EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Frequency Distribution Tables and Graphs

Grade : SSC Grade VIII

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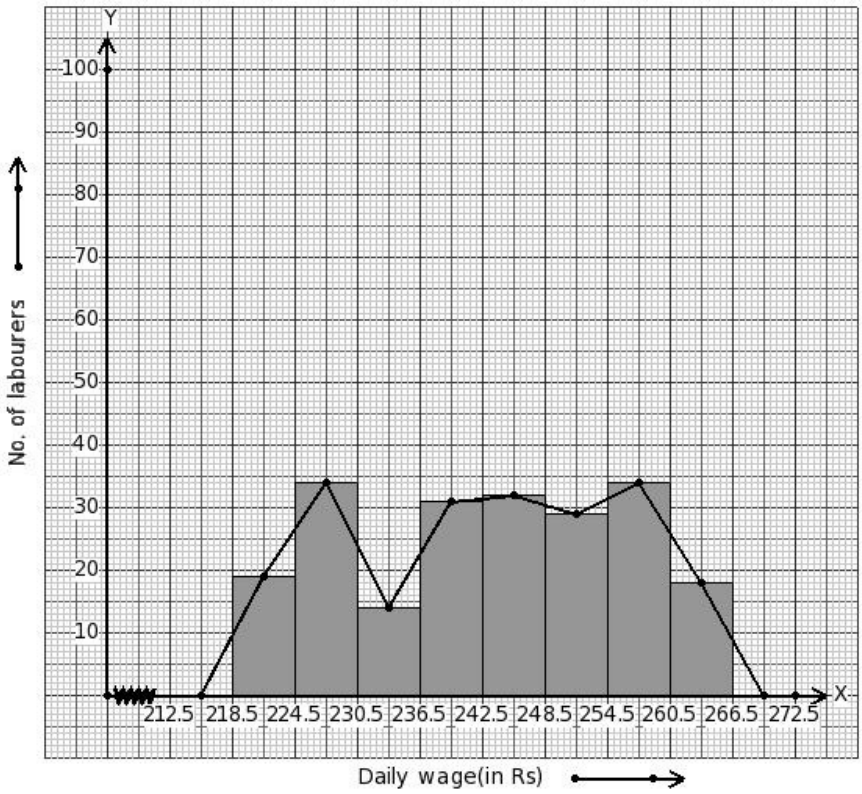
1. Daily wages of 211 labourers (in ₹) are given below.
Identify the class interval table for the given histogram and frequency polygon on the same graph.



(i)

Daily wage(in Rs)	219 - 224	225 - 230	231 - 236	237 - 242	243 - 248	249 - 254	255 - 260	261 - 266
No. of labourers	19	34	9	31	32	29	34	18

(ii)

Daily wage(in Rs)	219 - 224	225 - 230	231 - 236	237 - 242	243 - 248	249 - 254	255 - 260	261 - 266
No. of labourers	19	34	14	31	32	29	34	18

(iii)

Daily wage(in Rs)	219 - 224	225 - 230	231 - 236	237 - 242	243 - 248	249 - 254	255 - 260	261 - 266
No. of labourers	19	34	31	14	32	29	34	18

(iv)

Daily wage(in Rs)	219 - 224	225 - 230	231 - 236	237 - 242	243 - 248	249 - 254	255 - 260	261 - 266
No. of labourers	19	34	14	31	28	29	34	18

(v)

Daily wage(in Rs)	219 - 224	225 - 230	231 - 236	237 - 242	243 - 248	249 - 254	255 - 260	261 - 266
No. of labourers	19	18	14	31	32	29	34	34

The marks obtained by 16 students in an examination are given below.

2. Represent the data in the form of a frequency distribution table in exclusive form taking class size 6.

71 64 51 58 43 71 76 58 72 65 80 72 71 61 61 71

(i)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	1	1	2	1	6	1	1

(ii)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	1	1	2	4	6	1	1

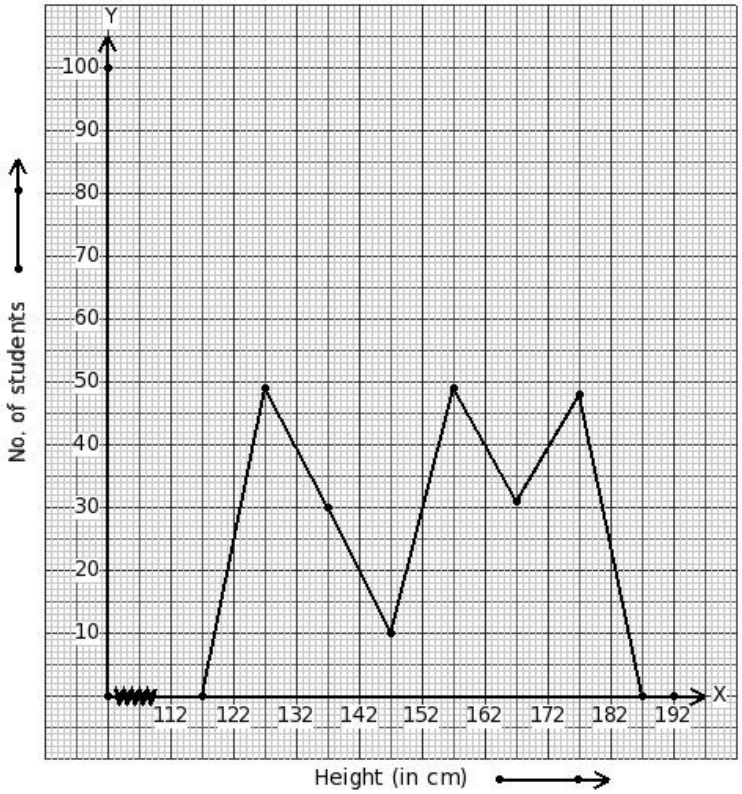
(iii)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	1	2	1	4	6	1	1

(iv)

Marks	43 - 49	49 - 55	55 - 61	61 - 67	67 - 73	73 - 79	79 - 85
No. of Students	1	1	6	4	6	1	1

3. Heights of 217 students (in cm) are given below. Identify the class interval table for the given frequency polygon.



(i)

Height (in cm)	122 - 132	132 - 142	142 - 152	152 - 162	162 - 172	172 - 182
No. of students	49	30	10	47	31	48

(ii)

Height (in cm)	122 - 132	132 - 142	142 - 152	152 - 162	162 - 172	172 - 182
No. of students	49	30	13	49	31	48

(iii)

Height (in cm)	122 - 132	132 - 142	142 - 152	152 - 162	162 - 172	172 - 182
No. of students	49	30	10	49	31	48

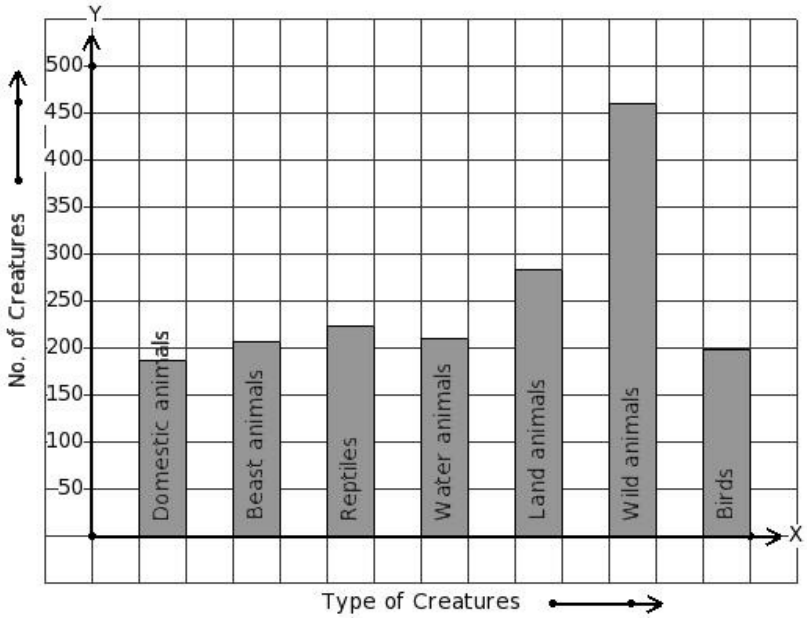
(iv)

Height (in cm)	122 - 132	132 - 142	142 - 152	152 - 162	162 - 172	172 - 182
No. of students	49	48	10	49	31	30

(v)

Height (in cm)	122 - 132	132 - 142	142 - 152	152 - 162	162 - 172	172 - 182
No. of students	49	10	30	49	31	48

4. There are certain creatures in a zoo. Find the type of creature that has maximum presense in the zoo.



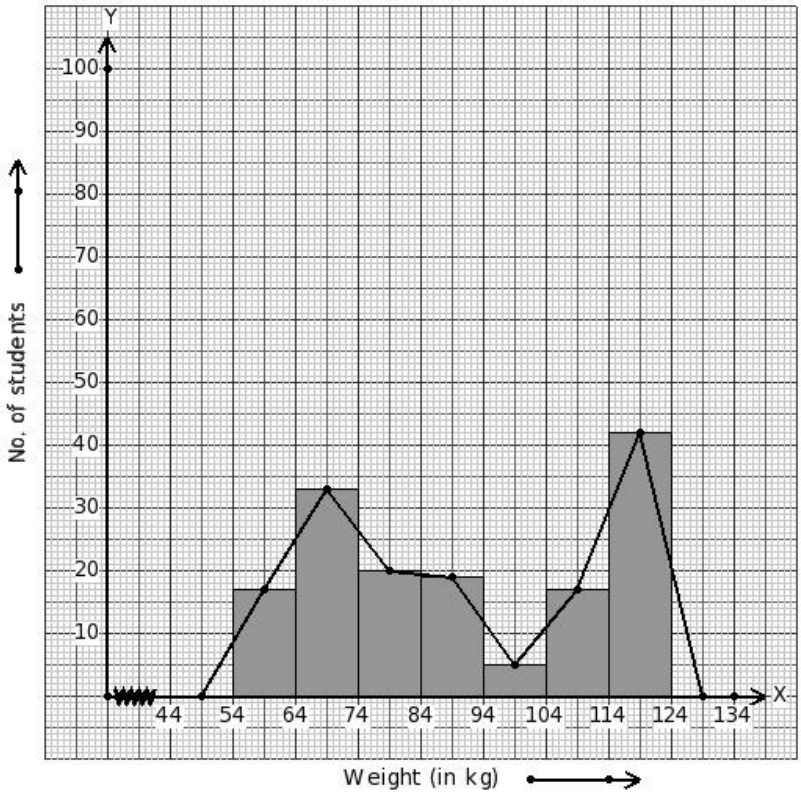
(i) Water animals (ii) Birds (iii) Wild animals (iv) Reptiles (v) Beast animals

5. Given the mean of 12 samples as $6\frac{1}{6}$,

what is the new mean if two samples 10 and 9 are removed ?

(i) $\frac{13}{2}$ (ii) 6 (iii) $\frac{21}{4}$ (iv) $\frac{11}{2}$ (v) $\frac{9}{2}$

6. Weights of 153 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 - 64	64 - 74	74 - 84	84 - 94	94 - 104	104 - 114	114 - 124
No. of students	17	33	20	19	5	17	42

(ii)

Weight (in kg)	54 - 64	64 - 74	74 - 84	84 - 94	94 - 104	104 - 114	114 - 124
No. of students	17	42	20	19	5	17	33

(iii)

Weight (in kg)	54 - 64	64 - 74	74 - 84	84 - 94	94 - 104	104 - 114	114 - 124
No. of students	17	33	23	19	5	17	42

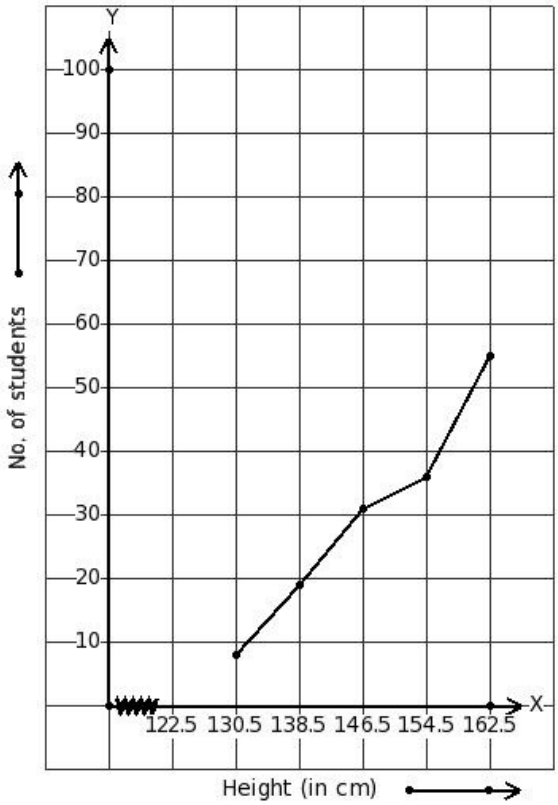
(iv)

Weight (in kg)	54 - 64	64 - 74	74 - 84	84 - 94	94 - 104	104 - 114	114 - 124
No. of students	17	33	20	24	5	17	42

(v)

Weight (in kg)	54 - 64	64 - 74	74 - 84	84 - 94	94 - 104	104 - 114	114 - 124
No. of students	17	20	33	19	5	17	42

7. Heights of 55 students (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	123 - 130	131 - 138	139 - 146	147 - 154	155 - 162
No. of students	8	12	11	5	19

(ii)

Height (in cm)	123 - 130	131 - 138	139 - 146	147 - 154	155 - 162
No. of students	8	19	12	5	11

(iii)

Height (in cm)	123 - 130	131 - 138	139 - 146	147 - 154	155 - 162
No. of students	8	7	12	5	19

(iv)

Height (in cm)	123 - 130	131 - 138	139 - 146	147 - 154	155 - 162
No. of students	8	11	12	5	19

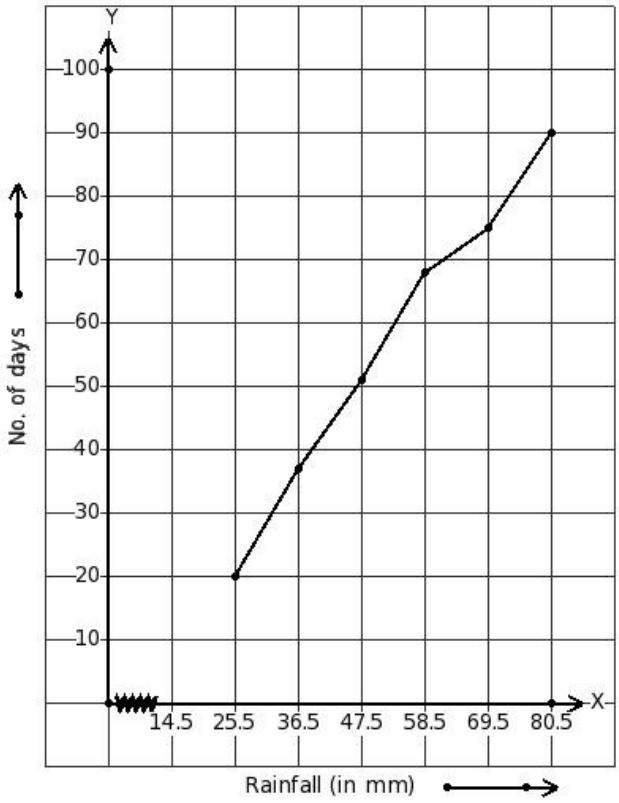
(v)

Height (in cm)	123 - 130	131 - 138	139 - 146	147 - 154	155 - 162
No. of students	8	11	9	5	19

8. Find the median of the first 20 odd numbers.

(i) 18 (ii) 23 (iii) 19 (iv) 20 (v) 21

9. Rainfall of 90 days (in mm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Rainfall (in mm)	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80
No. of days	20	17	14	15	7	15

(ii)

Rainfall (in mm)	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80
No. of days	20	17	10	17	7	15

(iii)

Rainfall (in mm)	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80
No. of days	20	14	17	17	7	15

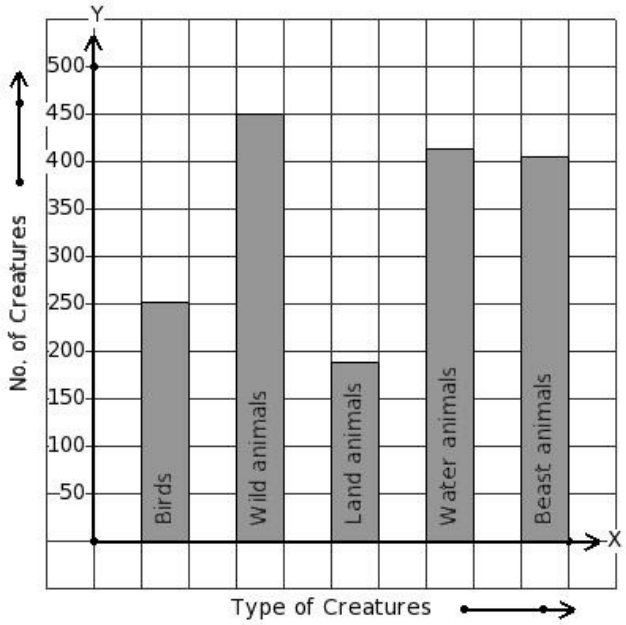
(iv)

Rainfall (in mm)	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80
No. of days	20	17	14	17	7	15

(v)

Rainfall (in mm)	15 - 25	26 - 36	37 - 47	48 - 58	59 - 69	70 - 80
No. of days	20	15	14	17	7	17

10. There are 1710 creatures in a zoo as shown in the bar graph. Identify the table for the given bar diagram.



(i)

Type of Creatures	Birds	Wild animals	Land animals	Water animals	Beast animals
No. of Creatures	405	252	450	414	189

(ii)

Type of Creatures	Birds	Wild animals	Land animals	Water animals	Beast animals
No. of Creatures	414	450	252	405	189

(iii)

Type of Creatures	Birds	Wild animals	Land animals	Water animals	Beast animals
No. of Creatures	414	252	189	450	405

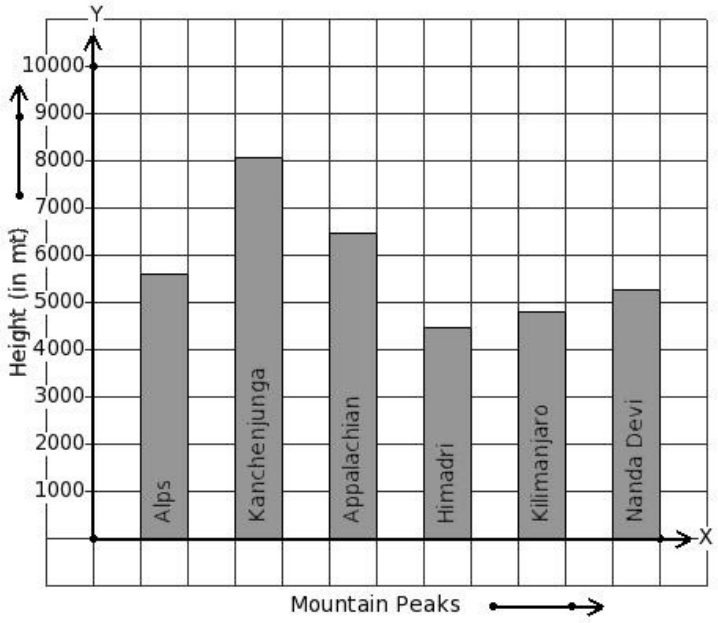
(iv)

Type of Creatures	Birds	Wild animals	Land animals	Water animals	Beast animals
No. of Creatures	414	450	405	252	189

(v)

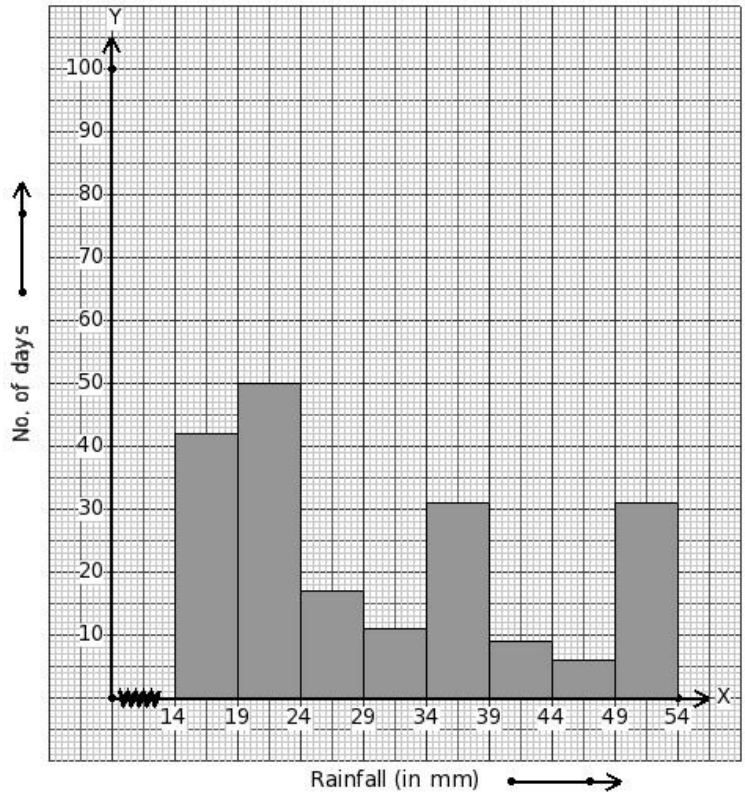
Type of Creatures	Birds	Wild animals	Land animals	Water animals	Beast animals
No. of Creatures	252	450	189	414	405

11. Given below is the column-graph showing heights of some mountain peaks. Find the mountain that has 4807 m height.



(i) Nanda Devi (ii) Alps (iii) Kanchenjunga (iv) Himadri (v) Kilimanjaro

12. Rainfall of 197 days (in mm) are given below. Identify the class interval table for the given histogram.



(i)

Rainfall (in mm)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	42	50	20	11	31	9	6	31

(ii)

Rainfall (in mm)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	42	50	17	11	31	9	6	31

(iii)

Rainfall (in mm)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	42	50	11	17	31	9	6	31

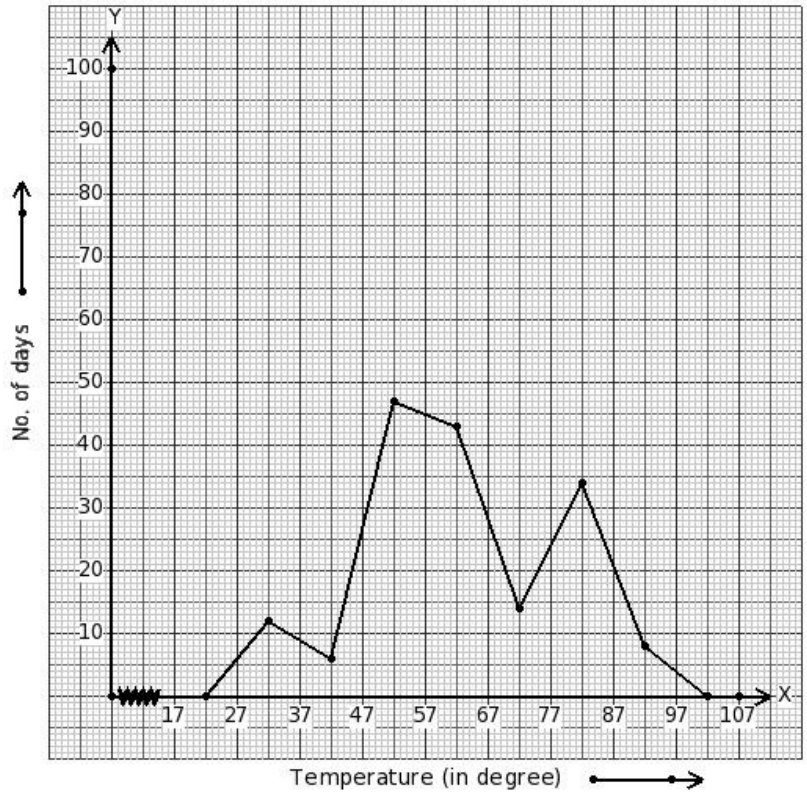
(iv)

Rainfall (in mm)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	42	50	17	11	27	9	6	31

(v)

Rainfall (in mm)	14 - 19	19 - 24	24 - 29	29 - 34	34 - 39	39 - 44	44 - 49	49 - 54
No. of days	42	31	17	11	31	9	6	50

13. Temperatures of 164 days (in °C) are given below.
Identify the class interval table for the given frequency polygon.



(i)

Temperature (in degree)	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87	87 - 97
No. of days	12	8	47	43	14	34	6

(ii)

Temperature (in degree)	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87	87 - 97
No. of days	12	6	47	43	14	34	8

(iii)

Temperature (in degree)	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87	87 - 97
No. of days	12	47	6	43	14	34	8

(iv)

Temperature (in degree)	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87	87 - 97
No. of days	12	6	47	45	14	34	8

(v)

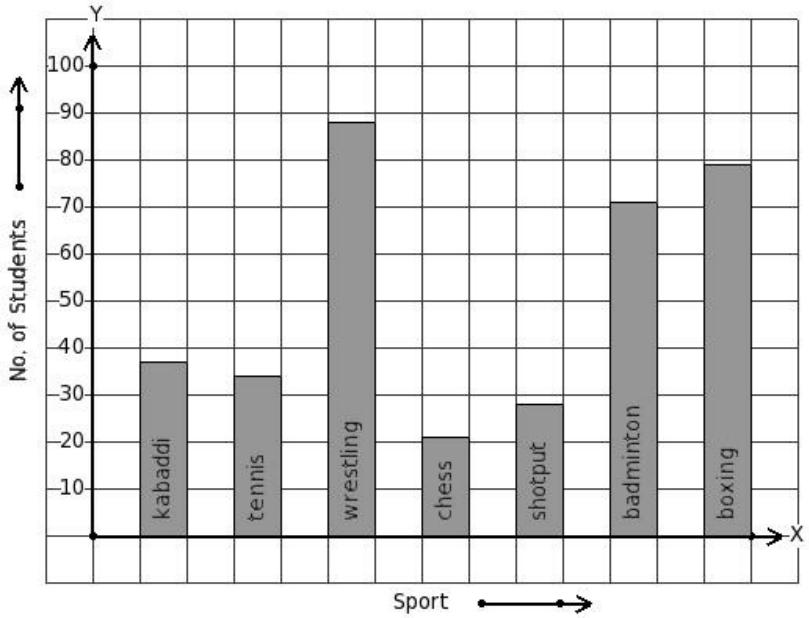
Temperature (in degree)	27 - 37	37 - 47	47 - 57	57 - 67	67 - 77	77 - 87	87 - 97
No. of days	12	6	51	43	14	34	8

14. The class size used in the below table is

Class-Interval	23 - 28	29 - 34	35 - 40	41 - 46	47 - 52	53 - 58	59 - 64
Frequency	28	20	21	16	21	26	26

(i) 7 (ii) 8 (iii) 6 (iv) 5 (v) 3

15. The number of bars present in the bar chart of the following table is

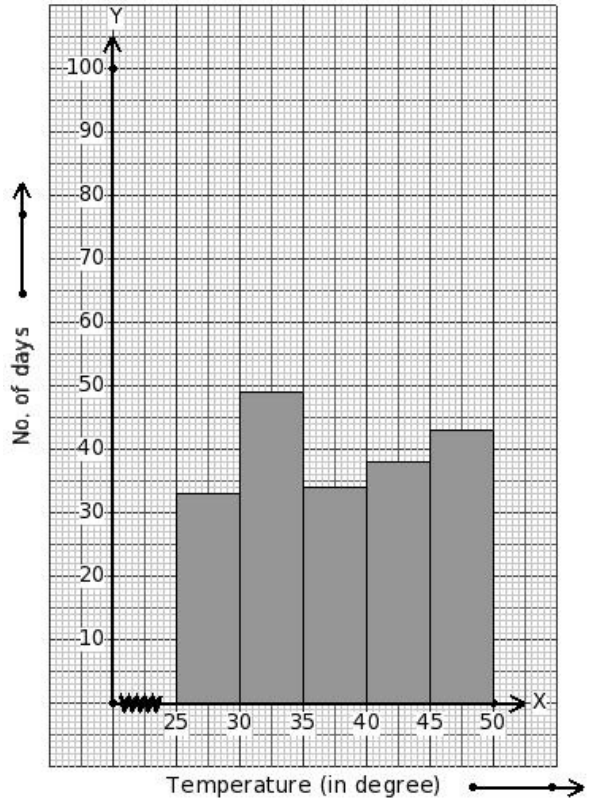


(i) 7 (ii) 5 (iii) 8 (iv) 9 (v) 6

16. In exclusive form representation, the observation 38 falls in which class?

(i) 43-53 (ii) 28-38 (iii) 33-38 (iv) 38-48 (v) 48-58

17. Temperatures of 197 days (in °C) are given below. Identify the class mark table for the given histogram.



(i)

Temperature (in degree)	27.5	32.5	37.5	42.5	47.5
No. of days	33	34	49	38	43

(ii)

Temperature (in degree)	27.5	32.5	37.5	42.5	47.5
No. of days	33	49	34	38	43

(iii)

Temperature (in degree)	27.5	32.5	37.5	42.5	47.5
No. of days	33	49	32	38	43

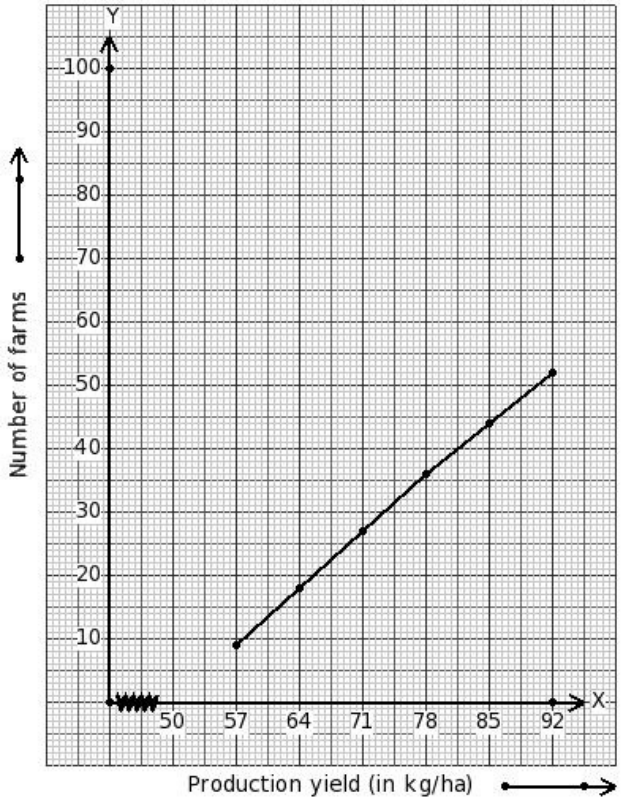
(iv)

Temperature (in degree)	27.5	32.5	37.5	42.5	47.5
No. of days	33	43	34	38	49

(v)

Temperature (in degree)	27.5	32.5	37.5	42.5	47.5
No. of days	33	53	34	38	43

18. The production yield in kg per hectare of wheat of 52 farms of a village is given below. Identify the frequency distribution table for the given less than ogive.



(i)

Production yield (in kg/ha)	less than 57	less than 64	less than 71	less than 78	less than 85	less than 92
Number of farms	9	18	31	40	48	56

(ii)

Production yield (in kg/ha)	less than 57	less than 64	less than 71	less than 78	less than 85	less than 92
Number of farms	9	18	27	36	44	52

(iii)

Production yield (in kg/ha)	less than 57	less than 64	less than 71	less than 78	less than 85	less than 92
Number of farms	9	17	26	35	43	52

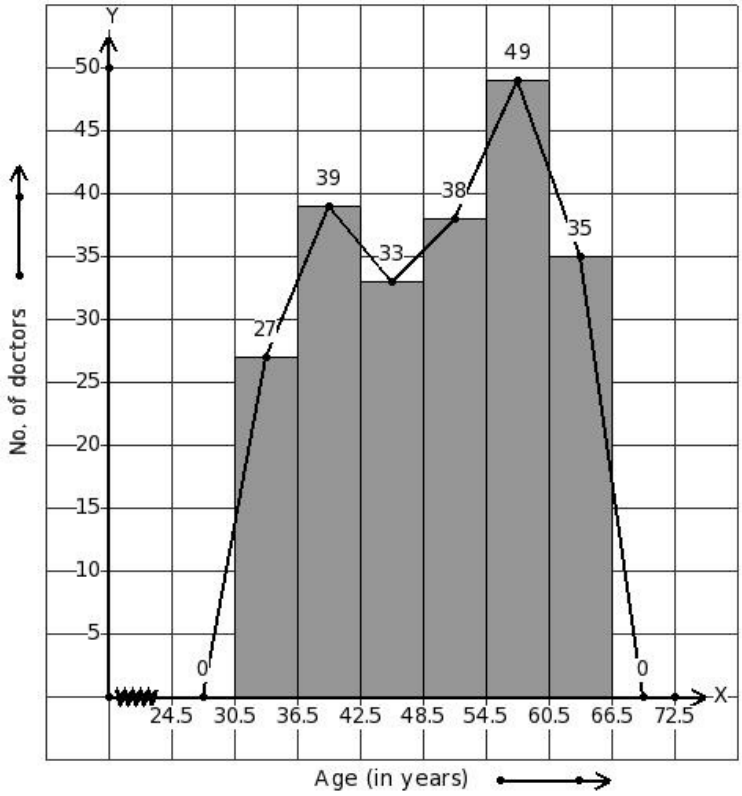
(iv)

Production yield (in kg/ha)	less than 57	less than 64	less than 71	less than 78	less than 85	less than 92
Number of farms	9	18	27	40	48	56

19. Pie-diagram consists of

(i) sectors (ii) circles (iii) squares (iv) triangles

20. 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)	31 - 36	37 - 42	43 - 48	49 - 54	55 - 60	61 - 66
No. of doctors	27	39	33	38	49	35

(ii)

Age (in years)	31 - 36	37 - 42	43 - 48	49 - 54	55 - 60	61 - 66
No. of doctors	27	39	36	38	49	35

(iii)

Age (in years)	31 - 36	37 - 42	43 - 48	49 - 54	55 - 60	61 - 66
No. of doctors	27	35	33	38	49	39

(iv)

Age (in years)	31 - 36	37 - 42	43 - 48	49 - 54	55 - 60	61 - 66
No. of doctors	27	33	39	38	49	35

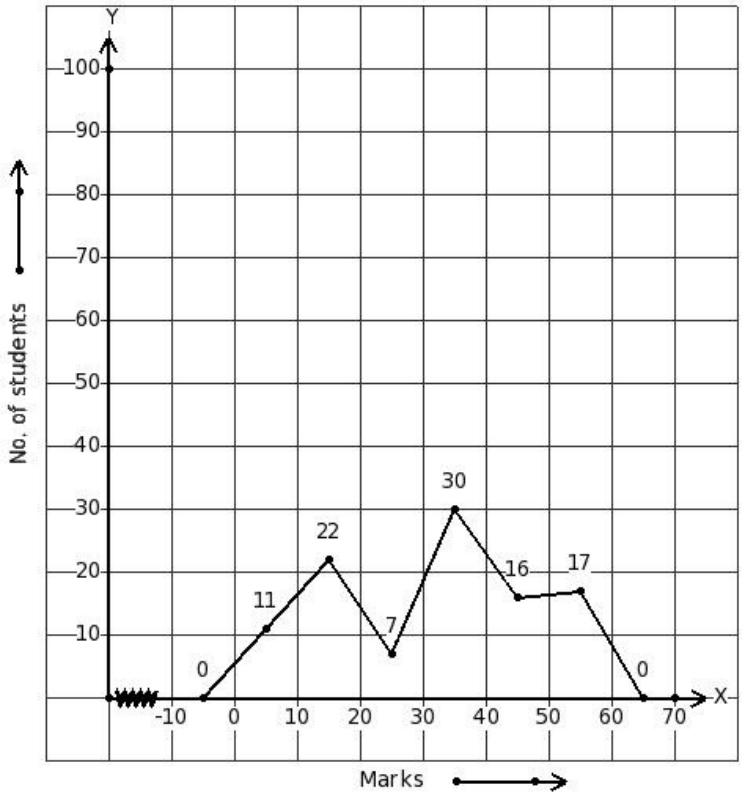
(v)

Age (in years)	31 - 36	37 - 42	43 - 48	49 - 54	55 - 60	61 - 66
No. of doctors	27	39	33	36	49	35

21. Find the median of the first 10 even numbers.

(i) 12 (ii) 8 (iii) 10 (iv) 11 (v) 14

22. Marks obtained by 103 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	11	22	7	26	16	17

(ii)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	11	7	22	30	16	17

(iii)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	11	22	9	30	16	17

(iv)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	11	22	7	30	16	17

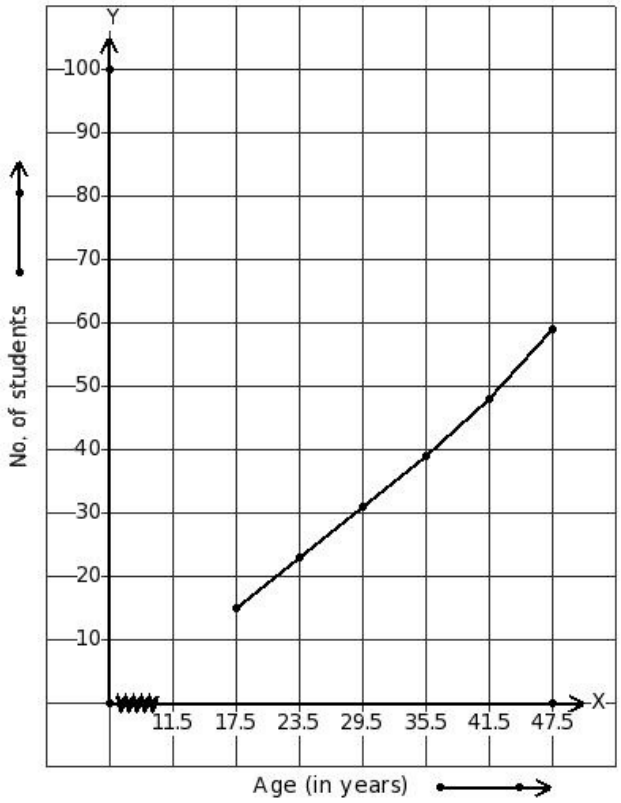
(v)

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
No. of students	11	17	7	30	16	22

23. Find the mean of the first 20 even numbers.

(i) 18 (ii) 24 (iii) 22 (iv) 21 (v) 20

24. Ages of 59 students (in years) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Age (in years)	12 - 17	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47
No. of students	15	11	8	8	9	8

(ii)

Age (in years)	12 - 17	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47
No. of students	15	8	10	8	9	11

(iii)

Age (in years)	12 - 17	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47
No. of students	15	8	8	11	9	11

(iv)

Age (in years)	12 - 17	18 - 23	24 - 29	30 - 35	36 - 41	42 - 47
No. of students	15	8	8	8	9	11

The marks obtained by 16 students in an examination are given below.

25. Represent the data in the form of a frequency distribution table in inclusive form taking class size 5 .

50 66 65 47 76 48 40 50 78 65 59 44 73 50 41 70

(i)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	2	3	1	4	3	2	2

(ii)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	2	1	3	0	3	2	2

(iii)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	2	3	1	0	3	2	2

(iv)

Marks	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79
No. of Students	3	2	6	1	0	3	2	2

Assignment Key

1) (ii)	2) (ii)	3) (iii)	4) (iii)	5) (iv)	6) (i)
7) (iv)	8) (iv)	9) (iv)	10) (v)	11) (v)	12) (ii)
13) (ii)	14) (iii)	15) (i)	16) (iv)	17) (ii)	18) (ii)
19) (i)	20) (i)	21) (iv)	22) (iv)	23) (iv)	24) (iv)
25) (iii)					