EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Frequency Distribution Tables and Graphs

Grade : SSC Grade VIII

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1. In inclusive form representation, the observation 37 falls in which class?

   (i) 26-36 (ii) 22-32 (iii) 27-37 (iv) 17-27 (v) 38-47

2. Less than cumulative curves are drawn using

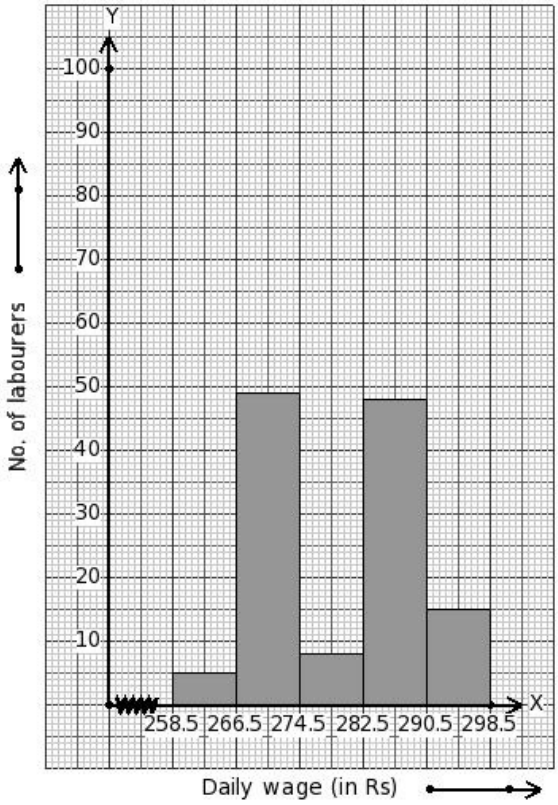
   (i) upper boundaries of classes and less than cumulative frequencies

   (ii) mid values of classes and less than cumulative frequencies

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

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

3. Daily wages of 125 labourers (in ₹) are given below. Identify the class mark table for the given histogram.



(i)

Daily wage (in Rs)	262.5	270.5	278.5	286.5	294.5
No. of labourers	5	54	8	48	15

(ii)

Daily wage (in Rs)	262.5	270.5	278.5	286.5	294.5
No. of labourers	5	49	8	48	15

(iii)

Daily wage (in Rs)	262.5	270.5	278.5	286.5	294.5
No. of labourers	5	15	8	48	49

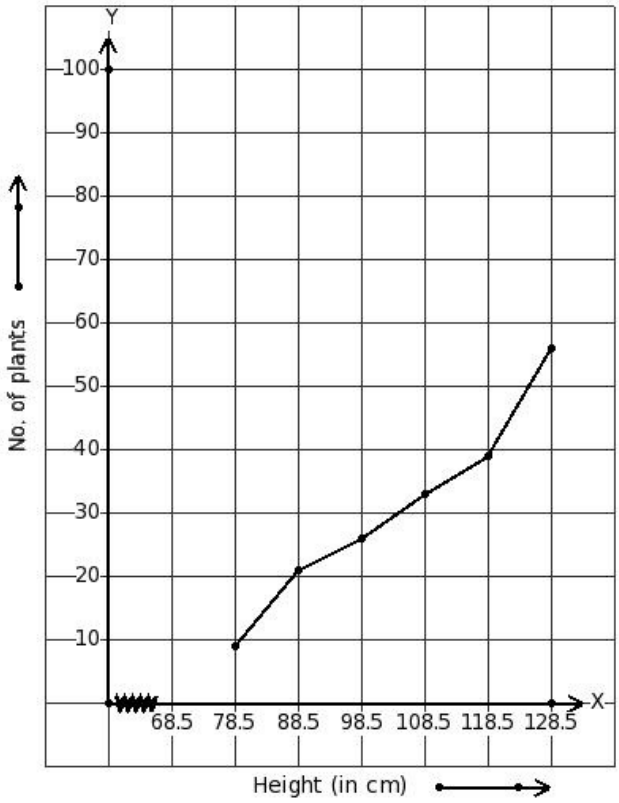
(iv)

Daily wage (in Rs)	262.5	270.5	278.5	286.5	294.5
No. of labourers	5	8	49	48	15

(v)

Daily wage (in Rs)	262.5	270.5	278.5	286.5	294.5
No. of labourers	5	49	3	48	15

4. Heights of 56 plants (in cm) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Height (in cm)	69 - 78	79 - 88	89 - 98	99 - 108	109 - 118	119 - 128
No. of plants	9	12	10	7	6	17

(ii)

Height (in cm)	69 - 78	79 - 88	89 - 98	99 - 108	109 - 118	119 - 128
No. of plants	9	12	5	7	6	17

(iii)

Height (in cm)	69 - 78	79 - 88	89 - 98	99 - 108	109 - 118	119 - 128
No. of plants	9	12	5	11	6	17

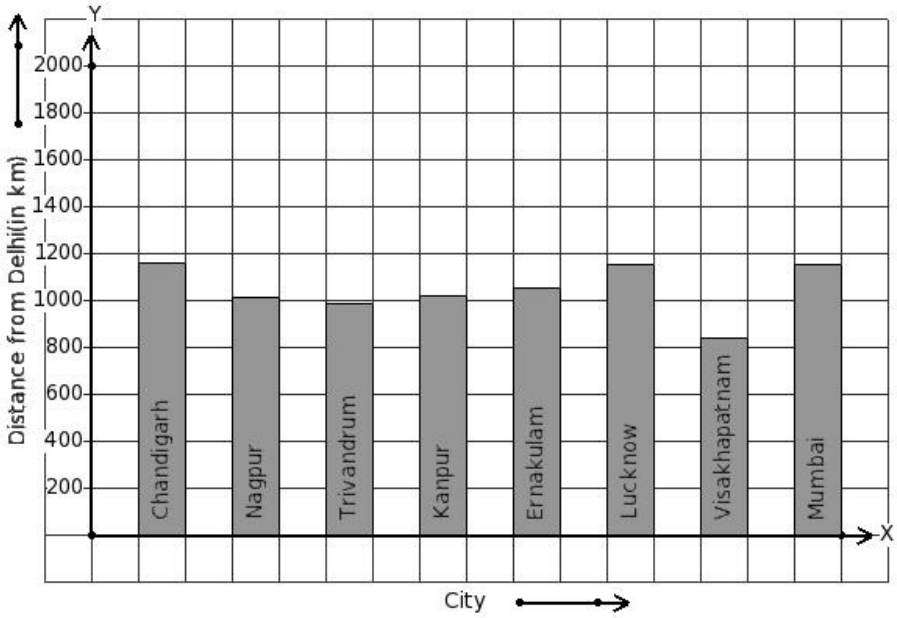
(iv)

Height (in cm)	69 - 78	79 - 88	89 - 98	99 - 108	109 - 118	119 - 128
No. of plants	9	5	12	7	6	17

(v)

Height (in cm)	69 - 78	79 - 88	89 - 98	99 - 108	109 - 118	119 - 128
No. of plants	9	17	5	7	6	12

5. The air distance of some cities from Delhi (in km) are given below. Find the city that has minimum distance.



(i) Ernakulam (ii) Mumbai (iii) Nagpur (iv) Visakhapatnam (v) Kanpur

6. Scores of 12 students are given below. Find the mode score.

76 86 80 84 74 90 80 76 82 72 73 76

(i) 77 (ii) 76 (iii) 74 (iv) 78 (v) 75

7. Identify the cumulative frequency of the given grouped data.

class interval	17 - 24	25 - 32	33 - 40	41 - 48
frequency	19	11	13	24

(i)

class interval	**Cumulative Frequency**
17 - 24	19
25 - 32	30
33 - 40	46
41 - 48	70

(ii)

class interval	**Cumulative Frequency**
17 - 24	19
25 - 32	30
33 - 40	43
41 - 48	67

(iii)

class interval	**Cumulative Frequency**
17 - 24	19
25 - 32	25
33 - 40	38
41 - 48	62

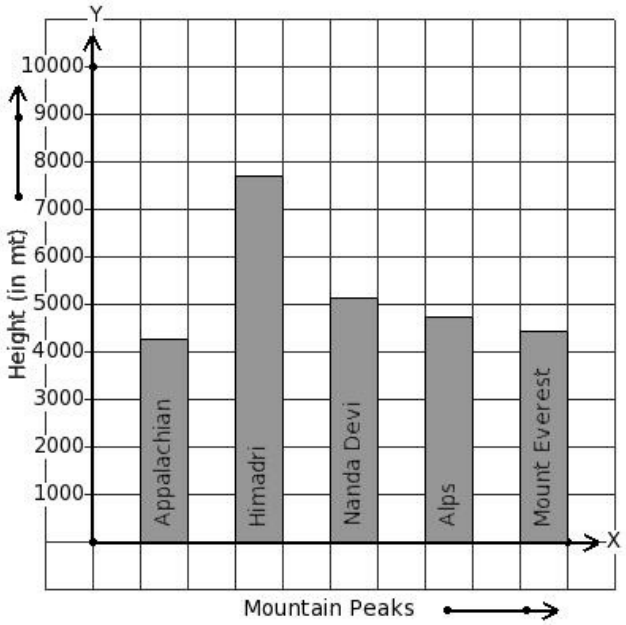
(iv)

class interval	**Cumulative Frequency**
17 - 24	19
25 - 32	32
33 - 40	43
41 - 48	67

(v)

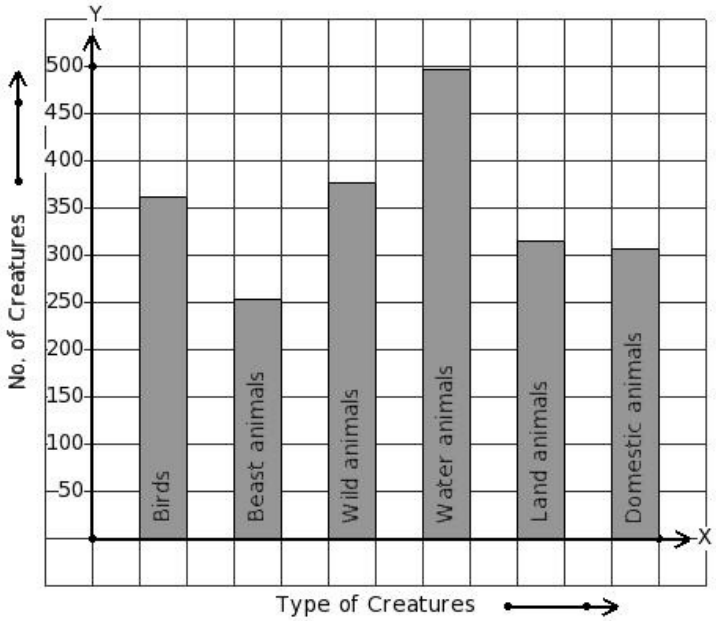
class interval	**Cumulative Frequency**
17 - 24	24
25 - 32	35
33 - 40	48
41 - 48	67

8. Given below is the column-graph showing heights of some mountain peaks. Find the mountain that has minimum height.



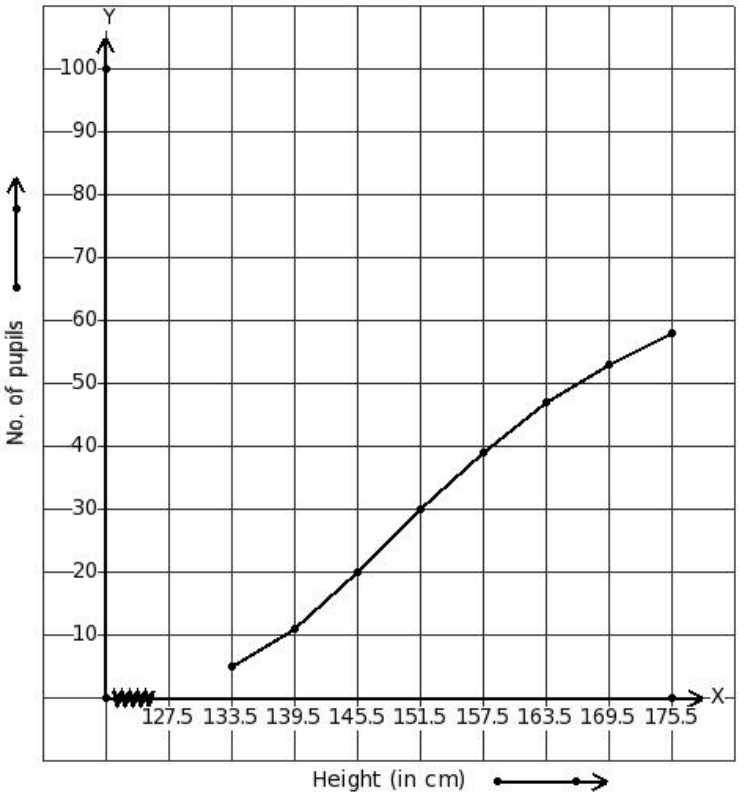
(i) Mount Everest (ii) Alps (iii) Nanda Devi (iv) Appalachian (v) Himadri

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



(i) Wild animals (ii) Land animals (iii) Water animals (iv) Domestic animals (v) Beast animals

10. The heights of 58 pupils in a school are given below. Identify the frequency distribution table for the given ' less than ' ogive.



(i)

Height (in cm)	128 - 133	134 - 139	140 - 145	146 - 151	152 - 157	158 - 163	164 - 169	170 - 175
No. of pupils	5	6	9	10	11	8	6	5

(ii)

Height (in cm)	128 - 133	134 - 139	140 - 145	146 - 151	152 - 157	158 - 163	164 - 169	170 - 175
No. of pupils	5	5	9	10	9	8	6	6

(iii)

Height (in cm)	128 - 133	134 - 139	140 - 145	146 - 151	152 - 157	158 - 163	164 - 169	170 - 175
No. of pupils	5	6	9	10	9	8	6	5

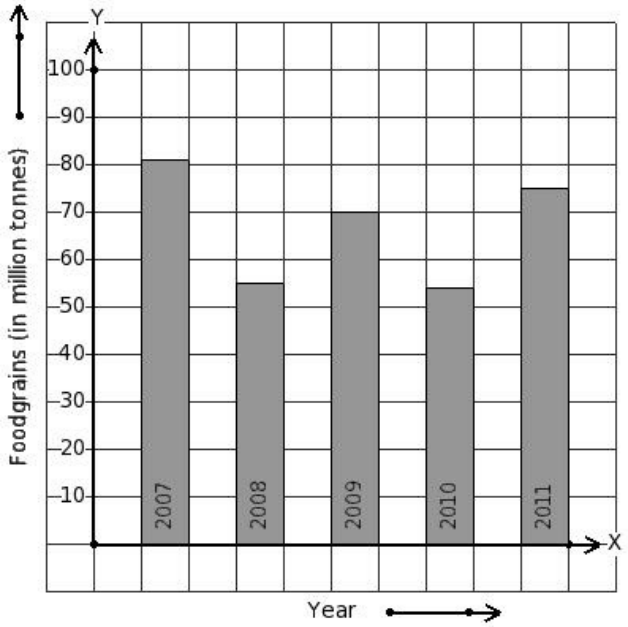
(iv)

Height (in cm)	128 - 133	134 - 139	140 - 145	146 - 151	152 - 157	158 - 163	164 - 169	170 - 175
No. of pupils	5	6	10	9	9	8	6	5

(v)

Height (in cm)	128 - 133	134 - 139	140 - 145	146 - 151	152 - 157	158 - 163	164 - 169	170 - 175
No. of pupils	5	6	7	10	9	8	6	5

11. Read the column-graph given below. Find the year that has maximum food grains production.



(i) 2011 (ii) 2008 (iii) 2007 (iv) 2010 (v) 2009

12. Heights of 14 plants (in cm) are given below. Find the median height.
92 87 87 85 65 55 51 95 52 60 75 75 97 62

(i) 76 cm (ii) 75 cm (iii) 73 cm (iv) 74 cm (v) 77 cm

13. The daily wages (in rupees) of 17 workers in a factory are given below.
Represent the data in the form of a frequency distribution in inclusive form taking class size 30.
200 204 214 242 273 296 289 291 277 206 213 247 280 267 250 242 245

(i)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	5	5	5	2

(ii)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	5	1	5	2

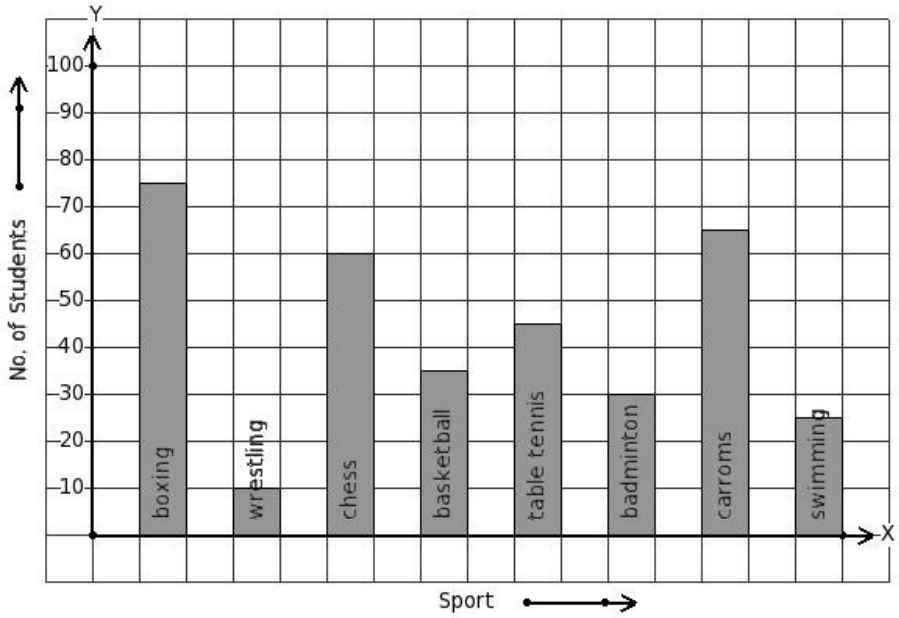
(iii)

Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	5	5	10	2

(iv)

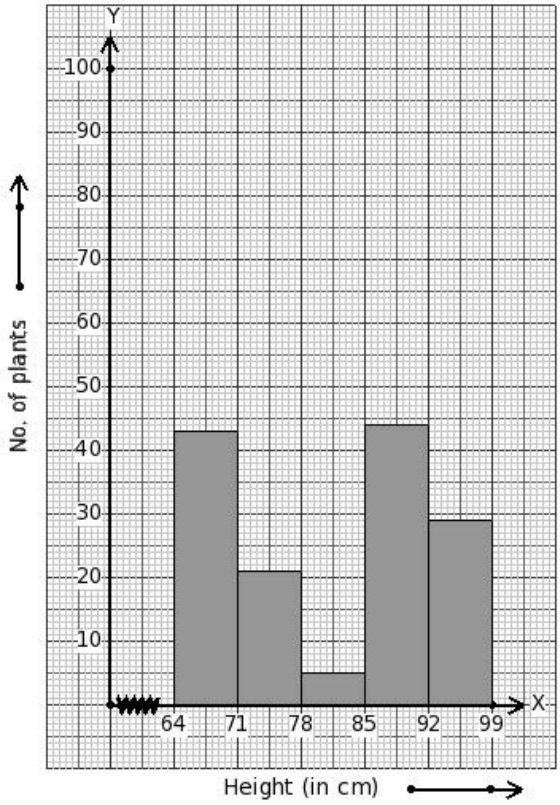
Wages (in rupees)	200 - 229	230 - 259	260 - 289	290 - 319
No. of Workers	2	5	5	5

14. Given the bar graph, find the maximum frequency



(i) 90 (ii) 80 (iii) 70 (iv) 75 (v) 85

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



(i)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99
No. of plants	43	21	5	44	29

(ii)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99
No. of plants	43	29	5	44	21

(iii)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99
No. of plants	43	23	5	44	29

(iv)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99
No. of plants	43	21	10	44	29

(v)

Height (in cm)	64 - 71	71 - 78	78 - 85	85 - 92	92 - 99
No. of plants	43	5	21	44	29

16. Find the median of first 9 whole numbers.

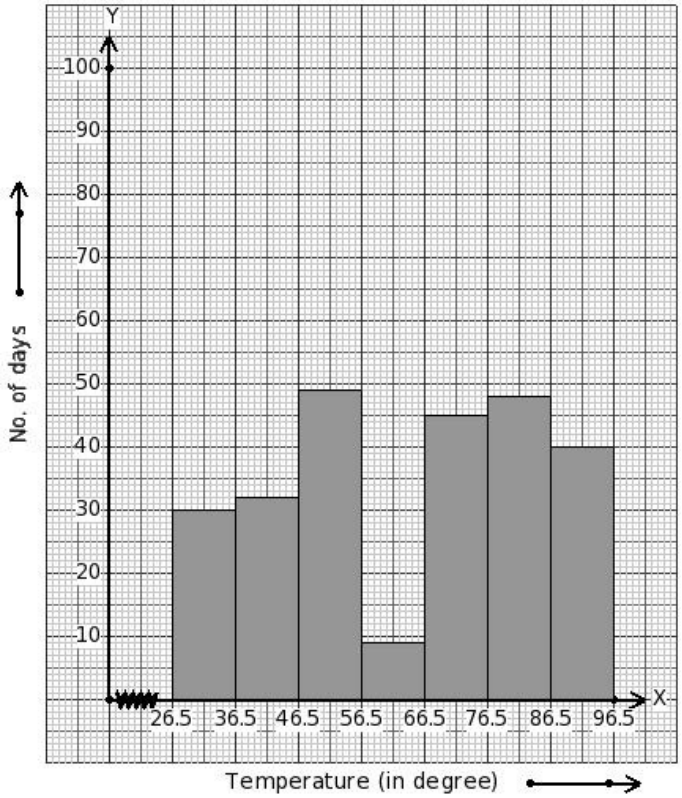
(i) 6 (ii) 1 (iii) 5 (iv) 4 (v) 3

17. Which of the following class intervals are in inclusive form?

a) 23 - 33 , 34 - 44 , 45 - 55,...
b) 22.5 - 33.5 , 33.5 - 44.5 , 44.5 - 55.5...
c) 23 - 33 , 33 - 43 , 43 - 53,...
d) 53 - 63 , 63 - 73 , 73 - 83...
e) 56 - 66 , 67 - 77 , 78 - 88,...

(i) {c,e} (ii) {a,e} (iii) {d,b,a} (iv) {b,a} (v) {c,e,a}

18. Temperatures of 253 days (in °C) are given below. Identify the class interval table for the given histogram.



(i)

Temperature (in degree)	27 - 36	37 - 46	47 - 56	57 - 66	67 - 76	77 - 86	87 - 96
No. of days	30	49	32	9	45	48	40

(ii)

Temperature (in degree)	27 - 36	37 - 46	47 - 56	57 - 66	67 - 76	77 - 86	87 - 96
No. of days	30	32	46	9	45	48	40

(iii)

Temperature (in degree)	27 - 36	37 - 46	47 - 56	57 - 66	67 - 76	77 - 86	87 - 96
No. of days	30	32	49	13	45	48	40

(iv)

Temperature (in degree)	27 - 36	37 - 46	47 - 56	57 - 66	67 - 76	77 - 86	87 - 96
No. of days	30	40	49	9	45	48	32

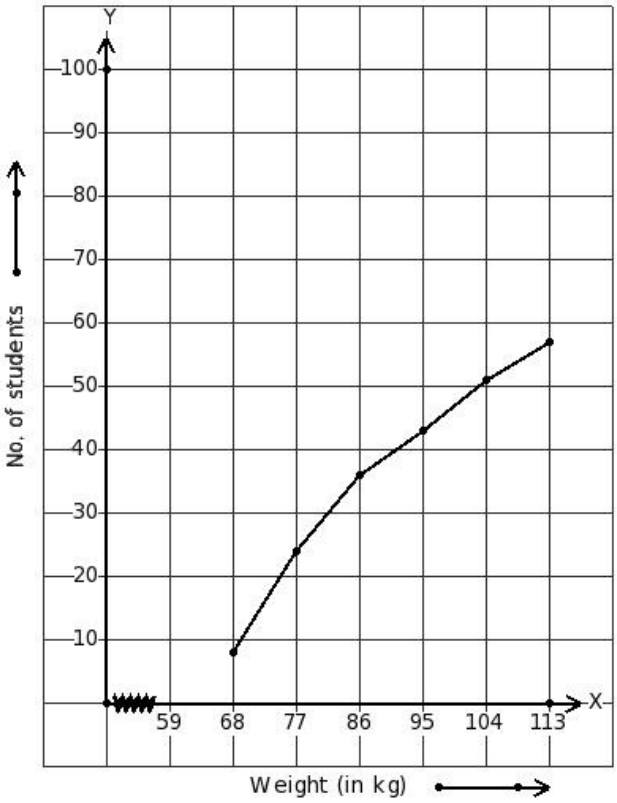
(v)

Temperature (in degree)	27 - 36	37 - 46	47 - 56	57 - 66	67 - 76	77 - 86	87 - 96
No. of days	30	32	49	9	45	48	40

19. Given class interval 38 - 45 in exclusive form, its mid value is

(i) $\frac{85}{2}$ (ii) $\frac{83}{2}$ (iii) $\frac{81}{2}$ (iv) $\frac{165}{4}$ (v) 42

20. Weights of 57 students (in kg) are given below. Identify the frequency distribution table for the given 'less than ' ogive.



(i)

Weight (in kg)	59 - 68	68 - 77	77 - 86	86 - 95	95 - 104	104 - 113
No. of students	8	16	17	7	8	6

(ii)

Weight (in kg)	59 - 68	68 - 77	77 - 86	86 - 95	95 - 104	104 - 113
No. of students	8	6	12	7	8	16

(iii)

Weight (in kg)	59 - 68	68 - 77	77 - 86	86 - 95	95 - 104	104 - 113
No. of students	8	16	12	7	8	6

(iv)

Weight (in kg)	59 - 68	68 - 77	77 - 86	86 - 95	95 - 104	104 - 113
No. of students	8	16	12	3	8	6

(v)

Weight (in kg)	59 - 68	68 - 77	77 - 86	86 - 95	95 - 104	104 - 113
No. of students	8	12	16	7	8	6

21. Rainfall of 14 days (in mm) are given below. Find the mean rainfall.
6 11 8 15 12 13 11 8 12 14 6 10 15 5

(i) $\frac{80}{7}$ mm (ii) $\frac{73}{7}$ mm (iii) $\frac{74}{7}$ mm (iv) $\frac{87}{7}$ mm (v) $\frac{75}{7}$ mm

22. The observations of an ungrouped data are $x_1, x_2, 2x_1$ and $x_1 < x_2 < 2x_1$.
If the mean and median of the data are equal to 30,
find the observations of the data

(i) $40, 30, 80$ (ii) $20, 30, 40$ (iii) $21, 30, 42$ (iv) $24, 30, 44$

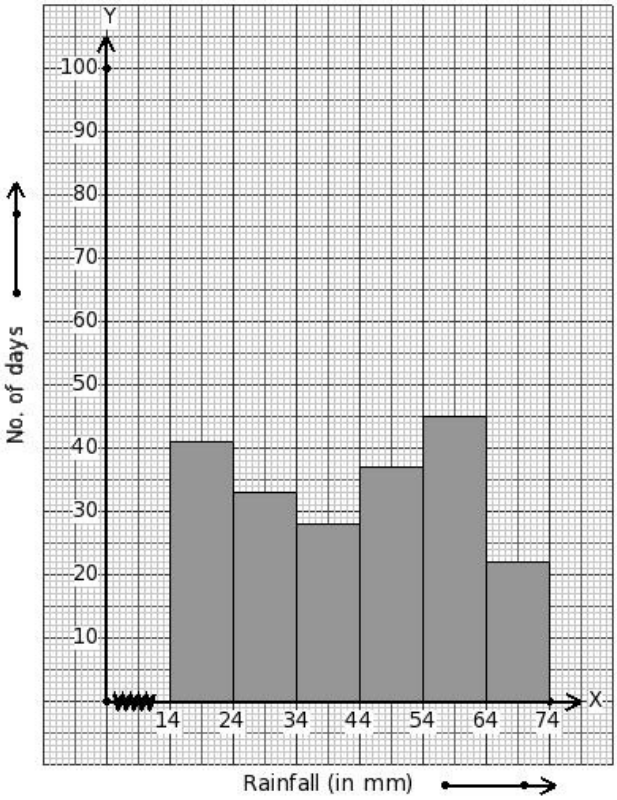
23. If the lower and upper limit of class interval are 50 and 58 respectively, then the class interval is

(i) 50-58 (ii) 49.5-58 (iii) 49.5-58.5 (iv) 50.5-57.5 (v) 50-58.5

24. Pie-diagram consists of

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

25. Rainfall of 206 days (in mm) are given below. Identify the class mark table for the given histogram.



(i)

Rainfall (in mm)	19	29	39	49	59	69
No. of days	41	33	28	37	45	22

(ii)

Rainfall (in mm)	19	29	39	49	59	69
No. of days	41	28	33	37	45	22

(iii)

Rainfall (in mm)	19	29	39	49	59	69
No. of days	41	22	28	37	45	33

(iv)

Rainfall (in mm)	19	29	39	49	59	69
No. of days	41	33	33	37	45	22

(v)

Rainfall (in mm)	19	29	39	49	59	69
No. of days	41	33	28	35	45	22

Assignment Key

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

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