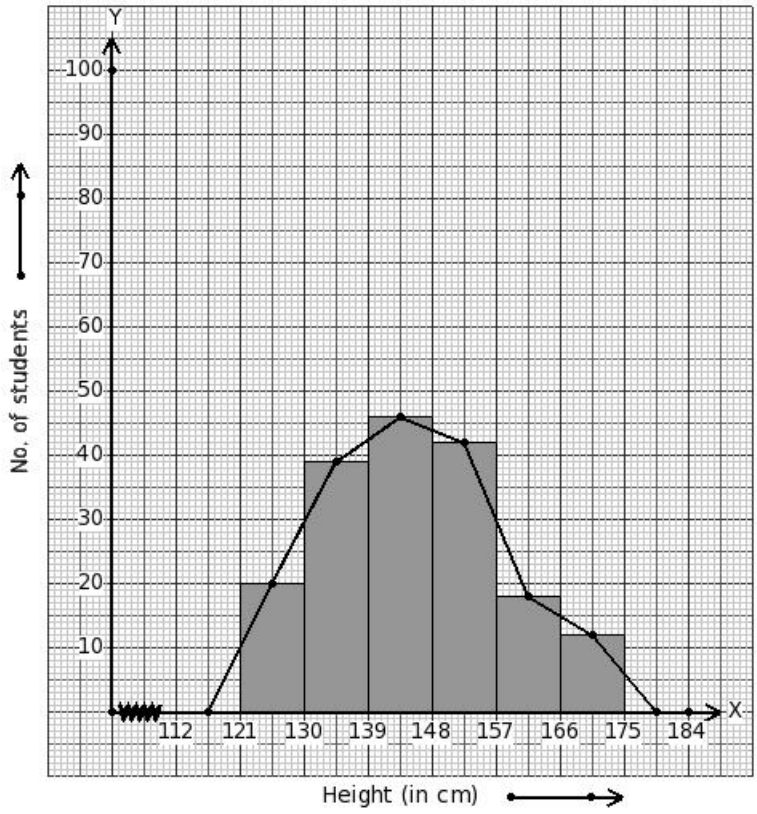
7. Heights of 177 students (in cm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166	166 - 175
No. of students	20	39	46	42	18	12

(ii)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166	166 - 175
No. of students	20	39	46	47	18	12

(iii)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166	166 - 175
No. of students	20	46	39	42	18	12

(iv)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166	166 - 175
No. of students	20	12	46	42	18	39

(v)

Height (in cm)	121 - 130	130 - 139	139 - 148	148 - 157	157 - 166	166 - 175
No. of students	20	39	44	42	18	12

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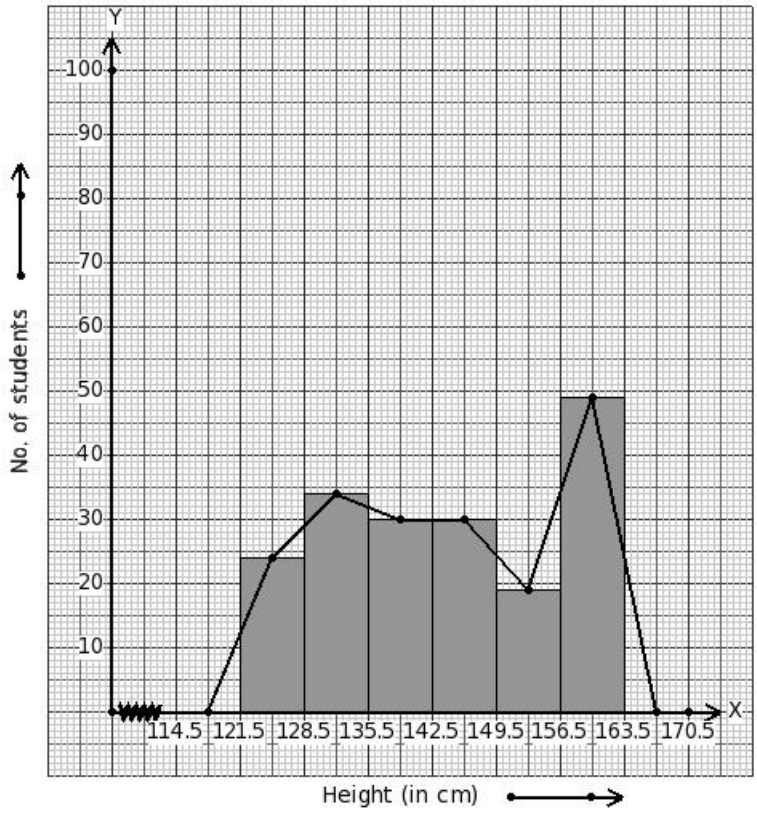
8. Heights of 186 students (in cm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	122 - 128	129 - 135	136 - 142	143 - 149	150 - 156	157 - 163
No. of students	24	30	34	30	19	49

(ii)

Height (in cm)	122 - 128	129 - 135	136 - 142	143 - 149	150 - 156	157 - 163
No. of students	24	34	30	30	19	49

(iii)

Height (in cm)	122 - 128	129 - 135	136 - 142	143 - 149	150 - 156	157 - 163
No. of students	24	34	30	34	19	49

(iv)

Height (in cm)	122 - 128	129 - 135	136 - 142	143 - 149	150 - 156	157 - 163
No. of students	24	34	35	30	19	49

(v)

Height (in cm)	122 - 128	129 - 135	136 - 142	143 - 149	150 - 156	157 - 163
No. of students	24	49	30	30	19	34

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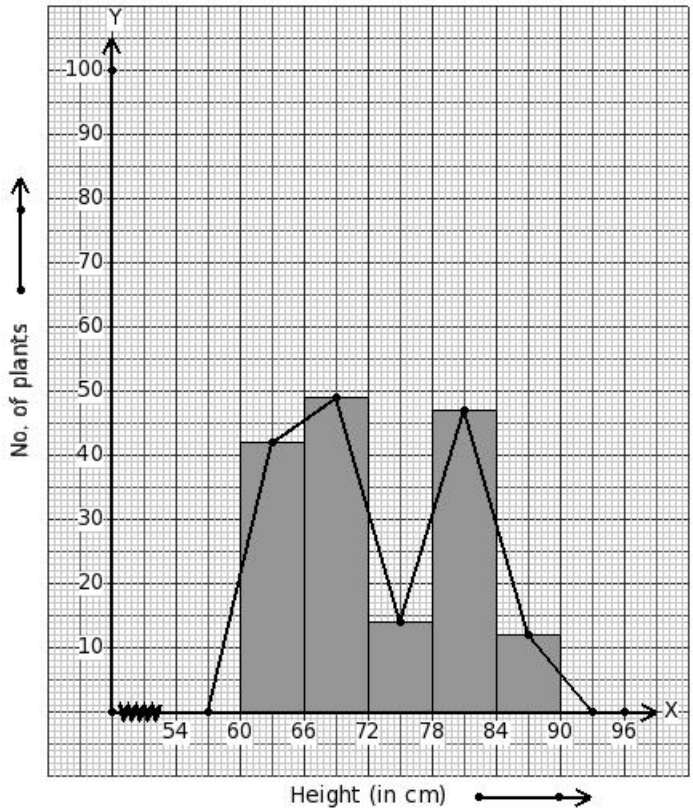
9. Heights of 164 plants (in cm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	60 - 66	66 - 72	72 - 78	78 - 84	84 - 90
No. of plants	42	49	14	47	12

(ii)

Height (in cm)	60 - 66	66 - 72	72 - 78	78 - 84	84 - 90
No. of plants	42	49	10	47	12

(iii)

Height (in cm)	60 - 66	66 - 72	72 - 78	78 - 84	84 - 90
No. of plants	42	12	14	47	49

(iv)

Height (in cm)	60 - 66	66 - 72	72 - 78	78 - 84	84 - 90
No. of plants	42	46	14	47	12

(v)

Height (in cm)	60 - 66	66 - 72	72 - 78	78 - 84	84 - 90
No. of plants	42	14	49	47	12

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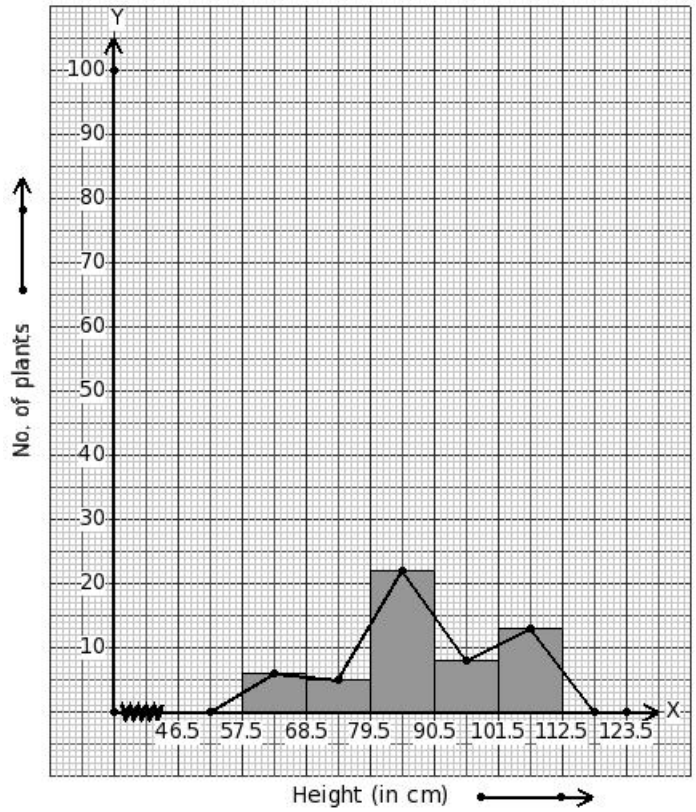
10. Heights of 54 plants (in cm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Height (in cm)	58 - 68	69 - 79	80 - 90	91 - 101	102 - 112
No. of plants	6	22	5	8	13

(ii)

Height (in cm)	58 - 68	69 - 79	80 - 90	91 - 101	102 - 112
No. of plants	6	5	22	8	13

(iii)

Height (in cm)	58 - 68	69 - 79	80 - 90	91 - 101	102 - 112
No. of plants	6	13	22	8	5

(iv)

Height (in cm)	58 - 68	69 - 79	80 - 90	91 - 101	102 - 112
No. of plants	6	5	20	8	13

(v)

Height (in cm)	58 - 68	69 - 79	80 - 90	91 - 101	102 - 112
No. of plants	6	2	22	8	13

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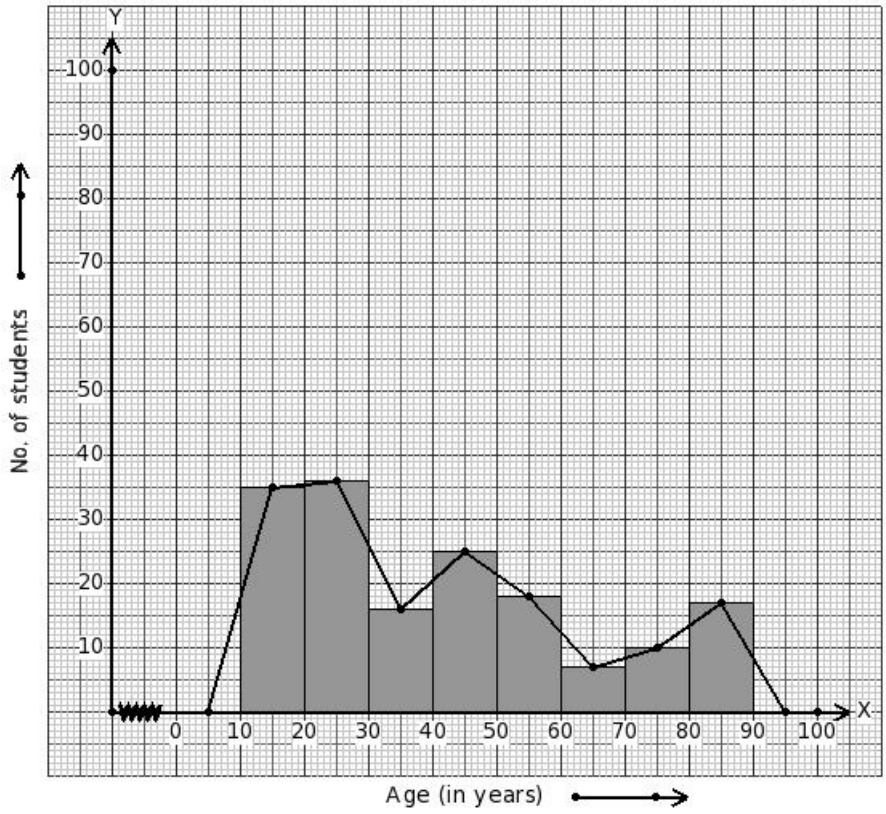
11. Ages of 164 students (in years) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of students	35	36	25	16	18	7	10	17

(ii)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of students	35	36	11	25	18	7	10	17

(iii)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of students	35	36	16	25	13	7	10	17

(iv)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of students	35	36	16	25	18	7	10	17

(v)

Age (in years)	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of students	35	17	16	25	18	7	10	36

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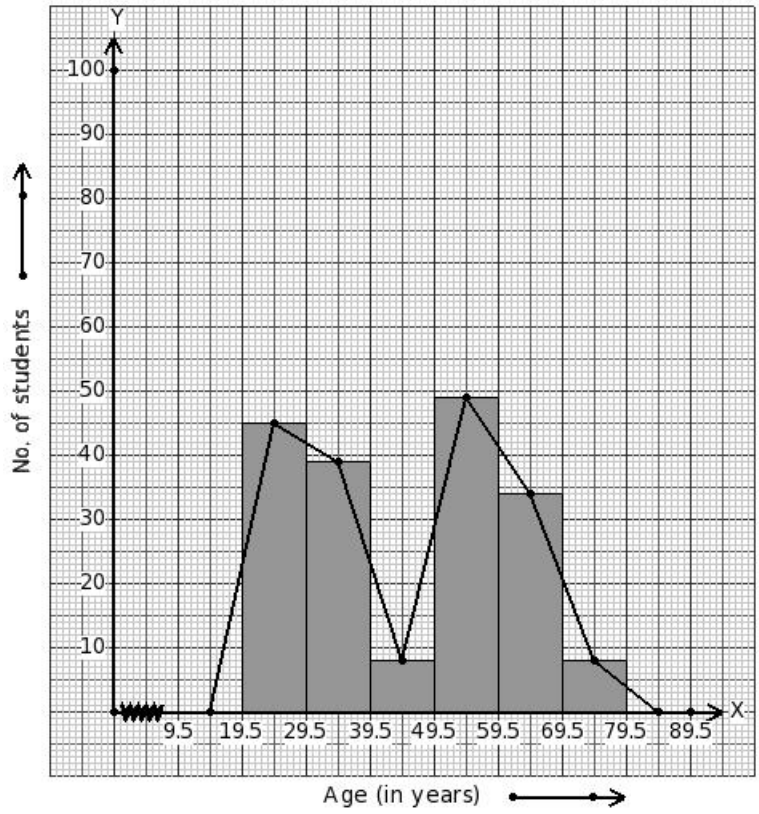
12. Ages of 183 students (in years) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Age (in years)	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of students	45	39	13	49	34	8

(ii)

Age (in years)	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of students	45	39	8	49	34	8

(iii)

Age (in years)	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of students	45	8	39	49	34	8

(iv)

Age (in years)	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of students	45	39	8	54	34	8

(v)

Age (in years)	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79
No. of students	45	8	8	49	34	39

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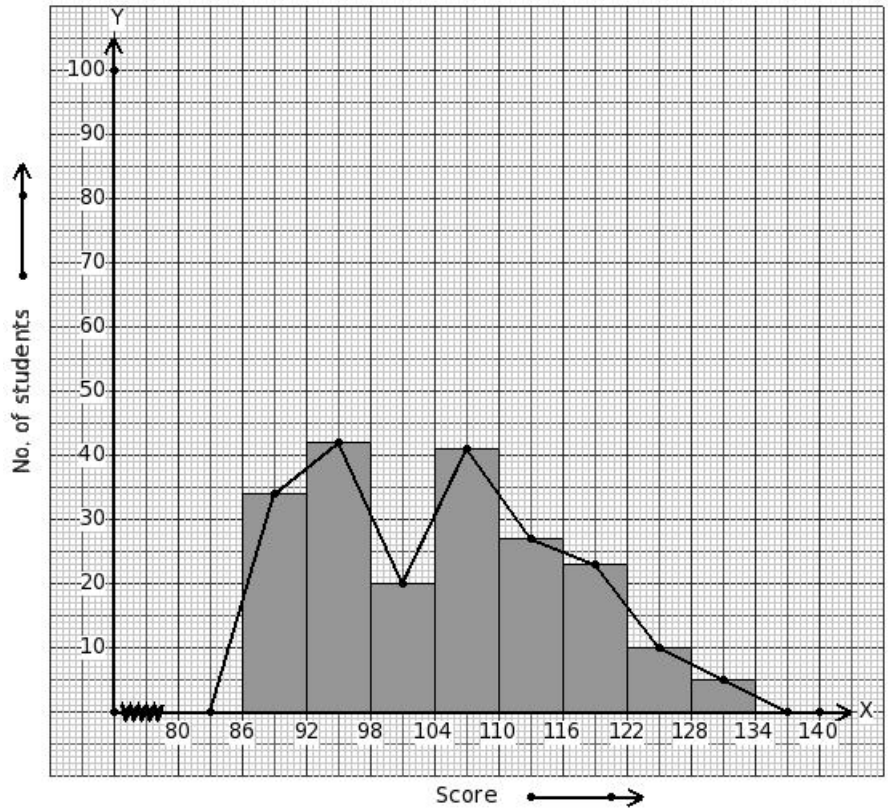
13. Scores of 202 students are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Score	86 - 92	92 - 98	98 - 104	104 - 110	110 - 116	116 - 122	122 - 128	128 - 134
No. of students	34	42	41	20	27	23	10	5

(ii)

Score	86 - 92	92 - 98	98 - 104	104 - 110	110 - 116	116 - 122	122 - 128	128 - 134
No. of students	34	42	20	41	22	23	10	5

(iii)

Score	86 - 92	92 - 98	98 - 104	104 - 110	110 - 116	116 - 122	122 - 128	128 - 134
No. of students	34	42	15	41	27	23	10	5

(iv)

Score	86 - 92	92 - 98	98 - 104	104 - 110	110 - 116	116 - 122	122 - 128	128 - 134
No. of students	34	5	20	41	27	23	10	42

(v)

Score	86 - 92	92 - 98	98 - 104	104 - 110	110 - 116	116 - 122	122 - 128	128 - 134
No. of students	34	42	20	41	27	23	10	5

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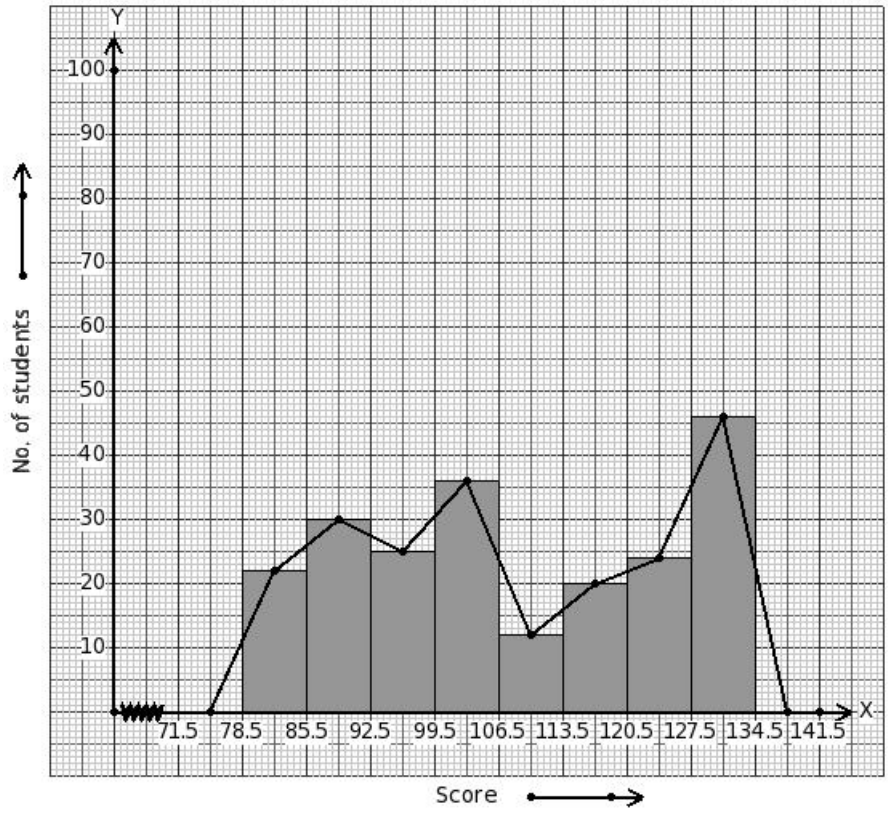
14. Scores of 215 students are given Identify the class interval table for the given histogram and frequency polygon below. on the same graph.



(i)

Score	79 - 85	86 - 92	93 - 99	100 - 106	107 - 113	114 - 120	121 - 127	128 - 134
No. of students	22	30	36	25	12	20	24	46

(ii)

Score	79 - 85	86 - 92	93 - 99	100 - 106	107 - 113	114 - 120	121 - 127	128 - 134
No. of students	22	46	25	36	12	20	24	30

(iii)

Score	79 - 85	86 - 92	93 - 99	100 - 106	107 - 113	114 - 120	121 - 127	128 - 134
No. of students	22	30	25	36	7	20	24	46

(iv)

Score	79 - 85	86 - 92	93 - 99	100 - 106	107 - 113	114 - 120	121 - 127	128 - 134
No. of students	22	30	25	36	12	20	24	46

(v)

Score	79 - 85	86 - 92	93 - 99	100 - 106	107 - 113	114 - 120	121 - 127	128 - 134
No. of students	22	30	30	36	12	20	24	46

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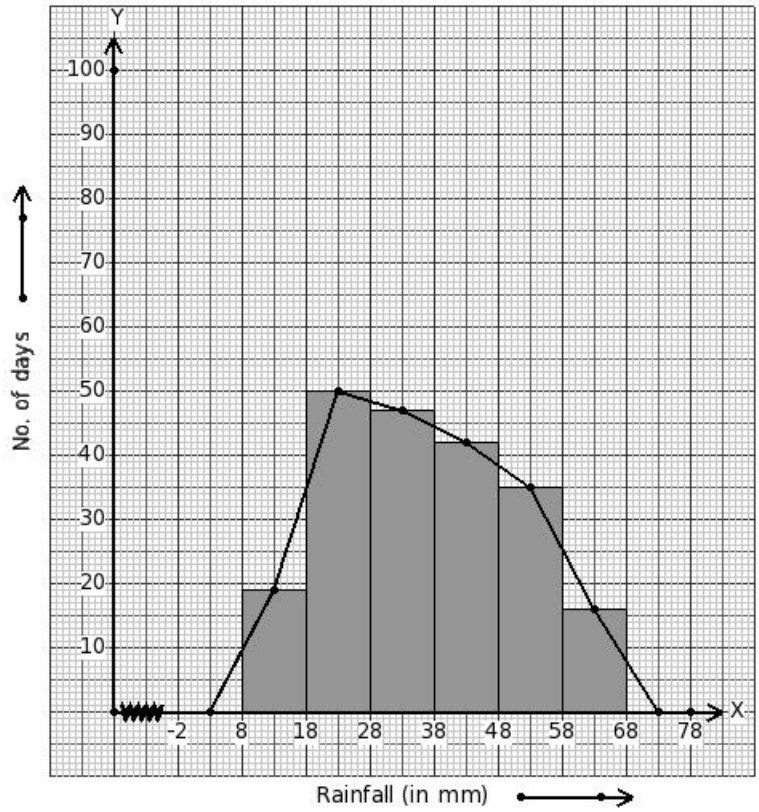
15. Rainfall of 209 days (in mm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	19	47	50	42	35	16

(ii)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	19	50	52	42	35	16

(iii)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	19	50	47	38	35	16

(iv)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	19	16	47	42	35	50

(v)

Rainfall (in mm)	8 - 18	18 - 28	28 - 38	38 - 48	48 - 58	58 - 68
No. of days	19	50	47	42	35	16

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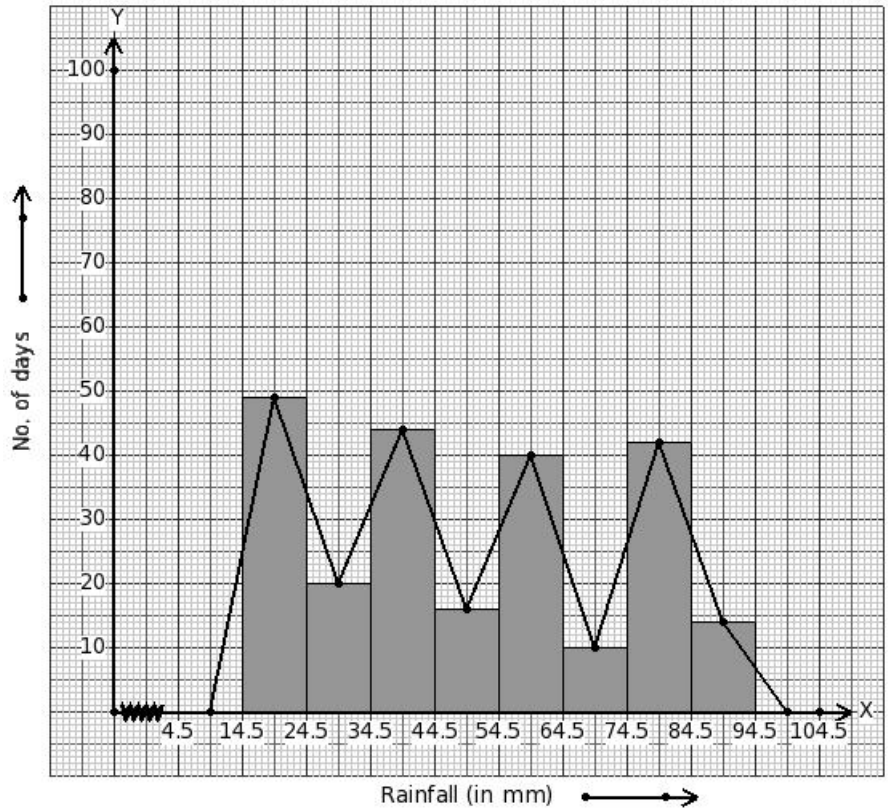
16. Rainfall of 235 days (in mm) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Rainfall (in mm)	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94
No. of days	49	20	16	44	40	10	42	14

(ii)

Rainfall (in mm)	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94
No. of days	49	20	44	16	43	10	42	14

(iii)

Rainfall (in mm)	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94
No. of days	49	20	46	16	40	10	42	14

(iv)

Rainfall (in mm)	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94
No. of days	49	14	44	16	40	10	42	20

(v)

Rainfall (in mm)	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94
No. of days	49	20	44	16	40	10	42	14

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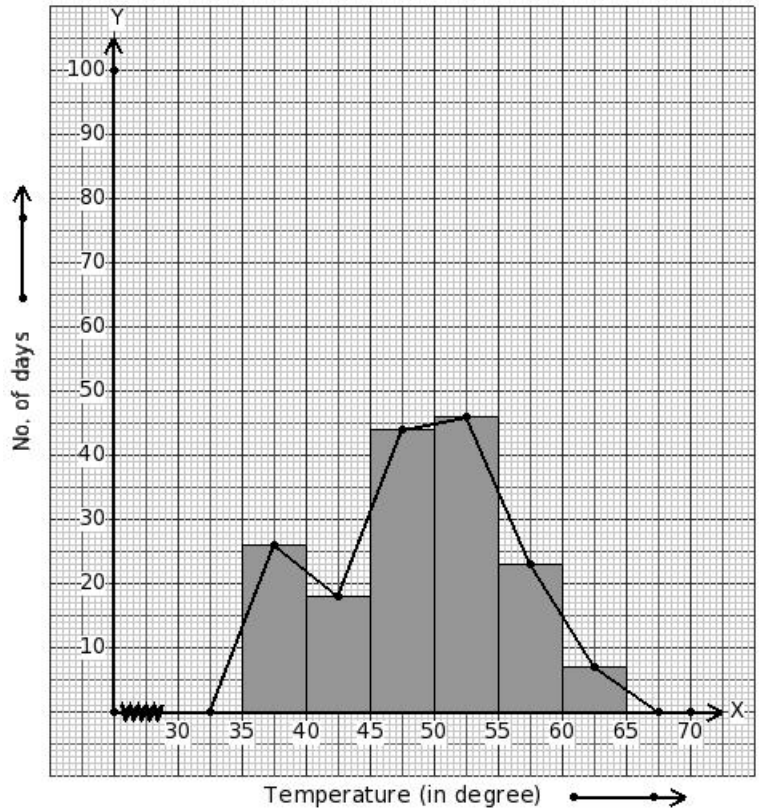
17. Temperatures of 164 days (in °C) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Temperature (in degree)	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65
No. of days	26	18	44	50	23	7

(ii)

Temperature (in degree)	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65
No. of days	26	18	40	46	23	7

(iii)

Temperature (in degree)	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65
No. of days	26	44	18	46	23	7

(iv)

Temperature (in degree)	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65
No. of days	26	18	44	46	23	7

(v)

Temperature (in degree)	35 - 40	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65
No. of days	26	7	44	46	23	18

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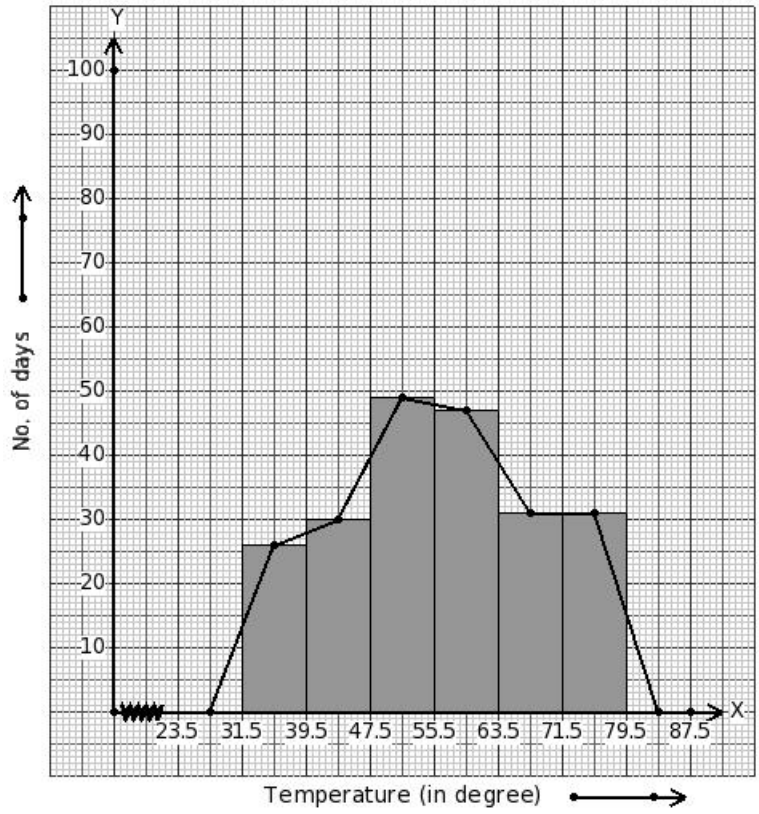
18. Temperatures of 214 days (in °C) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Temperature (in degree)	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79
No. of days	26	30	49	47	31	31

(ii)

Temperature (in degree)	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79
No. of days	26	30	49	43	31	31

(iii)

Temperature (in degree)	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79
No. of days	26	30	52	47	31	31

(iv)

Temperature (in degree)	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79
No. of days	26	31	49	47	31	30

(v)

Temperature (in degree)	32 - 39	40 - 47	48 - 55	56 - 63	64 - 71	72 - 79
No. of days	26	49	30	47	31	31

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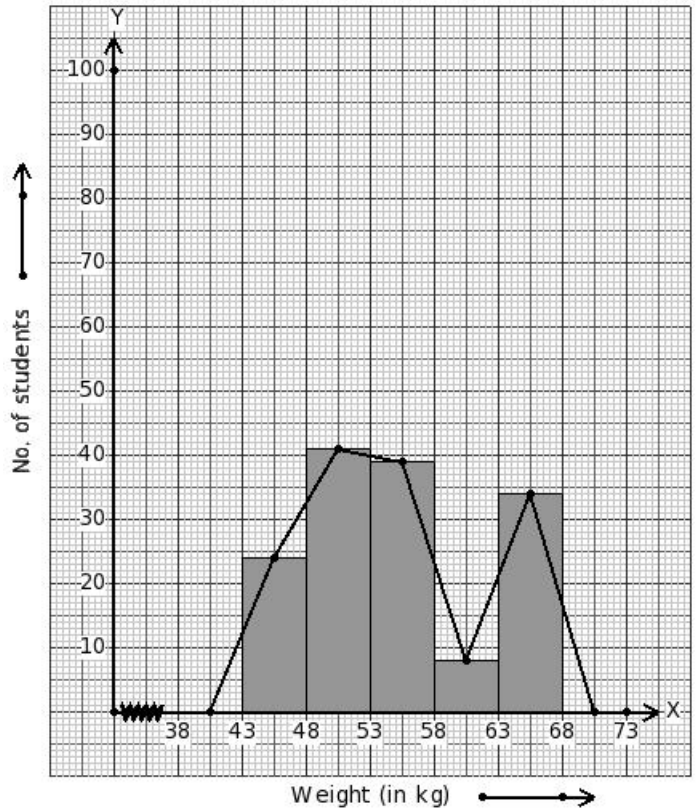
19. Weights of 146 students (in kg) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	24	41	39	8	34

(ii)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	24	41	37	8	34

(iii)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	24	39	39	8	34

(iv)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	24	34	39	8	41

(v)

Weight (in kg)	43 - 48	48 - 53	53 - 58	58 - 63	63 - 68
No. of students	24	39	41	8	34

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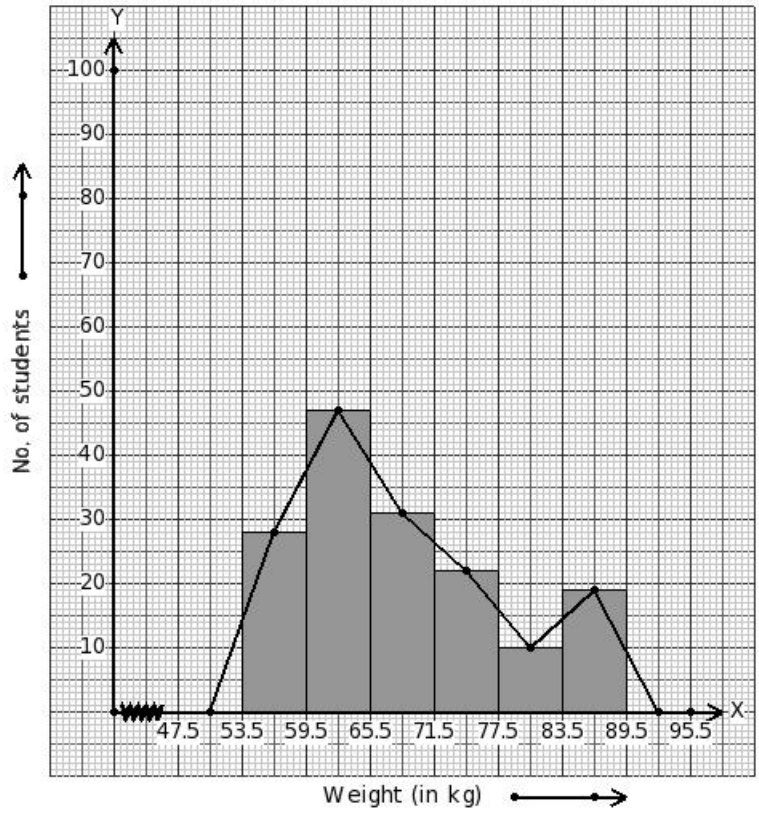
20. Weights of 157 students (in kg) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Weight (in kg)	54 - 59	60 - 65	66 - 71	72 - 77	78 - 83	84 - 89
No. of students	28	47	31	22	10	19

(ii)

Weight (in kg)	54 - 59	60 - 65	66 - 71	72 - 77	78 - 83	84 - 89
No. of students	28	31	47	22	10	19

(iii)

Weight (in kg)	54 - 59	60 - 65	66 - 71	72 - 77	78 - 83	84 - 89
No. of students	28	47	35	22	10	19

(iv)

Weight (in kg)	54 - 59	60 - 65	66 - 71	72 - 77	78 - 83	84 - 89
No. of students	28	47	31	27	10	19

(v)

Weight (in kg)	54 - 59	60 - 65	66 - 71	72 - 77	78 - 83	84 - 89
No. of students	28	19	31	22	10	47

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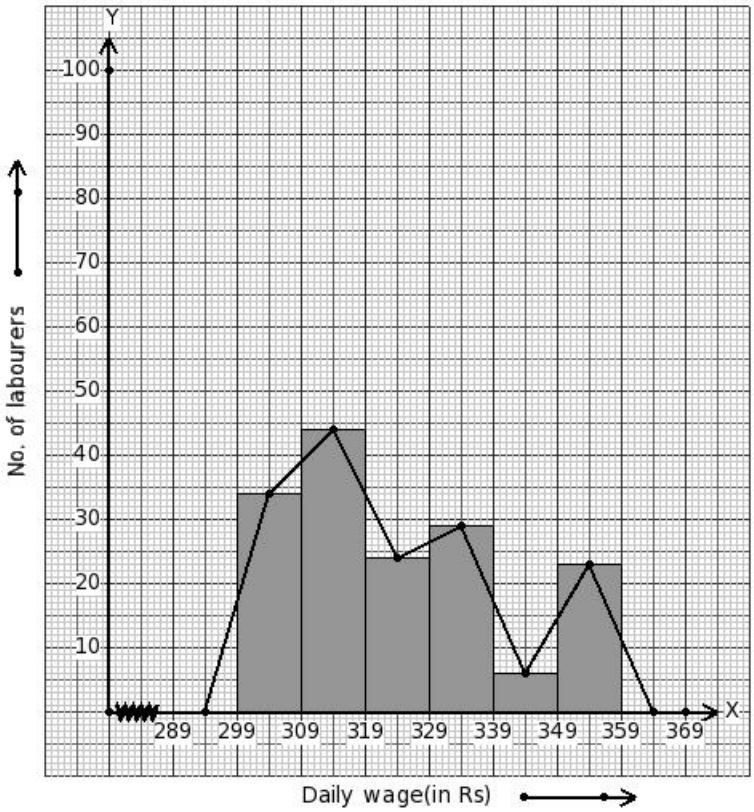
21. Daily wages of 160 labourers (in ₹) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Daily wage(in Rs)	299 - 309	309 - 319	319 - 329	329 - 339	339 - 349	349 - 359
No. of labourers	34	23	24	29	6	44

(ii)

Daily wage(in Rs)	299 - 309	309 - 319	319 - 329	329 - 339	339 - 349	349 - 359
No. of labourers	34	44	28	29	6	23

(iii)

Daily wage(in Rs)	299 - 309	309 - 319	319 - 329	329 - 339	339 - 349	349 - 359
No. of labourers	34	44	24	25	6	23

(iv)

Daily wage(in Rs)	299 - 309	309 - 319	319 - 329	329 - 339	339 - 349	349 - 359
No. of labourers	34	24	44	29	6	23

(v)

Daily wage(in Rs)	299 - 309	309 - 319	319 - 329	329 - 339	339 - 349	349 - 359
No. of labourers	34	44	24	29	6	23

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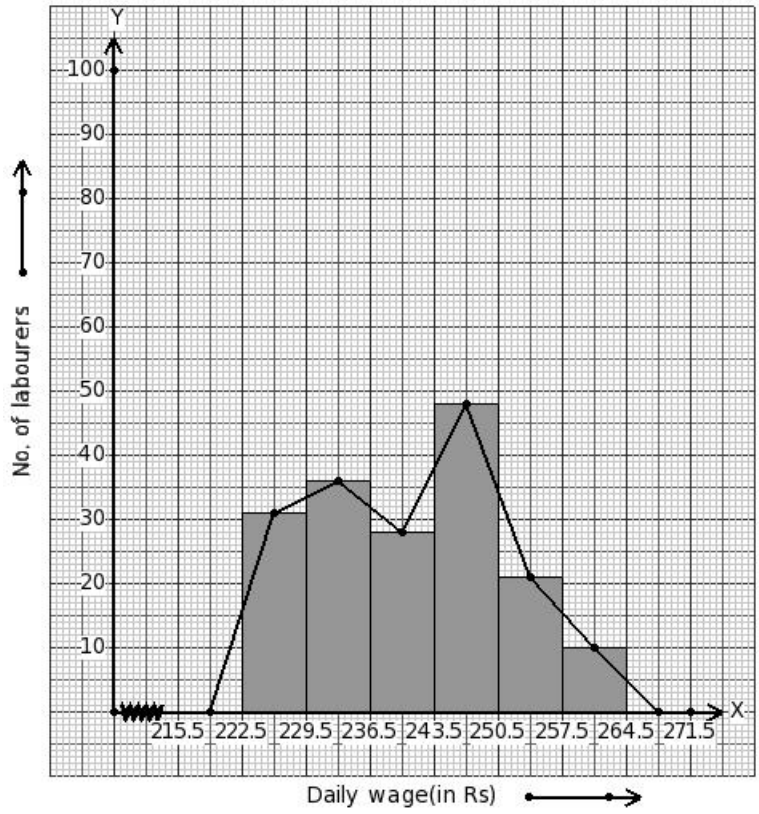
22. Daily wages of 174 labourers (in ₹) are given below. Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Daily wage(in Rs)	223 - 229	230 - 236	237 - 243	244 - 250	251 - 257	258 - 264
No. of labourers	31	36	28	46	21	10

(ii)

Daily wage(in Rs)	223 - 229	230 - 236	237 - 243	244 - 250	251 - 257	258 - 264
No. of labourers	31	28	36	48	21	10

(iii)

Daily wage(in Rs)	223 - 229	230 - 236	237 - 243	244 - 250	251 - 257	258 - 264
No. of labourers	31	10	28	48	21	36

(iv)

Daily wage(in Rs)	223 - 229	230 - 236	237 - 243	244 - 250	251 - 257	258 - 264
No. of labourers	31	36	24	48	21	10

(v)

Daily wage(in Rs)	223 - 229	230 - 236	237 - 243	244 - 250	251 - 257	258 - 264
No. of labourers	31	36	28	48	21	10

Assignment Key

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