EduSahara™ Assignment

Name : Arithmetic Mean

Chapter : Frequency Distribution Tables and Graphs

Grade : SSC Grade VIII

1. If the mean of 1 10 x 3 6 is $5\frac{3}{5}$, find the value of x.

   (i) 6 (ii) 10 (iii) 9 (iv) 8 (v) 7

2. The mean of the below random sample is $26\frac{3}{10}$. Find the missing quantity. x 23 46 47 17 28 14 26 15 37

   (i) 10 (ii) 11 (iii) 7 (iv) 12 (v) 9

3. Given the mean of 10 samples as $10\frac{1}{10}$, what is the mean if a sample value is increased by 16 ?

   (i) $\frac{139}{12}$ (ii) $\frac{23}{2}$ (iii) $\frac{95}{8}$ (iv) $\frac{119}{10}$ (v) $\frac{117}{10}$

4. Given the mean of 12 samples as $10\frac{5}{12}$, what is the mean if a sample value is decreased by 12 ?

   (i) $\frac{113}{12}$ (ii) $\frac{19}{2}$ (iii) $\frac{115}{12}$ (iv) $\frac{37}{4}$ (v) $\frac{131}{14}$

5. Given the mean of 10 samples as $4\frac{1}{5}$,
   what is the new mean if two samples 2 and 5 are added ?

   (i) $\frac{47}{12}$ (ii) $\frac{17}{4}$ (iii) $\frac{49}{12}$ (iv) $\frac{41}{10}$ (v) $\frac{57}{14}$

6. Given the mean of 12 samples as $5\frac{3}{4}$,
   what is the new mean if two samples 9 and 10 are removed ?

   (i) 6 (ii) 5 (iii) 3 (iv) 8 (v) 4

7. Find the mean of all prime numbers between 10 and 60.

   (i) $\frac{423}{13}$ (ii) $\frac{359}{11}$ (iii) $\frac{421}{13}$ (iv) $\frac{487}{15}$ (v) $\frac{425}{13}$

8. Find the mean of all prime numbers between 40 and 70.

   (i) 54 (ii) 52 (iii) 51 (iv) 56 (v) 53

9. Find the mean of first 5 multiples of 12.

   (i) 38 (ii) 33 (iii) 36 (iv) 35 (v) 37

10. Find the mean of first 9 whole numbers.

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

11. Find the mean of first 6 multiples of 17.

(i) 60 (ii) $\frac{119}{2}$ (iii) $\frac{117}{2}$ (iv) $\frac{237}{4}$ (v) $\frac{121}{2}$

12. Find the mean of the first 15 odd numbers.

(i) 14 (ii) 15 (iii) 12 (iv) 16 (v) 17

13. Find the mean of the first 10 even numbers.

(i) 9 (ii) 11 (iii) 12 (iv) 13 (v) 10

14. The marks obtained by 11 students in a test are given below. Find their mean marks.

20 33 5 36 45 48 44 4 37 25 29

(i) $\frac{268}{9}$ (ii) $\frac{326}{11}$ (iii) $\frac{324}{11}$ (iv) $\frac{384}{13}$ (v) $\frac{328}{11}$

15. 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 increased by 4.

22 14 24 1 46 33 24 48 45 10 38 15 30 37

(i) $\frac{127}{4}$ (ii) $\frac{63}{2}$ (iii) $\frac{505}{16}$ (iv) $\frac{443}{14}$ (v) $\frac{445}{14}$

16. 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 2.

27 20 39 26 28 41 22 37 30 33 47 7 29 18

(i) $\frac{136}{5}$ (ii) $\frac{190}{7}$ (iii) $\frac{80}{3}$ (iv) $\frac{188}{7}$ (v) $\frac{186}{7}$

17. 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.

41 7 39 9 6 21 34 13 33 23 8

(i) $\frac{470}{11}$ (ii) $\frac{552}{13}$ (iii) $\frac{466}{11}$ (iv) $\frac{468}{11}$ (v) $\frac{128}{3}$

18. Heights of 15 students (in cm) are given below. Find the mean height.

142 136 141 168 160 141 162 133 145 127 126 142 148 155 131

(i) $\frac{724}{5}$ cm (ii) 144 cm (iii) $\frac{719}{5}$ cm (iv) $\frac{721}{5}$ cm (v) $\frac{729}{5}$ cm

19. Heights of 14 plants (in cm) are given below. Find the mean height.

84 51 61 86 50 92 99 62 58 73 90 77 90 54

(i) $\frac{514}{7}$ cm (ii) $\frac{1055}{14}$ cm (iii) $\frac{1041}{14}$ cm (iv) $\frac{1027}{14}$ cm (v) $\frac{147}{2}$ cm

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

11 10 12 13 13 12 13 13 14 10 12 15 13 10

(i) $\frac{173}{14}$ years (ii) $\frac{185}{14}$ years (iii) $\frac{86}{7}$ years (iv) $\frac{199}{14}$ years (v) $\frac{171}{14}$ years

21. Rainfall of 14 days (in mm) are given below. Find the mean rainfall.
6 14 15 15 15 12 9 7 14 13 8 15 14 5

(i) $\frac{82}{7}$ mm (ii) $\frac{88}{7}$ mm (iii) $\frac{95}{7}$ mm (iv) $\frac{81}{7}$ mm (v) $\frac{83}{7}$ mm

22. Scores of 12 students are given below. Find the mean score.
79 78 87 86 87 82 79 73 74 71 81 76

(i) $\frac{977}{12}$ (ii) $\frac{953}{12}$ (iii) $\frac{955}{12}$ (iv) $\frac{965}{12}$ (v) $\frac{159}{2}$

23. Temperatures of 15 days (in °C) are given below. Find the mean temperature.
35 32 30 33 25 31 35 29 26 26 34 32 27 34 32

(i) $\frac{476}{15}$ °C (ii) $\frac{461}{15}$ °C (iii) $\frac{154}{5}$ °C (iv) $\frac{491}{15}$ °C (v) $\frac{463}{15}$ °C

24. Weights of 11 students (in kg) are given below. Find the mean weight.
48 54 56 60 45 60 46 42 52 54 43

(i) $\frac{560}{11}$ kg (ii) $\frac{582}{11}$ kg (iii) $\frac{571}{11}$ kg (iv) $\frac{562}{11}$ kg (v) 51 kg

25. Daily wages of 12 labourers (in ₹) are given below. Find the mean wage.
426 302 374 342 488 391 374 431 338 371 380 420

(i) ₹386.58 (ii) ₹386.42 (iii) ₹388.42 (iv) ₹386.50 (v) ₹387.42

26. If the mean of 8 samples is 16 ,
what is the new mean if 6 is added to each number.

(i) 21 (ii) 20 (iii) 23 (iv) 22 (v) 24

27. If the mean of 4 samples is $26\frac{1}{2}$,
what is the new mean if 5 is subtracted from each number.

(i) $\frac{45}{2}$ (ii) 22 (iii) $\frac{85}{4}$ (iv) $\frac{43}{2}$ (v) $\frac{41}{2}$

28. If the mean of 4 samples is $16\frac{3}{4}$,
what is the new mean if each number is multiplied by 3 .

(i) $\frac{301}{6}$ (ii) $\frac{101}{2}$ (iii) $\frac{203}{4}$ (iv) $\frac{199}{4}$ (v) $\frac{201}{4}$

29. The mean of 5 numbers is $12\frac{3}{5}$. Upon excluding one number, the mean becomes 11 . Find the excluded number.

(i) 20 (ii) 22 (iii) 19 (iv) 17 (v) 18

30. The mean of 5 numbers is 12 . Upon adding one number, the mean becomes 13 . Find the included number.

(i) 17 (ii) 20 (iii) 19 (iv) 16 (v) 18

31. The scores obtained by 6 students in a test are given below. Find the mean score. 7 5 20 10 19 1

(i) 19 (ii) $8\frac{1}{2}$ (iii) 20 (iv) 1 (v) $10\frac{1}{3}$

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

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

33. The arithmetic mean of 38 37 11 50 4 22 is

(i) 28 (ii) 26 (iii) 25 (iv) 29 (v) 27

Assignment Key

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