

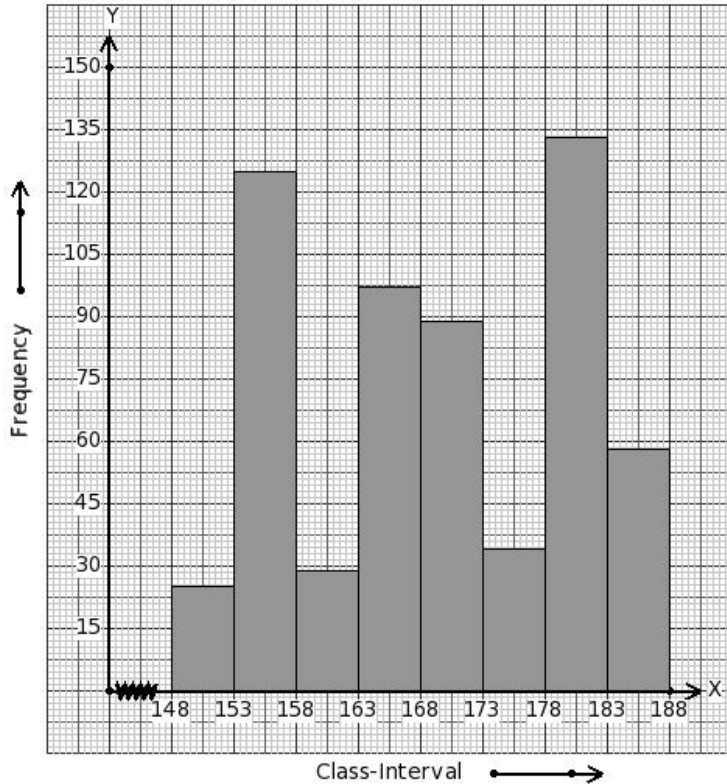
EduSahara™ Learning Center Assignment

Grade : Class IX, ICSE

Chapter : Graphical Representation of Statistical Data

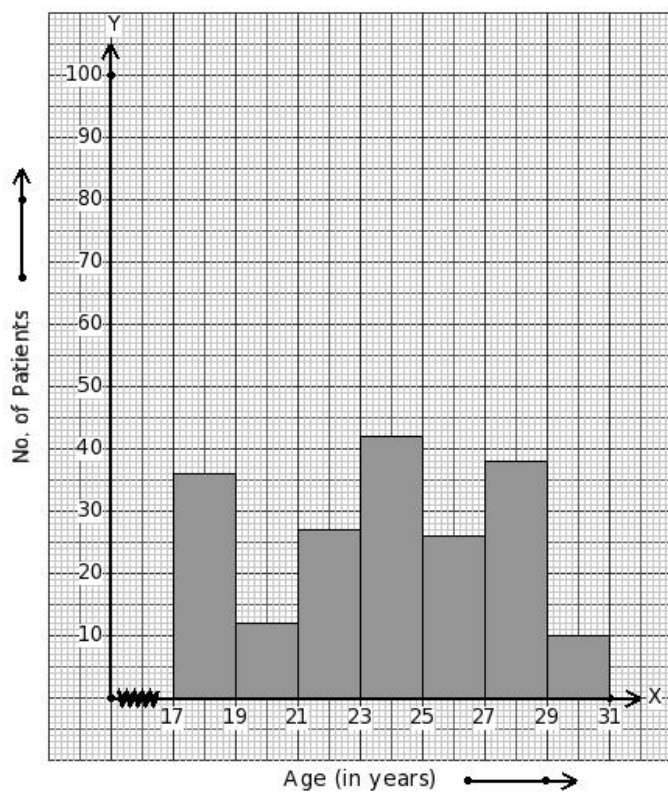
Name : Histogram

1. Identify the class interval table for the given histogram.



- (i)
- | Class-Interval | 148 - 153 | 153 - 158 | 158 - 163 | 163 - 168 | 168 - 173 | 173 - 178 | 178 - 183 | 183 - 188 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency | 25 | 125 | 97 | 29 | 89 | 34 | 133 | 58 |
- (ii)
- | Class-Interval | 148 - 153 | 153 - 158 | 158 - 163 | 163 - 168 | 168 - 173 | 173 - 178 | 178 - 183 | 183 - 188 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency | 25 | 125 | 29 | 97 | 89 | 34 | 133 | 58 |
- (iii)
- | Class-Interval | 148 - 153 | 153 - 158 | 158 - 163 | 163 - 168 | 168 - 173 | 173 - 178 | 178 - 183 | 183 - 188 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency | 25 | 125 | 32 | 97 | 89 | 34 | 133 | 58 |
- (iv)
- | Class-Interval | 148 - 153 | 153 - 158 | 158 - 163 | 163 - 168 | 168 - 173 | 173 - 178 | 178 - 183 | 183 - 188 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency | 25 | 58 | 29 | 97 | 89 | 34 | 133 | 125 |
- (v)
- | Class-Interval | 148 - 153 | 153 - 158 | 158 - 163 | 163 - 168 | 168 - 173 | 173 - 178 | 178 - 183 | 183 - 188 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency | 25 | 125 | 29 | 97 | 93 | 34 | 133 | 58 |

2. In a study of heart patients, the following observations are obtained. Identify the class interval table for the given histogram.



(i)

Age (in years)	17 - 19	19 - 21	21 - 23	23 - 25	25 - 27	27 - 29	29 - 31
No. of Patients	36	12	27	37	26	38	10

(ii)

Age (in years)	17 - 19	19 - 21	21 - 23	23 - 25	25 - 27	27 - 29	29 - 31
No. of Patients	36	12	27	42	26	38	10

(iii)

Age (in years)	17 - 19	19 - 21	21 - 23	23 - 25	25 - 27	27 - 29	29 - 31
No. of Patients	36	12	23	42	26	38	10

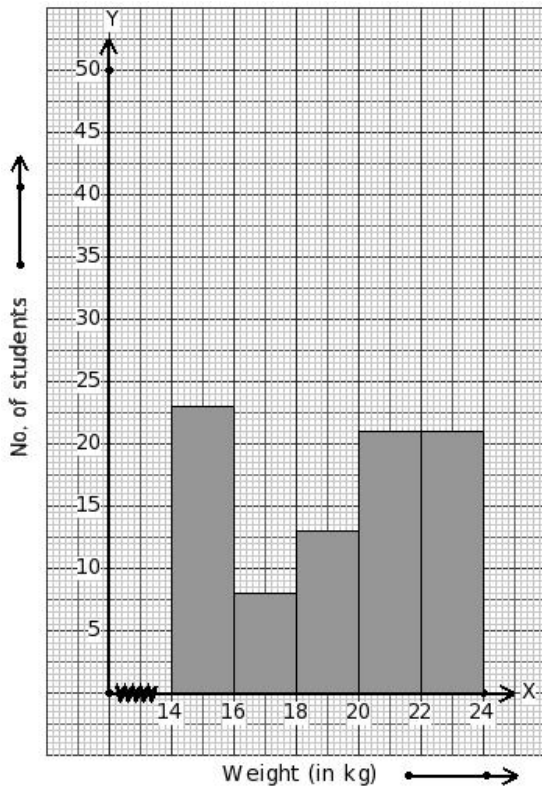
(iv)

Age (in years)	17 - 19	19 - 21	21 - 23	23 - 25	25 - 27	27 - 29	29 - 31
No. of Patients	36	27	12	42	26	38	10

(v)

Age (in years)	17 - 19	19 - 21	21 - 23	23 - 25	25 - 27	27 - 29	29 - 31
No. of Patients	36	10	27	42	26	38	12

3. Identify the class interval table for the given histogram.



(i)

Weight (in kg)	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24
No. of students	23	10	13	21	21

(ii)

Weight (in kg)	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24
No. of students	23	8	10	21	21

(iii)

Weight (in kg)	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24
No. of students	23	8	13	21	21

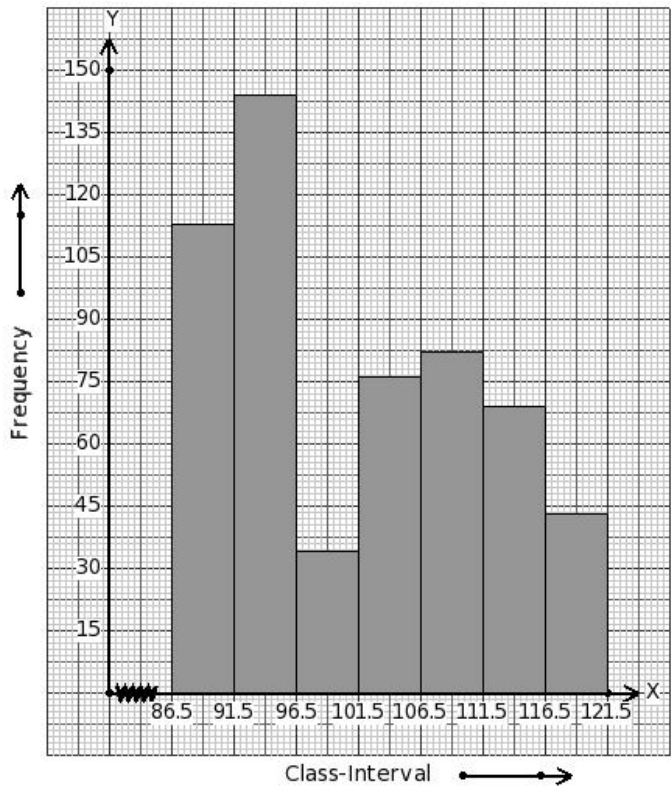
(iv)

Weight (in kg)	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24
No. of students	23	21	13	21	8

(v)

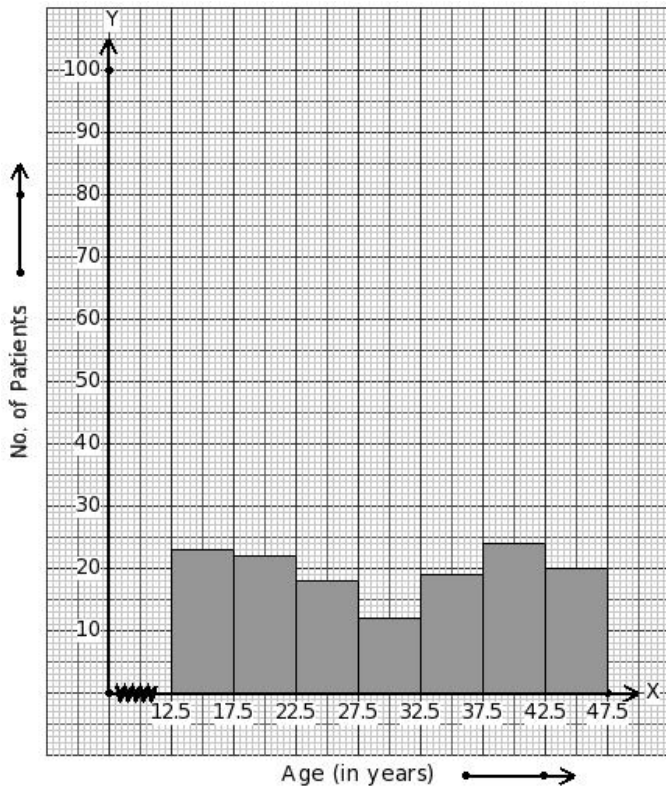
Weight (in kg)	14 - 16	16 - 18	18 - 20	20 - 22	22 - 24
No. of students	23	13	8	21	21

4. Identify the class interval table for the given histogram.



- (i)
- | Class-Interval | 87 - 91 | 92 - 96 | 97 - 101 | 102 - 106 | 107 - 111 | 112 - 116 | 117 - 121 |
|----------------|---------|---------|----------|-----------|-----------|-----------|-----------|
| Frequency | 113 | 34 | 144 | 76 | 82 | 69 | 43 |
- (ii)
- | Class-Interval | 87 - 91 | 92 - 96 | 97 - 101 | 102 - 106 | 107 - 111 | 112 - 116 | 117 - 121 |
|----------------|---------|---------|----------|-----------|-----------|-----------|-----------|
| Frequency | 113 | 144 | 34 | 76 | 82 | 69 | 43 |
- (iii)
- | Class-Interval | 87 - 91 | 92 - 96 | 97 - 101 | 102 - 106 | 107 - 111 | 112 - 116 | 117 - 121 |
|----------------|---------|---------|----------|-----------|-----------|-----------|-----------|
| Frequency | 113 | 144 | 36 | 76 | 82 | 69 | 43 |
- (iv)
- | Class-Interval | 87 - 91 | 92 - 96 | 97 - 101 | 102 - 106 | 107 - 111 | 112 - 116 | 117 - 121 |
|----------------|---------|---------|----------|-----------|-----------|-----------|-----------|
| Frequency | 113 | 43 | 34 | 76 | 82 | 69 | 144 |
- (v)
- | Class-Interval | 87 - 91 | 92 - 96 | 97 - 101 | 102 - 106 | 107 - 111 | 112 - 116 | 117 - 121 |
|----------------|---------|---------|----------|-----------|-----------|-----------|-----------|
| Frequency | 113 | 144 | 34 | 79 | 82 | 69 | 43 |

5. In a study of heart patients, the following observations are obtained. Identify the class interval table for the given histogram.



(i)

Age (in years)	13 - 17	18 - 22	23 - 27	28 - 32	33 - 37	38 - 42	43 - 47
No. of Patients	23	22	18	9	19	24	20

(ii)

Age (in years)	13 - 17	18 - 22	23 - 27	28 - 32	33 - 37	38 - 42	43 - 47
No. of Patients	23	22	18	12	19	24	20

(iii)

Age (in years)	13 - 17	18 - 22	23 - 27	28 - 32	33 - 37	38 - 42	43 - 47
No. of Patients	23	22	23	12	19	24	20

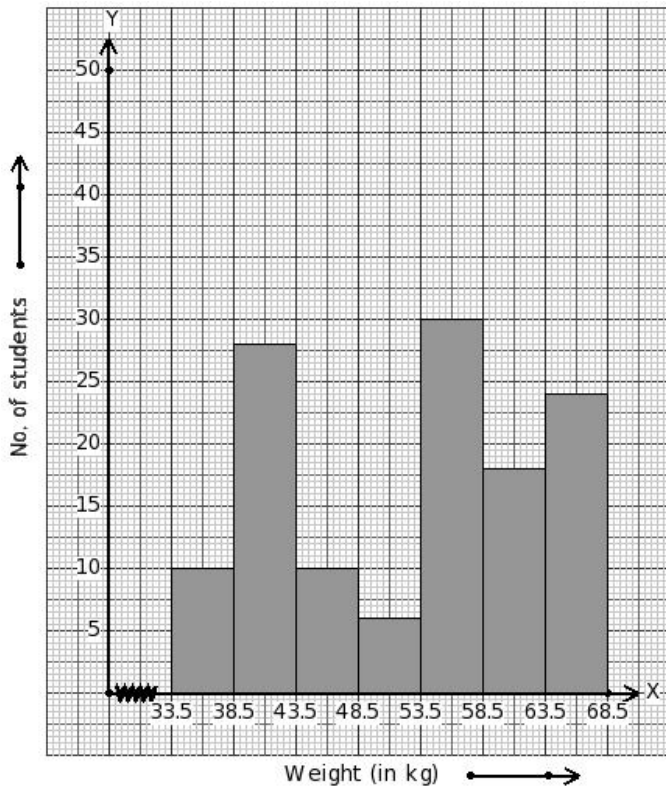
(iv)

Age (in years)	13 - 17	18 - 22	23 - 27	28 - 32	33 - 37	38 - 42	43 - 47
No. of Patients	23	20	18	12	19	24	22

(v)

Age (in years)	13 - 17	18 - 22	23 - 27	28 - 32	33 - 37	38 - 42	43 - 47
No. of Patients	23	18	22	12	19	24	20

6. Identify the class interval table for the given histogram.



(i)

Weight (in kg)	34 - 38	39 - 43	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68
No. of students	10	28	10	8	30	18	24

(ii)

Weight (in kg)	34 - 38	39 - 43	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68
No. of students	10	28	10	6	30	18	24

(iii)

Weight (in kg)	34 - 38	39 - 43	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68
No. of students	10	10	28	6	30	18	24

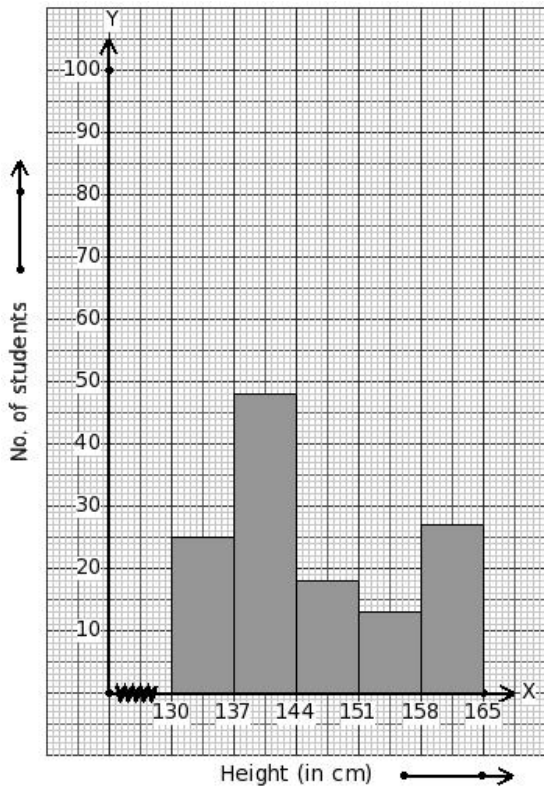
(iv)

Weight (in kg)	34 - 38	39 - 43	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68
No. of students	10	24	10	6	30	18	28

(v)

Weight (in kg)	34 - 38	39 - 43	44 - 48	49 - 53	54 - 58	59 - 63	64 - 68
No. of students	10	28	14	6	30	18	24

7. Heights of 131 students (in cm) are given below. Identify the class interval table for the given histogram.



(i)

Height (in cm)	130 - 137	137 - 144	144 - 151	151 - 158	158 - 165
No. of students	25	48	14	13	27

(ii)

Height (in cm)	130 - 137	137 - 144	144 - 151	151 - 158	158 - 165
No. of students	25	48	18	13	27

(iii)

Height (in cm)	130 - 137	137 - 144	144 - 151	151 - 158	158 - 165
No. of students	25	45	18	13	27

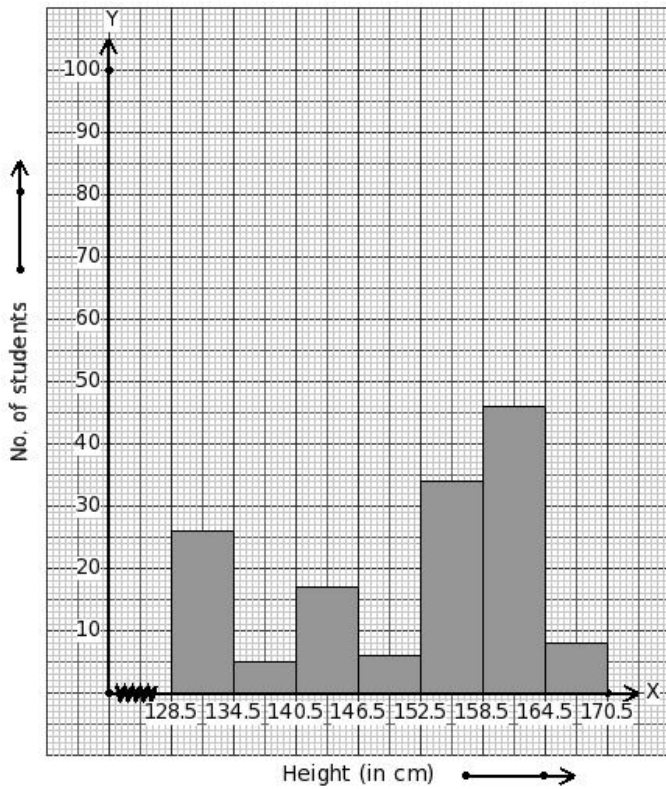
(iv)

Height (in cm)	130 - 137	137 - 144	144 - 151	151 - 158	158 - 165
No. of students	25	18	48	13	27

(v)

Height (in cm)	130 - 137	137 - 144	144 - 151	151 - 158	158 - 165
No. of students	25	27	18	13	48

8. Heights of 142 students (in cm) are given below. Identify the class interval table for the given histogram.



(i)

Height (in cm)	129 - 134	135 - 140	141 - 146	147 - 152	153 - 158	159 - 164	165 - 170
No. of students	26	8	17	6	34	46	5

(ii)

Height (in cm)	129 - 134	135 - 140	141 - 146	147 - 152	153 - 158	159 - 164	165 - 170
No. of students	26	5	19	6	34	46	8

(iii)

Height (in cm)	129 - 134	135 - 140	141 - 146	147 - 152	153 - 158	159 - 164	165 - 170
No. of students	26	5	17	6	34	46	8

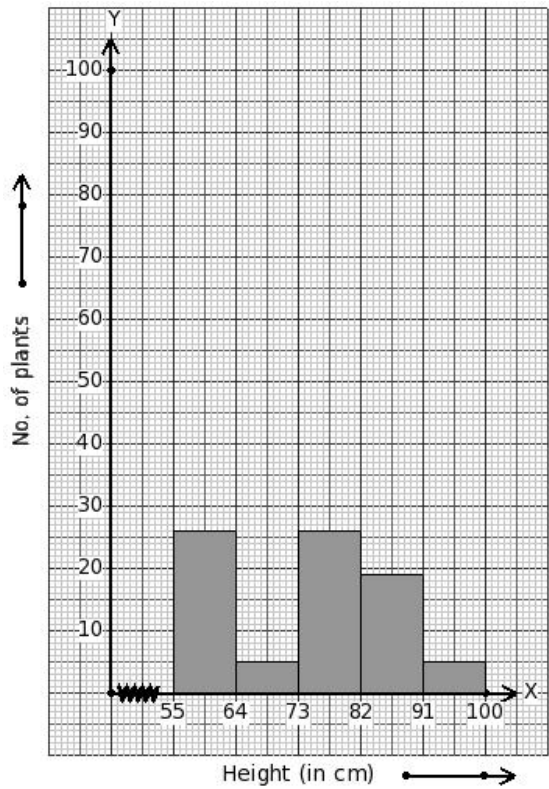
(iv)

Height (in cm)	129 - 134	135 - 140	141 - 146	147 - 152	153 - 158	159 - 164	165 - 170
No. of students	26	5	17	11	34	46	8

(v)

Height (in cm)	129 - 134	135 - 140	141 - 146	147 - 152	153 - 158	159 - 164	165 - 170
No. of students	26	17	5	6	34	46	8

9. Heights of 81 plants (in cm) are given below. Identify the class interval table for the given histogram.



(i)

Height (in cm)	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100
No. of plants	26	5	26	19	5

(ii)

Height (in cm)	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100
No. of plants	26	5	28	19	5

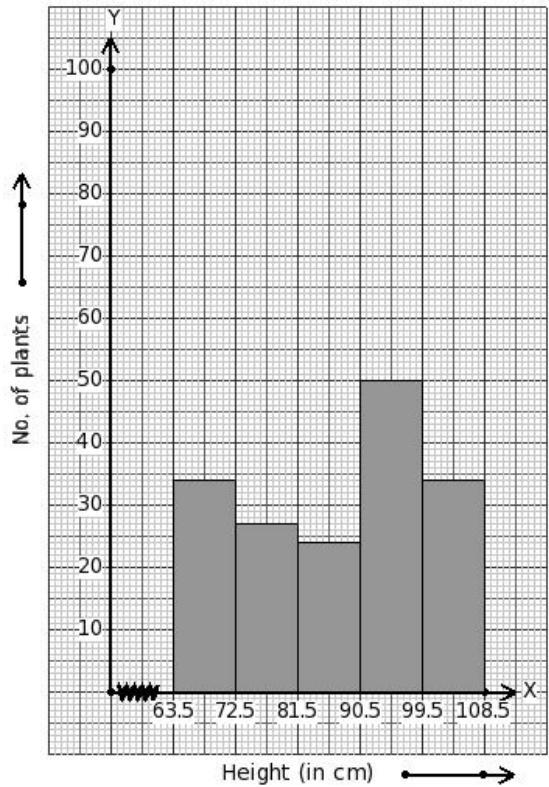
(iii)

Height (in cm)	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100
No. of plants	26	26	5	19	5

(iv)

Height (in cm)	55 - 64	64 - 73	73 - 82	82 - 91	91 - 100
No. of plants	26	10	26	19	5

10. Heights of 169 plants (in cm) are given below. Identify the class interval table for the given histogram.



(i)

Height (in cm)	64 - 72	73 - 81	82 - 90	91 - 99	100 - 108

No. of plants	34	27	22	50	34
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(ii)

Height (in cm)	64 - 72	73 - 81	82 - 90	91 - 99	100 - 108
No. of plants	34	24	27	50	34

(iii)

Height (in cm)	64 - 72	73 - 81	82 - 90	91 - 99	100 - 108
No. of plants	34	34	24	50	27

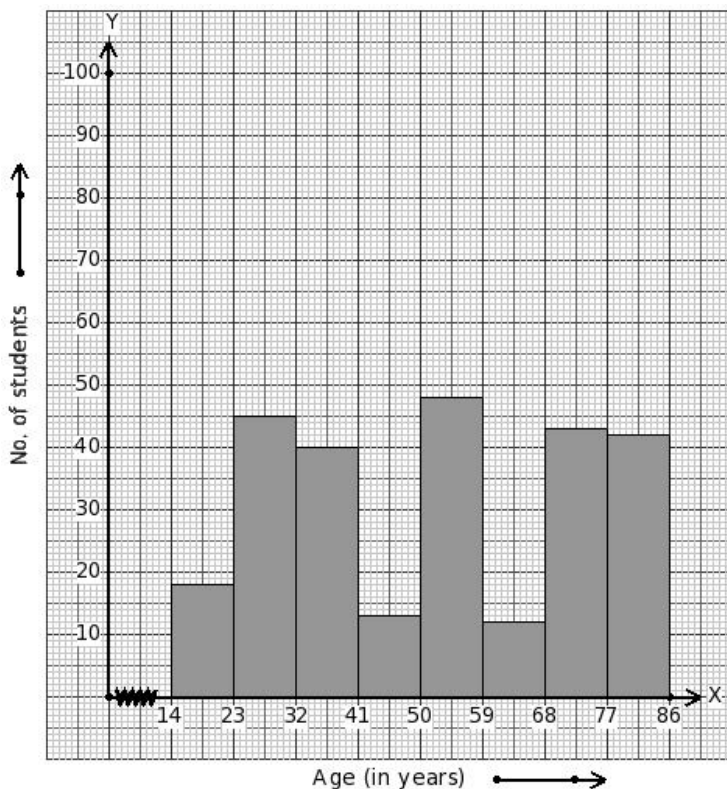
(iv)

Height (in cm)	64 - 72	73 - 81	82 - 90	91 - 99	100 - 108
No. of plants	34	27	24	50	34

(v)

Height (in cm)	64 - 72	73 - 81	82 - 90	91 - 99	100 - 108
No. of plants	34	32	24	50	34

11. Ages of 261 students (in years) are given below. Identify the class interval table for the given histogram.



(i)

Age (in years)	14 - 23	23 - 32	32 - 41	41 - 50	50 - 59	59 - 68	68 - 77	77 - 86
No. of students	18	45	13	40	48	12	43	42

(ii)

Age (in years)	14 - 23	23 - 32	32 - 41	41 - 50	50 - 59	59 - 68	68 - 77	77 - 86
No. of students	18	45	40	13	43	12	43	42

(iii)

Age (in years)	14 - 23	23 - 32	32 - 41	41 - 50	50 - 59	59 - 68	68 - 77	77 - 86
No. of students	18	45	40	13	48	12	43	42

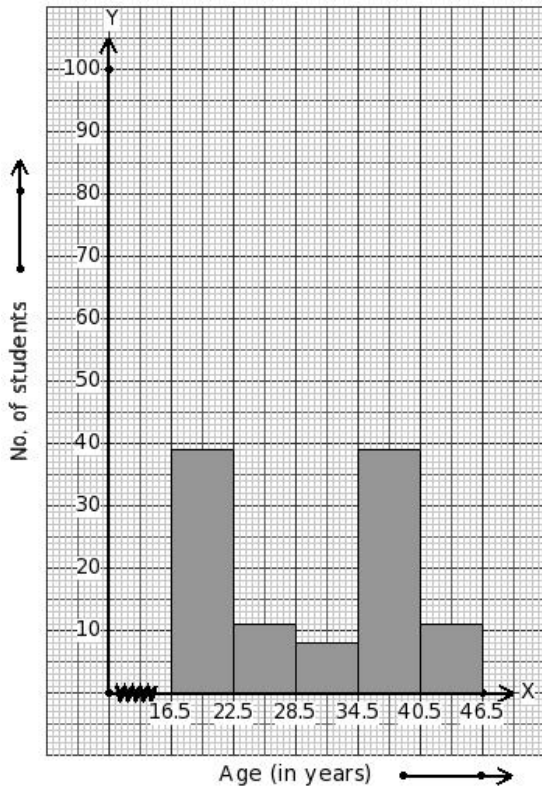
(iv)

Age (in years)	14 - 23	23 - 32	32 - 41	41 - 50	50 - 59	59 - 68	68 - 77	77 - 86
No. of students	18	45	35	13	48	12	43	42

(v)

Age (in years)	14 - 23	23 - 32	32 - 41	41 - 50	50 - 59	59 - 68	68 - 77	77 - 86
No. of students	18	42	40	13	48	12	43	45

12. Ages of 108 students (in years) are given below. Identify the class interval table for the given histogram.



(i)

Age (in years)	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
No. of students	39	11	4	39	11

(ii)

Age (in years)	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
No. of students	39	11	8	39	11

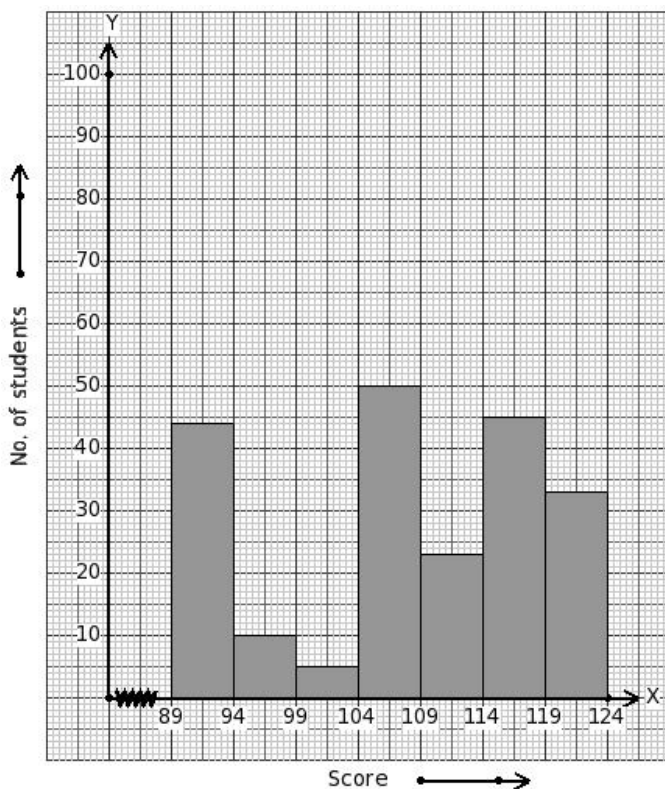
(iii)

Age (in years)	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
No. of students	39	8	11	39	11

(iv)

Age (in years)	17 - 22	23 - 28	29 - 34	35 - 40	41 - 46
No. of students	39	16	8	39	11

13. Scores of 210 students are given below. Identify the class interval table for the given histogram.



(i)

Score	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114	114 - 119	119 - 124
No. of students	44	33	5	50	23	45	10

(ii)

Score	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114	114 - 119	119 - 124
No. of students	44	10	5	55	23	45	33

(iii)

Score	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114	114 - 119	119 - 124
No. of students	44	10	10	50	23	45	33

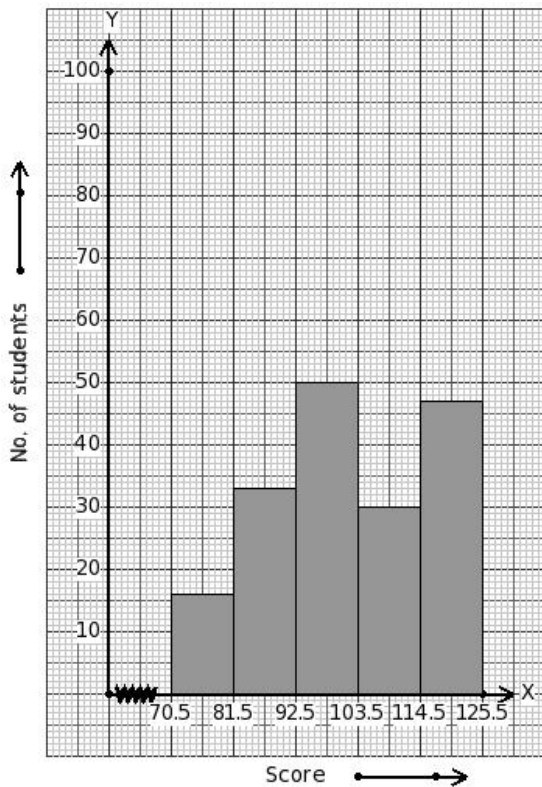
(iv)

Score	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114	114 - 119	119 - 124
No. of students	44	10	5	50	23	45	33

(v)

Score	89 - 94	94 - 99	99 - 104	104 - 109	109 - 114	114 - 119	119 - 124
No. of students	44	5	10	50	23	45	33

14. Scores of 176 students are given below. Identify the class interval table for the given histogram.



(i)

Score	71 - 81	82 - 92	93 - 103	104 - 114	115 - 125
No. of students	16	38	50	30	47

(ii)

Score	71 - 81	82 - 92	93 - 103	104 - 114	115 - 125
No. of students	16	50	33	30	47

(iii)

Score	71 - 81	82 - 92	93 - 103	104 - 114	115 - 125
No. of students	16	47	50	30	33

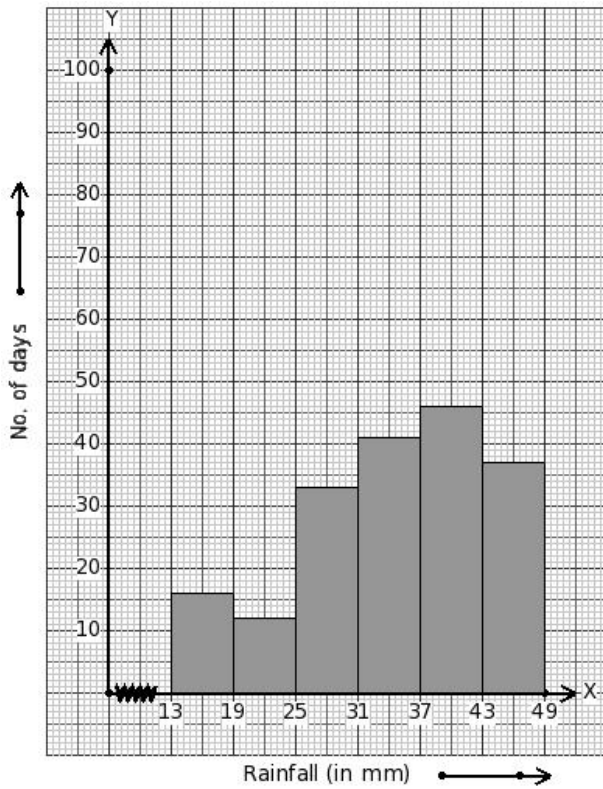
(iv)

Score	71 - 81	82 - 92	93 - 103	104 - 114	115 - 125
No. of students	16	33	48	30	47

(v)

Score	71 - 81	82 - 92	93 - 103	104 - 114	115 - 125
No. of students	16	33	50	30	47

15. Rainfall of 185 days (in mm) are given below. Identify the class interval table for the given histogram.



(i)

Rainfall (in mm)	13 - 19	19 - 25	25 - 31	31 - 37	37 - 43	43 - 49
No. of days	16	12	33	43	46	37

(ii)

Rainfall (in mm)	13 - 19	19 - 25	25 - 31	31 - 37	37 - 43	43 - 49
No. of days	16	12	38	41	46	37

(iii)

Rainfall (in mm)	13 - 19	19 - 25	25 - 31	31 - 37	37 - 43	43 - 49
No. of days	16	37	33	41	46	12

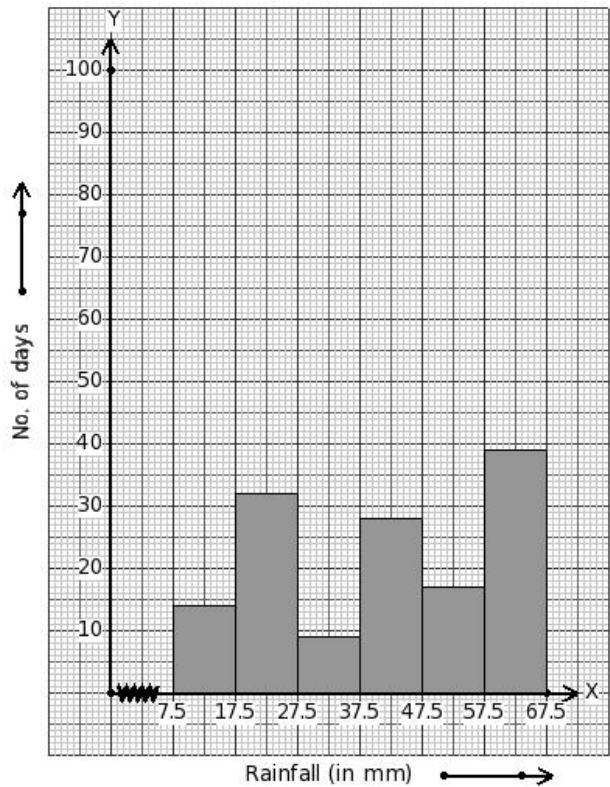
(iv)

Rainfall (in mm)	13 - 19	19 - 25	25 - 31	31 - 37	37 - 43	43 - 49
No. of days	16	12	33	41	46	37

(v)

Rainfall (in mm)	13 - 19	19 - 25	25 - 31	31 - 37	37 - 43	43 - 49
No. of days	16	33	12	41	46	37

16. Rainfall of 139 days (in mm) are given below. Identify the class interval table for the given histogram.



- (i)

Rainfall (in mm)	8 - 17	18 - 27	28 - 37	38 - 47	48 - 57	58 - 67
No. of days	14	9	32	28	17	39
- (ii)

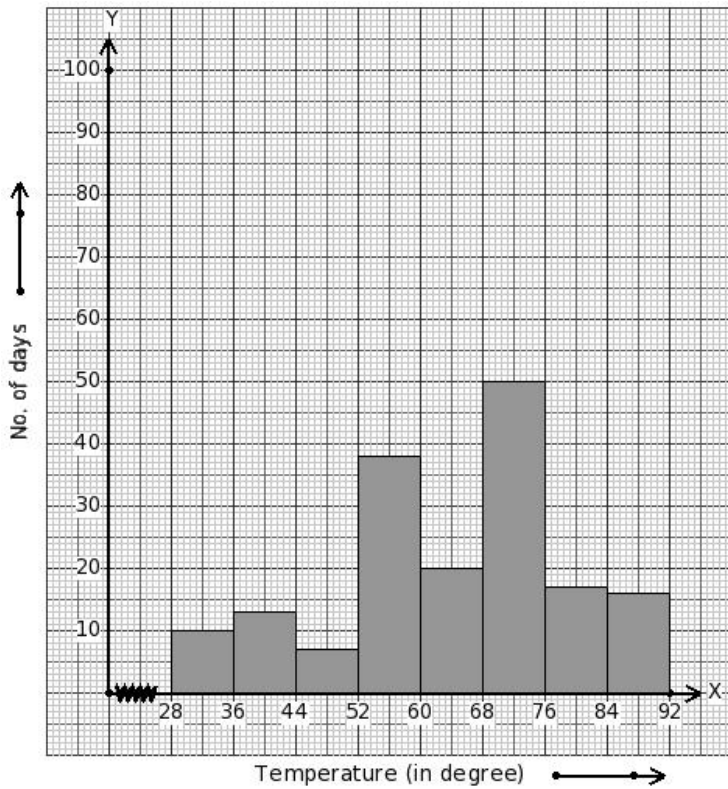
Rainfall (in mm)	8 - 17	18 - 27	28 - 37	38 - 47	48 - 57	58 - 67
No. of days	14	32	9	28	17	39
- (iii)

Rainfall (in mm)	8 - 17	18 - 27	28 - 37	38 - 47	48 - 57	58 - 67
No. of days	14	32	9	32	17	39
- (iv)

Rainfall (in mm)	8 - 17	18 - 27	28 - 37	38 - 47	48 - 57	58 - 67
No. of days	14	32	11	28	17	39
- (v)

Rainfall (in mm)	8 - 17	18 - 27	28 - 37	38 - 47	48 - 57	58 - 67
No. of days	14	39	9	28	17	32

17. Temperatures of 171 days (in °C) are given below. Identify the class interval table for the given histogram.



(i)

Temperature (in degree)	28 - 36	36 - 44	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84	84 - 92
No. of days	10	16	7	38	20	50	17	13

(ii)

Temperature (in degree)	28 - 36	36 - 44	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84	84 - 92
No. of days	10	13	38	7	20	50	17	16

(iii)

Temperature (in degree)	28 - 36	36 - 44	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84	84 - 92
No. of days	10	13	7	38	20	50	17	16

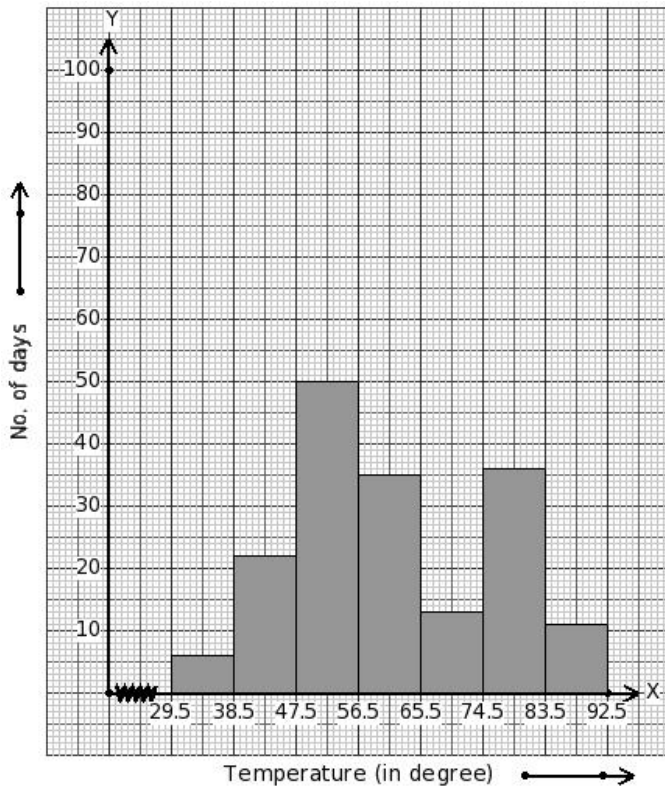
(iv)

Temperature (in degree)	28 - 36	36 - 44	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84	84 - 92
No. of days	10	13	7	38	15	50	17	16

(v)

Temperature (in degree)	28 - 36	36 - 44	44 - 52	52 - 60	60 - 68	68 - 76	76 - 84	84 - 92
No. of days	10	13	2	38	20	50	17	16

18. Temperatures of 173 days (in °C) are given below. Identify the class interval table for the given histogram.



(i)

Temperature (in degree)	30 - 38	39 - 47	48 - 56	57 - 65	66 - 74	75 - 83	84 - 92
No. of days	6	11	50	35	13	36	22

(ii)

Temperature (in degree)	30 - 38	39 - 47	48 - 56	57 - 65	66 - 74	75 - 83	84 - 92
No. of days	6	22	50	35	13	36	11

(iii)

Temperature (in degree)	30 - 38	39 - 47	48 - 56	57 - 65	66 - 74	75 - 83	84 - 92
No. of days	6	22	48	35	13	36	11

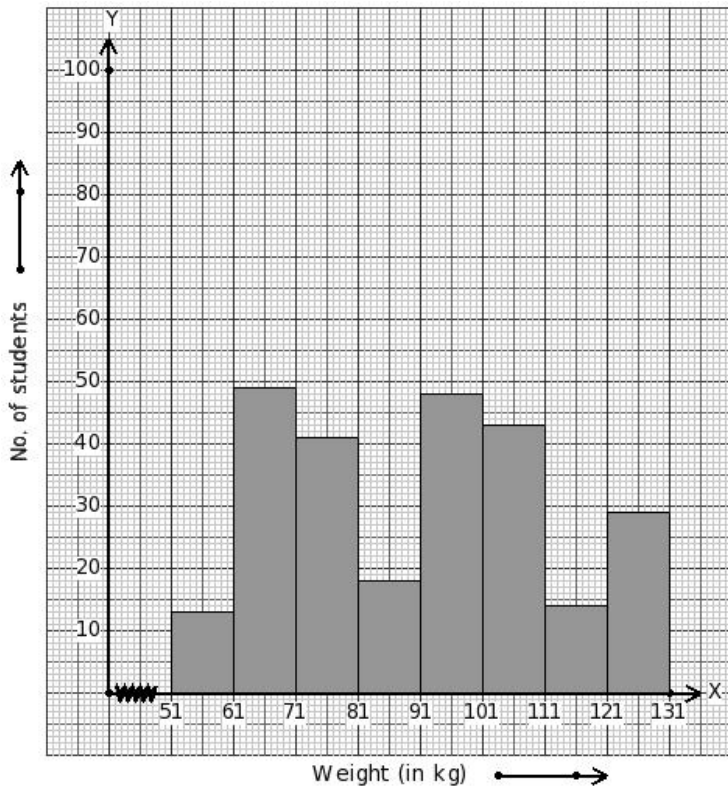
(iv)

Temperature (in degree)	30 - 38	39 - 47	48 - 56	57 - 65	66 - 74	75 - 83	84 - 92
No. of days	6	50	22	35	13	36	11

(v)

Temperature (in degree)	30 - 38	39 - 47	48 - 56	57 - 65	66 - 74	75 - 83	84 - 92
No. of days	6	22	50	31	13	36	11

19. Weights of 255 students (in kg) are given below. Identify the class interval table for the given histogram.



(i)

Weight (in kg)	51 - 61	61 - 71	71 - 81	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131
No. of students	13	49	41	18	51	43	14	29

(ii)

Weight (in kg)	51 - 61	61 - 71	71 - 81	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131
No. of students	13	49	39	18	48	43	14	29

(iii)

Weight (in kg)	51 - 61	61 - 71	71 - 81	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131
No. of students	13	29	41	18	48	43	14	49

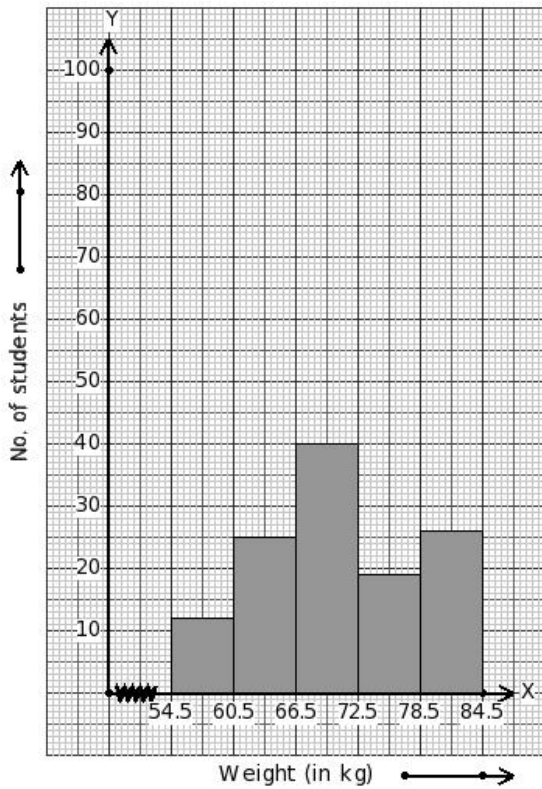
(iv)

Weight (in kg)	51 - 61	61 - 71	71 - 81	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131
No. of students	13	49	41	18	48	43	14	29

(v)

Weight (in kg)	51 - 61	61 - 71	71 - 81	81 - 91	91 - 101	101 - 111	111 - 121	121 - 131
No. of students	13	49	18	41	48	43	14	29

20. Weights of 122 students (in kg) are given below. Identify the class interval table for the given histogram.



(i)

Weight (in kg)	55 - 60	61 - 66	67 - 72	73 - 78	79 - 84
No. of students	12	22	40	19	26

(ii)

Weight (in kg)	55 - 60	61 - 66	67 - 72	73 - 78	79 - 84
No. of students	12	40	25	19	26

(iii)

Weight (in kg)	55 - 60	61 - 66	67 - 72	73 - 78	79 - 84
No. of students	12	26	40	19	25

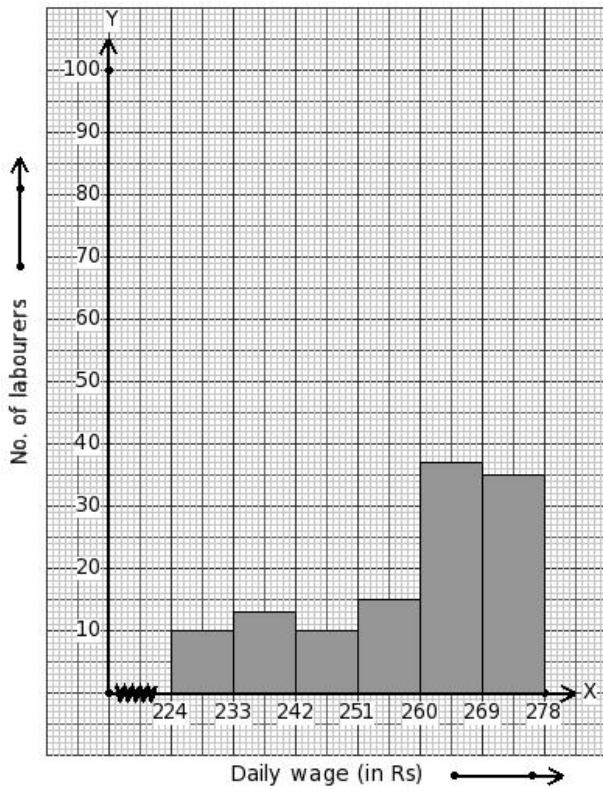
(iv)

Weight (in kg)	55 - 60	61 - 66	67 - 72	73 - 78	79 - 84
No. of students	12	25	45	19	26

(v)

Weight (in kg)	55 - 60	61 - 66	67 - 72	73 - 78	79 - 84
No. of students	12	25	40	19	26

21. Daily wages of 120 labourers (in ₹) are given below. Identify the class interval table for the given histogram.



(i)

Daily wage (in Rs)	224 - 233	233 - 242	242 - 251	251 - 260	260 - 269	269 - 278
No. of labourers	10	13	7	15	37	35

(ii)

Daily wage (in Rs)	224 - 233	233 - 242	242 - 251	251 - 260	260 - 269	269 - 278
No. of labourers	10	13	10	12	37	35

(iii)

Daily wage (in Rs)	224 - 233	233 - 242	242 - 251	251 - 260	260 - 269	269 - 278
No. of labourers	10	35	10	15	37	13

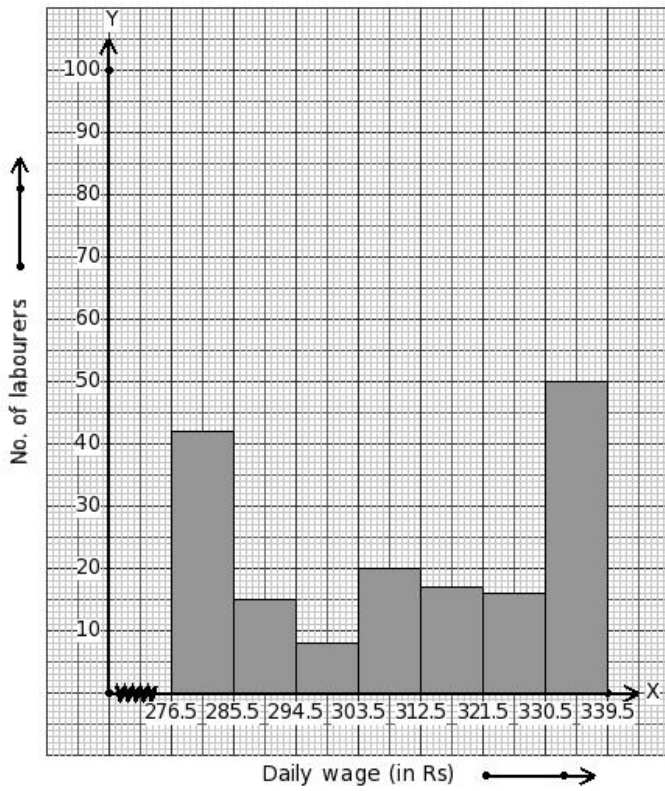
(iv)

Daily wage (in Rs)	224 - 233	233 - 242	242 - 251	251 - 260	260 - 269	269 - 278
No. of labourers	10	13	10	15	37	35

(v)

Daily wage (in Rs)	224 - 233	233 - 242	242 - 251	251 - 260	260 - 269	269 - 278
No. of labourers	10	10	13	15	37	35

22. Daily wages of 168 labourers (in ₹) are given below. Identify the class interval table for the given histogram.



(i)

Daily wage (in Rs)	277 - 285	286 - 294	295 - 303	304 - 312	313 - 321	322 - 330	331 - 339
No. of labourers	42	50	8	20	17	16	15

(ii)

Daily wage (in Rs)	277 - 285	286 - 294	295 - 303	304 - 312	313 - 321	322 - 330	331 - 339
No. of labourers	42	15	8	17	17	16	50

(iii)

Daily wage (in Rs)	277 - 285	286 - 294	295 - 303	304 - 312	313 - 321	322 - 330	331 - 339
No. of labourers	42	15	12	20	17	16	50

(iv)

Daily wage (in Rs)	277 - 285	286 - 294	295 - 303	304 - 312	313 - 321	322 - 330	331 - 339
No. of labourers	42	8	15	20	17	16	50

(v)

Daily wage (in Rs)	277 - 285	286 - 294	295 - 303	304 - 312	313 - 321	322 - 330	331 - 339
No. of labourers	42	15	8	20	17	16	50

Assignment Key

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