EduSahara™ Assignment

Name : Mean of Raw Data

Chapter : Statistics

Grade : ICSE Grade VIII

1. The scores obtained by 9 students in a test are given below. Find the mean score. 9 6 6 2 3 18 4 10 14

   (i) 18 (ii) 16 (iii) 8 (iv) 6 (v) 2

2. If the mean of 1 10 x 4 8 is 5 , find the value of x.

   (i) 2 (ii) 1 (iii) 5 (iv) 3 (v) -1

3. The mean of the below random sample is 30 . Find the missing quantity. 27 49 28 15 37 x 30 48 15 39

   (i) 12 (ii) 11 (iii) 14 (iv) 13 (v) 9

4. Given the mean of 11 samples as $10\frac{10}{11}$, what is the mean if a sample value is increased by 16 ?

   (i) $\frac{160}{13}$ (ii) $\frac{138}{11}$ (iii) $\frac{134}{11}$ (iv) $\frac{136}{11}$ (v) $\frac{112}{9}$

5. Given the mean of 8 samples as $6\frac{1}{8}$, what is the mean if a sample value is decreased by 14 ?

   (i) $\frac{35}{8}$ (ii) $\frac{9}{2}$ (iii) $\frac{43}{10}$ (iv) $\frac{37}{8}$ (v) $\frac{33}{8}$

6. Given the mean of 10 samples as $5\frac{2}{5}$,

   what is the new mean if two samples 4 and 4 are added ?

   (i) $\frac{41}{8}$ (ii) $\frac{11}{2}$ (iii) $\frac{31}{6}$ (iv) $\frac{21}{4}$ (v) $\frac{29}{6}$

7. Given the mean of 12 samples as $6\frac{1}{4}$,

   what is the new mean if two samples 10 and 7 are removed ?

   (i) $\frac{31}{5}$ (ii) $\frac{19}{3}$ (iii) $\frac{39}{7}$ (iv) $\frac{27}{5}$ (v) $\frac{29}{5}$

8. Find the mean of all prime numbers between 20 and 90.

   (i) $\frac{553}{10}$ (ii) $\frac{441}{8}$ (iii) $\frac{445}{8}$ (iv) $\frac{443}{8}$ (v) $\frac{111}{2}$

9. Find the mean of all prime numbers between 40 and 60.

   (i) $\frac{243}{5}$ (ii) $\frac{241}{5}$ (iii) $\frac{339}{7}$ (iv) 49

10. Find the mean of first 6 multiples of 7.

    (i) $\frac{47}{2}$ (ii) $\frac{49}{2}$ (iii) $\frac{51}{2}$ (iv) 25 (v) $\frac{97}{4}$

11. Find the mean of first 6 whole numbers.

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

12. Find the mean of first 10 multiples of 10.

(i) 55 (ii) 54 (iii) 56 (iv) 57 (v) 52

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

(i) 23 (ii) 21 (iii) 20 (iv) 19 (v) 17

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

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

15. The marks obtained by 10 students in a test are given below. Find their mean marks.
39 30 9 40 35 37 18 23 25 32

(i) $\frac{142}{5}$ (ii) $\frac{88}{3}$ (iii) $\frac{144}{5}$ (iv) $\frac{200}{7}$ (v) $\frac{146}{5}$

16. 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 increased by 1.
30 12 18 26 5 3 24 35 17 4

(i) $\frac{94}{5}$ (ii) 18 (iii) $\frac{56}{3}$ (iv) $\frac{128}{7}$ (v) $\frac{92}{5}$

17. 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 10.
36 42 14 50 2 25 40 41 49 21 49 17 7 49

(i) $\frac{151}{7}$ (ii) $\frac{193}{9}$ (iii) $\frac{153}{7}$ (iv) $\frac{149}{7}$ (v) $\frac{109}{5}$

18. The marks obtained by 15 students in a test are given below. Find the mean of their marks when the marks of each student is doubled.
39 17 13 5 1 20 7 23 17 40 47 23 8 34 37

(i) 44 (ii) $\frac{662}{15}$ (iii) $\frac{574}{13}$ (iv) $\frac{664}{15}$ (v) $\frac{750}{17}$

19. Heights of 14 students (in cm) are given below. Find the mean height.
132 161 137 164 163 160 130 152 171 166 167 141 132 138

(i) 149 cm (ii) 152 cm (iii) 151 cm (iv) 150 cm (v) 153 cm

20. Heights of 15 plants (in cm) are given below. Find the mean height.
59 54 71 76 65 98 53 87 57 78 54 83 51 100 87

(i) $\frac{1073}{15}$ cm (ii) $\frac{215}{3}$ cm (iii) $\frac{358}{5}$ cm (iv) $\frac{1103}{15}$ cm (v) $\frac{1088}{15}$ cm

21. Ages of 15 students (in years) are given below. Find the mean age.
14 10 10 14 14 10 14 11 12 12 13 10 12 12 14

(i) $\frac{212}{15}$ years (ii) $\frac{184}{15}$ years (iii) $\frac{197}{15}$ years (iv) $\frac{182}{15}$ years (v) $\frac{61}{5}$ years

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

(i) $\frac{79}{7}$ mm (ii) $\frac{86}{7}$ mm (iii) $\frac{72}{7}$ mm (iv) $\frac{73}{7}$ mm (v) $\frac{74}{7}$ mm

23. Scores of 13 students are given below. Find the mean score.
72 81 90 83 87 83 88 71 83 79 72 87 70

(i) $\frac{1047}{13}$ (ii) $\frac{1059}{13}$ (iii) $\frac{1048}{13}$ (iv) $\frac{1046}{13}$ (v) $\frac{1072}{13}$

24. Temperatures of 13 days (in °C) are given below. Find the mean temperature.
27 28 27 28 29 25 31 26 29 30 35 32 26

(i) $\frac{373}{13}$ °C (ii) $\frac{375}{13}$ °C (iii) $\frac{386}{13}$ °C (iv) $\frac{399}{13}$ °C (v) $\frac{374}{13}$ °C

25. Weights of 13 students (in kg) are given below. Find the mean weight.
42 47 45 46 49 53 54 55 55 40 53 49 55

(i) $\frac{669}{13}$ kg (ii) $\frac{644}{13}$ kg (iii) $\frac{645}{13}$ kg (iv) $\frac{643}{13}$ kg (v) $\frac{656}{13}$ kg

26. Daily wages of 11 labourers (in ₹) are given below. Find the mean wage.
328 315 417 352 380 370 357 457 407 490 339

(i) ₹383.91 (ii) ₹382.91 (iii) ₹384.91 (iv) ₹383.00 (v) ₹383.09

27. The arithmetic mean of 34 29 17 5 32 29 39 is

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

28. The arithmetic mean of a + 2, a, and a - 2 is

(i) 3a (ii) a (iii) a + 2 (iv) a - 2

29. If the mean of 6 samples is $13\frac{2}{3}$,
what is the new mean if 4 is added to each number.

(i) 19 (ii) $\frac{87}{5}$ (iii) $\frac{53}{3}$ (iv) $\frac{55}{3}$ (v) 17

30. If the mean of 6 samples is $26\frac{5}{6}$,
what is the new mean if 7 is subtracted from each number.

(i) $\frac{121}{6}$ (ii) $\frac{81}{4}$ (iii) $\frac{157}{8}$ (iv) $\frac{119}{6}$ (v) $\frac{39}{2}$

31. If the mean of 7 samples is $17\frac{6}{7}$,
what is the new mean if each number is multiplied by 7 .

(i) 128 (ii) 125 (iii) 123 (iv) 124 (v) 126

32. The mean of 9 numbers is $16\frac{2}{3}$. Upon excluding one number, the mean becomes $16\frac{1}{4}$. Find the excluded number.

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

33. The mean of 8 numbers is $11\frac{3}{8}$. Upon adding one number, the mean becomes $10\frac{7}{9}$. Find the included number.

(i) 4 (ii) 5 (iii) 8 (iv) 6 (v) 7

Assignment Key

1) (iii)	2) (i)	3) (i)	4) (iv)	5) (i)	6) (iii)
7) (v)	8) (iv)	9) (i)	10) (ii)	11) (iii)	12) (i)
13) (iii)	14) (ii)	15) (iii)	16) (v)	17) (i)	18) (ii)
19) (iii)	20) (i)	21) (iv)	22) (iii)	23) (iv)	24) (i)
25) (iv)	26) (ii)	27) (iv)	28) (ii)	29) (iii)	30) (iv)
31) (ii)	32) (iii)	33) (iv)			