EduSahara™ Assignment

Name : Random Samples Metrics

Chapter : Statistics

Grade : ICSE Grade VII

1. The scores obtained by 12 students in a test are given below. Find the range.
2 1 4 3 9 10 2 7 14 16 1 2

(i) $3\frac{1}{2}$ (ii) 1 (iii) 16 (iv) 15 (v) $5\frac{11}{12}$

2. The scores obtained by 11 students in a test are given below. Find the minimum score.
12 13 16 7 4 4 17 1 10 18 6

(i) 1 (ii) 18 (iii) 10 (iv) 17 (v) $9\frac{9}{11}$

3. The scores obtained by 12 students in a test are given below. Find the maximum score.
12 10 19 19 16 17 10 6 7 14 12 2

(i) 17 (ii) 19 (iii) 10 (iv) 2 (v) 12

4. The scores obtained by 12 students in a test are given below. Find the mean score.
7 8 16 16 3 19 20 18 18 20 6 14

(i) 3 (ii) 16 (iii) 17 (iv) $13\frac{3}{4}$ (v) 20

5. If the mean of 2 6 7 10 x 5 9 8 is 6 , find the value of x.

(i) 1 (ii) 0 (iii) 4 (iv) 2 (v) -2

6. Find the mean of all prime numbers between 50 and 60.

(i) 57 (ii) 55 (iii) 59 (iv) 56 (v) 54

7. Find the mean of first 9 multiples of 10.

(i) 51 (ii) 49 (iii) 48 (iv) 52 (v) 50

8. Find the mean of first 6 whole numbers.

(i) $\frac{7}{2}$ (ii) $\frac{3}{2}$ (iii) $\frac{5}{2}$ (iv) 3 (v) $\frac{9}{4}$

9. Find the mean of first 6 multiples of 14.

(i) 51 (ii) 48 (iii) 47 (iv) 50 (v) 49

10. Find the mean of the first 20 odd numbers.

(i) 19 (ii) 21 (iii) 17 (iv) 20 (v) 22

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

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

12. The marks obtained by 10 students in a test are given below. Find their mean marks.
7 49 13 2 20 24 26 17 12 29

(i) $\frac{161}{8}$ (ii) $\frac{199}{10}$ (iii) $\frac{201}{10}$ (iv) $\frac{79}{4}$ (v) $\frac{197}{10}$

13. The marks obtained by 11 students in a test are given below. Find the mean of their marks when the marks of each student is increased by 5.
13 11 29 48 25 48 10 2 27 39 47

(i) $\frac{354}{11}$ (ii) $\frac{290}{9}$ (iii) $\frac{356}{11}$ (iv) 32 (v) $\frac{418}{13}$

14. The marks obtained by 10 students in a test are given below. Find the mean of their marks when the marks of each student is decreased by 9.
26 49 36 48 5 4 37 10 44 8

(i) $\frac{211}{12}$ (ii) $\frac{177}{10}$ (iii) $\frac{35}{2}$ (iv) $\frac{179}{10}$ (v) $\frac{143}{8}$

15. The marks obtained by 11 students in a test are given below. Find the mean of their marks when the marks of each student is doubled.
29 35 20 21 10 46 15 31 47 3 32

(i) $\frac{578}{11}$ (ii) $\frac{158}{3}$ (iii) $\frac{682}{13}$ (iv) $\frac{576}{11}$ (v) $\frac{580}{11}$

16. Heights of 12 students (in cm) are given below. Find the mean height.
133 168 148 155 165 175 155 154 154 173 146 160

(i) $\frac{943}{6}$ cm (ii) $\frac{472}{3}$ cm (iii) $\frac{949}{6}$ cm (iv) $\frac{955}{6}$ cm (v) $\frac{315}{2}$ cm

17. Heights of 15 plants (in cm) are given below. Find the mean height.
74 52 83 75 89 75 74 77 65 93 100 100 73 68 73

(i) $\frac{391}{5}$ cm (ii) $\frac{1201}{15}$ cm (iii) $\frac{1172}{15}$ cm (iv) $\frac{1171}{15}$ cm (v) $\frac{1186}{15}$ cm

18. Ages of 13 students (in years) are given below. Find the mean age.
12 12 11 13 12 10 12 14 12 14 12 10 11

(i) $\frac{168}{13}$ years (ii) $\frac{155}{13}$ years (iii) $\frac{181}{13}$ years (iv) $\frac{157}{13}$ years (v) 12 years

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

(i) $\frac{47}{5}$ mm (ii) $\frac{44}{5}$ mm (iii) $\frac{42}{5}$ mm (iv) $\frac{52}{5}$ mm (v) $\frac{43}{5}$ mm

20. Scores of 13 students are given below. Find the mean score.
82 81 73 79 76 86 73 81 72 86 82 78 81

(i) $\frac{1030}{13}$ (ii) $\frac{1031}{13}$ (iii) $\frac{1056}{13}$ (iv) $\frac{1043}{13}$ (v) $\frac{1032}{13}$

21. Temperatures of 13 days (in °C) are given below. Find the mean temperature.
33 29 25 35 25 29 30 26 31 34 28 31 31

(i) $\frac{388}{13}$ °C (ii) $\frac{389}{13}$ °C (iii) $\frac{387}{13}$ °C (iv) $\frac{413}{13}$ °C (v) $\frac{400}{13}$ °C

22. Weights of 15 students (in kg) are given below. Find the mean weight.
43 52 60 50 52 57 43 54 54 51 40 59 55 58 45

(i) $\frac{803}{15}$ kg (ii) $\frac{155}{3}$ kg (iii) $\frac{258}{5}$ kg (iv) $\frac{773}{15}$ kg (v) $\frac{788}{15}$ kg

23. Daily wages of 11 labourers (in ₹) are given below. Find the mean wage.
363 343 453 454 500 303 359 323 419 431 474

(i) ₹404.00 (ii) ₹403.00 (iii) ₹402.00 (iv) ₹400.00 (v) ₹401.00

24. The mean of the below random sample is $27\frac{9}{10}$. Find the missing quantity.

34 45 12 20 46 32 x 11 46 14

(i) 20 (ii) 16 (iii) 22 (iv) 19 (v) 18

25. Given the mean of 7 samples as $13\frac{2}{7}$, what is the mean if a sample value is increased by 14 ?

(i) $\frac{107}{7}$ (ii) $\frac{137}{9}$ (iii) $\frac{109}{7}$ (iv) 15 (v) $\frac{77}{5}$

26. Given the mean of 8 samples as $12\frac{3}{8}$, what is the mean if a sample value is decreased by 20 ?

(i) $\frac{77}{8}$ (ii) $\frac{79}{8}$ (iii) $\frac{97}{10}$ (iv) $\frac{81}{8}$ (v) $\frac{61}{6}$

27. Given the mean of 10 samples as $3\frac{7}{10}$,
what is the new mean if two samples 3 and 4 are added ?

(i) 3 (ii) $\frac{17}{5}$ (iii) 5 (iv) $\frac{11}{3}$ (v) $\frac{13}{3}$

28. Given the mean of 12 samples as $7\frac{7}{12}$,
what is the new mean if two samples 5 and 10 are removed ?

(i) 8 (ii) $\frac{52}{7}$ (iii) $\frac{36}{5}$ (iv) $\frac{38}{5}$

29. Find the mean of all prime numbers between 50 and 70.

(i) 62 (ii) 61 (iii) 58 (iv) 59 (v) 60

30. Find the mean of all prime numbers between 20 and 100.

(i) $\frac{869}{15}$ (ii) $\frac{1097}{19}$ (iii) $\frac{981}{17}$ (iv) $\frac{983}{17}$ (v) $\frac{985}{17}$

31. Heights of 15 plants (in cm) are given below. Find the mean height.

50 80 92 60 76 77 94 72 64 53 79 78 83 81 90

(i) $\frac{1144}{15}$ cm (ii) $\frac{377}{5}$ cm (iii) $\frac{226}{3}$ cm (iv) $\frac{1129}{15}$ cm (v) $\frac{1159}{15}$ cm

Assignment Key

1) (iv)	2) (i)	3) (ii)	4) (iv)	5) (i)	6) (iv)
7) (v)	8) (iii)	9) (v)	10) (iv)	11) (iv)	12) (ii)
13) (i)	14) (ii)	15) (i)	16) (i)	17) (iv)	18) (ii)
19) (iii)	20) (i)	21) (iii)	22) (iv)	23) (iii)	24) (iv)
25) (i)	26) (ii)	27) (iv)	28) (iv)	29) (v)	30) (iv)
31) (iv)					