EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Statistics

Grade : ICSE Grade VIII

1. The class mark of the class with frequency x is

Class-Interval	Frequency
2 - 12	6
12 - 22	19
22 - 32	x
32 - 42	24
42 - 52	2

(i) 30 (ii) 26 (iii) 28 (iv) 27 (v) 25

2. The mean of the below random sample is $35\frac{2}{5}$. Find the missing quantity. 39 47 44 10 31 x 29 17 50 41

(i) 46 (ii) 49 (iii) 47 (iv) 43 (v) 45

3. Ages of 30 students are given below. Find the mean.

Age (in years)	10	11	12	13	14	15
No. of students	5	2	9	6	5	3

(i) $\frac{403}{30}$ years (ii) $\frac{433}{30}$ years (iii) $\frac{187}{15}$ years (iv) $\frac{25}{2}$ years (v) $\frac{373}{30}$ years

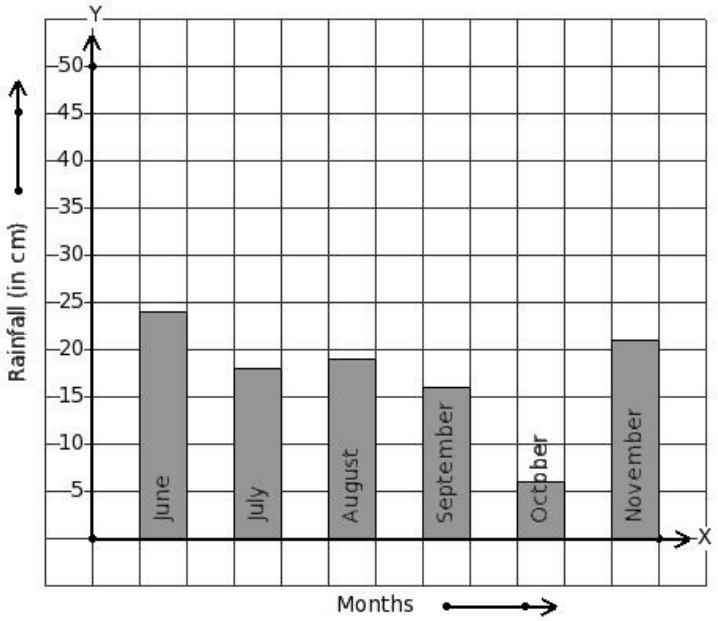
4. Find the mean of first 8 whole numbers.

(i) $\frac{5}{2}$ (ii) $\frac{9}{2}$ (iii) $\frac{7}{2}$ (iv) 4 (v) $\frac{13}{4}$

5. Find the mean of all prime numbers between 30 and 90.

(i) $\frac{419}{7}$ (ii) $\frac{299}{5}$ (iii) $\frac{417}{7}$ (iv) $\frac{415}{7}$ (v) $\frac{535}{9}$

6. Read the given column-graph. Find the month that has maximum rainfall.



(i) June (ii) October (iii) July (iv) August (v) September

7. Rainfall of 13 days (in mm) are given below. Find the median rainfall.
15 12 13 13 5 8 7 14 13 9 7 11 13

(i) 12 mm (ii) 13 mm (iii) 10 mm (iv) 14 mm (v) 11 mm

8. Find the median of all the factors of 30.

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

9. Rainfall of 10 days are given below. Find the mean.

Rainfall (in mm)	5	7	8	9	10	14
No. of days	1	2	2	1	1	3

(i) $\frac{53}{5}$ mm (ii) $\frac{58}{5}$ mm (iii) 10 mm (iv) $\frac{49}{5}$ mm (v) $\frac{48}{5}$ mm

10. The scores obtained by 15 students in a test are given below. Find the mode.
3 4 3 3 8 28 12 23 13 22 15 29 19 18 2

(i) 14 (ii) 2 (iii) 27 (iv) $14\frac{3}{14}$ (v) 3

11. Find the median of first 9 whole numbers.

(i) 7 (ii) 5 (iii) 4 (iv) 1 (v) 3

12. The mean of 8 numbers is $14\frac{1}{2}$. Upon excluding one number, the mean becomes $13\frac{6}{7}$. Find the excluded number.

(i) 18 (ii) 21 (iii) 16 (iv) 19 (v) 20

13. The marks obtained by 14 students in a test are given below. Find the mean of their marks when the marks of each student is doubled.
36 46 40 16 1 17 5 7 29 32 34 5 27 1

(i) $\frac{296}{7}$ (ii) $\frac{212}{5}$ (iii) $\frac{380}{9}$ (iv) 42 (v) $\frac{298}{7}$

14. Heights of 14 students (in cm) are given below. Find the mode height.
130 165 147 136 171 166 159 154 165 135 145 170 133 165

(i) 166 cm (ii) 165 cm (iii) 167 cm (iv) 163 cm (v) 164 cm

15. Ages of 10 students (in years) are given below. Find the mean age.
15 15 14 11 11 11 11 11 11 15

(i) $\frac{29}{2}$ years (ii) $\frac{25}{2}$ years (iii) 13 years (iv) $\frac{27}{2}$ years

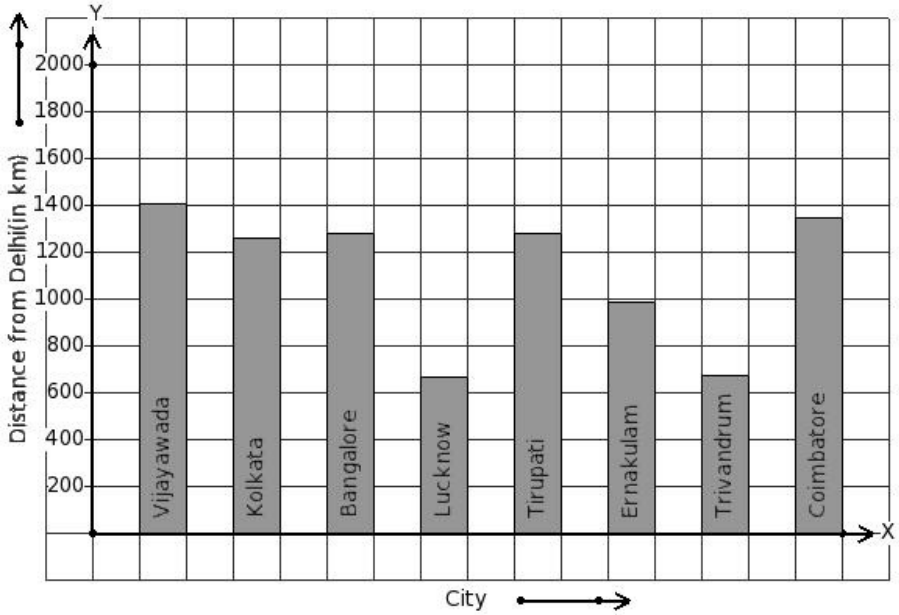
16. The marks obtained by 10 students in a test are given below. Find their mean marks.
29 19 32 40 46 6 44 27 48 47

(i) $\frac{235}{7}$ (ii) $\frac{167}{5}$ (iii) $\frac{103}{3}$ (iv) $\frac{171}{5}$ (v) $\frac{169}{5}$

17. Find the mean of the first 15 even numbers.

(i) 14 (ii) 15 (iii) 16 (iv) 18 (v) 17

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



(i) Trivandrum (ii) Coimbatore (iii) Lucknow (iv) Vijayawada (v) Ernakulam

19. Convert the inclusive form of the class interval 20 - 30 to exclusive form

(i) 19-30.5 (ii) 19.5-30.5 (iii) 20-30 (iv) 19-31 (v) 19.5-31

20. The marks obtained by 14 students in a test are given below. Find the mean of their marks when the marks of each student is decreased by 4.
46 33 36 46 1 20 6 20 45 7 30 36 17 34

(i) $\frac{321}{14}$ (ii) $\frac{277}{12}$ (iii) $\frac{323}{14}$ (iv) $\frac{365}{16}$ (v) $\frac{319}{14}$

21. If the lower and upper limit of class interval are 33 and 35 respectively, then the class interval is

(i) 33-35.5 (ii) 33-35 (iii) 32.5-35 (iv) 33.5-34.5 (v) 32.5-35.5

22. The true lower limit and true upper limit of the class with frequency x is

Class-Interval	Frequency
12 - 17	10
17 - 22	30
22 - 27	2
27 - 32	29
32 - 37	x

(i) 32-37 (ii) 31.5-37 (iii) 32.5-36.5 (iv) 31.5-37.5 (v) 32-37.5

23. The arithmetic mean of 4 24 48 6 17 47 39 is

(i) 24.43 (ii) 26.43 (iii) 27.43 (iv) 25.43 (v) 28.43

The marks obtained by 15 students in an examination are given below.

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

41 66 63 63 53 50 53 78 48 77 53 61 57 49 69

(i)

Marks	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65	66 - 70	71 - 75	76 - 80
No. of Students	1	3	3	1	1	2	0	2

(ii)

Marks	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65	66 - 70	71 - 75	76 - 80
No. of Students	1	3	1	3	3	2	0	2

(iii)

Marks	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65	66 - 70	71 - 75	76 - 80
No. of Students	1	2	3	1	3	2	0	3

(iv)

Marks	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65	66 - 70	71 - 75	76 - 80
No. of Students	1	3	6	1	3	2	0	2

(v)

Marks	41 - 45	46 - 50	51 - 55	56 - 60	61 - 65	66 - 70	71 - 75	76 - 80
No. of Students	1	3	3	1	3	2	0	2

The weights (in gm) of 20 fruits are as follows. Form the grouped frequency table in inclusive form

25. by taking class size 40.

348 297 230 213 338 351 293 388 221 287 276 216 357 353 331 327 325 311 368 239

(i)

Weight (in gm)	213 - 252	253 - 292	293 - 332	333 - 372	373 - 412
No. of Fruits	5	1	6	6	2

(ii)

Weight (in gm)	213 - 252	253 - 292	293 - 332	333 - 372	373 - 412
No. of Fruits	5	2	6	6	1

(iii)

Weight (in gm)	213 - 252	253 - 292	293 - 332	333 - 372	373 - 412
No. of Fruits	5	6	2	6	1

(iv)

Weight (in gm)	213 - 252	253 - 292	293 - 332	333 - 372	373 - 412
No. of Fruits	5	2	3	6	1

(v)

Weight (in gm)	213 - 252	253 - 292	293 - 332	333 - 372	373 - 412
No. of Fruits	5	5	6	6	1

Assignment Key

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