EduSahara™ Assignment

Name : Arithmetic Mean

Chapter : Frequency Distribution Tables and Graphs

Grade : SSC Grade VIII

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1. If the mean of 8 2 x 1 9 is 6 , find the value of x.

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

2. The mean of the below random sample is $33\frac{9}{10}$. Find the missing quantity. 42 16 x 49 13 42 42 40 33 29

   (i) 32 (ii) 33 (iii) 34 (iv) 36 (v) 30

3. Given the mean of 15 samples as $8\frac{3}{5}$, what is the mean if a sample value is increased by 14 ?

   (i) $\frac{161}{17}$ (ii) $\frac{29}{3}$ (iii) $\frac{143}{15}$ (iv) $\frac{47}{5}$ (v) $\frac{125}{13}$

4. Given the mean of 9 samples as $11\frac{5}{9}$, what is the mean if a sample value is decreased by 12 ?

   (i) $\frac{72}{7}$ (ii) $\frac{112}{11}$ (iii) $\frac{94}{9}$ (iv) $\frac{92}{9}$ (v) 10

5. Given the mean of 10 samples as $5\frac{1}{10}$,
   what is the new mean if two samples 6 and 10 are added ?

   (i) $\frac{65}{12}$ (ii) $\frac{23}{4}$ (iii) $\frac{11}{2}$ (iv) $\frac{67}{12}$ (v) $\frac{57}{10}$

6. Given the mean of 12 samples as $4\frac{5}{12}$,
   what is the new mean if two samples 2 and 5 are removed ?

   (i) $\frac{23}{5}$ (ii) 5 (iii) $\frac{21}{5}$ (iv) $\frac{31}{7}$

7. Find the mean of all prime numbers between 20 and 60.

   (i) 41 (ii) $\frac{119}{3}$ (iii) $\frac{121}{3}$ (iv) $\frac{201}{5}$

8. Find the mean of all prime numbers between 30 and 60.

   (i) $\frac{223}{5}$ (ii) $\frac{309}{7}$ (iii) $\frac{313}{7}$ (iv) $\frac{133}{3}$ (v) $\frac{311}{7}$

9. Find the mean of first 6 multiples of 5.

   (i) $\frac{33}{2}$ (ii) $\frac{69}{4}$ (iii) $\frac{35}{2}$ (iv) $\frac{37}{2}$ (v) 18

10. Find the mean of first 10 whole numbers.

(i) $\frac{7}{2}$ (ii) 5 (iii) $\frac{17}{4}$ (iv) $\frac{11}{2}$ (v) $\frac{9}{2}$

11. Find the mean of first 10 multiples of 8.

(i) 43 (ii) 47 (iii) 45 (iv) 41 (v) 44

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

(i) 12 (ii) 9 (iii) 8 (iv) 11 (v) 10

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

(i) 20 (ii) 22 (iii) 18 (iv) 21 (v) 23

14. The marks obtained by 15 students in a test are given below. Find their mean marks.

32 32 23 15 34 12 6 8 31 47 20 17 16 28 23

(i) $\frac{346}{15}$ (ii) $\frac{114}{5}$ (iii) $\frac{300}{13}$ (iv) $\frac{344}{15}$ (v) $\frac{388}{17}$

15. The marks obtained by 12 students in a test are given below. Find the mean of their marks when the marks of each student is increased by 2.

26 46 2 26 23 4 2 5 36 16 8 46

(i) 23 (ii) 22 (iii) 21 (iv) 19 (v) 24

16. The marks obtained by 13 students in a test are given below. Find the mean of their marks when the marks of each student is decreased by 7.

18 15 47 43 28 16 21 46 10 28 36 34 12

(i) $\frac{223}{11}$ (ii) $\frac{101}{5}$ (iii) $\frac{265}{13}$ (iv) $\frac{261}{13}$ (v) $\frac{263}{13}$

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 doubled.

50 27 11 5 21 28 43 33 13 19 22 41 15 12

(i) $\frac{338}{7}$ (ii) $\frac{342}{7}$ (iii) $\frac{436}{9}$ (iv) $\frac{244}{5}$ (v) $\frac{340}{7}$

18. Heights of 13 students (in cm) are given below. Find the mean height.

172 131 134 136 172 161 170 132 144 132 135 143 153

(i) $\frac{1915}{13}$ cm (ii) $\frac{1916}{13}$ cm (iii) $\frac{1928}{13}$ cm (iv) $\frac{1941}{13}$ cm (v) $\frac{1917}{13}$ cm

19. Heights of 10 plants (in cm) are given below. Find the mean height.

53 55 53 100 52 65 84 67 90 66

(i) $\frac{139}{2}$ cm (ii) $\frac{137}{2}$ cm (iii) $\frac{141}{2}$ cm (iv) 69 cm

20. Ages of 13 students (in years) are given below. Find the mean age.

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

(i) $\frac{179}{13}$ years (ii) $\frac{167}{13}$ years (iii) $\frac{192}{13}$ years (iv) $\frac{166}{13}$ years (v) $\frac{168}{13}$ years

21. Rainfall of 12 days (in mm) are given below. Find the mean rainfall.
6 11 7 15 12 11 9 13 15 14 6 8

(i) $\frac{139}{12}$ mm (ii) $\frac{127}{12}$ mm (iii) $\frac{151}{12}$ mm (iv) $\frac{43}{4}$ mm (v) $\frac{32}{3}$ mm

22. Scores of 15 students are given below. Find the mean score.
74 71 76 77 78 87 89 76 82 73 83 78 88 79 77

(i) $\frac{406}{5}$ (ii) $\frac{401}{5}$ (iii) $\frac{398}{5}$ (iv) $\frac{397}{5}$ (v) $\frac{396}{5}$

23. Temperatures of 15 days (in °C) are given below. Find the mean temperature.
32 33 30 25 25 34 29 27 28 35 33 31 26 34 32

(i) $\frac{484}{15}$ °C (ii) $\frac{91}{3}$ °C (iii) $\frac{469}{15}$ °C (iv) $\frac{454}{15}$ °C (v) $\frac{152}{5}$ °C

24. Weights of 12 students (in kg) are given below. Find the mean weight.
57 52 55 59 55 42 54 47 49 42 54 41

(i) $\frac{607}{12}$ kg (ii) $\frac{203}{4}$ kg (iii) $\frac{152}{3}$ kg (iv) $\frac{631}{12}$ kg (v) $\frac{619}{12}$ kg

25. Daily wages of 10 labourers (in ₹) are given below. Find the mean wage.
305 358 477 384 376 322 427 300 384 462

(i) ₹380.00 (ii) ₹381.50 (iii) ₹379.50 (iv) ₹380.50

26. If the mean of 5 samples is 41 ,
what is the new mean if 7 is added to each number.

(i) 49 (ii) 51 (iii) 48 (iv) 47 (v) 45

27. If the mean of 8 samples is $31\frac{1}{2}$,
what is the new mean if 5 is subtracted from each number.

(i) $\frac{55}{2}$ (ii) $\frac{51}{2}$ (iii) 27 (iv) $\frac{53}{2}$ (v) $\frac{105}{4}$

28. If the mean of 5 samples is $29\frac{4}{5}$,
what is the new mean if each number is multiplied by 4 .

(i) $\frac{834}{7}$ (ii) $\frac{594}{5}$ (iii) $\frac{598}{5}$ (iv) $\frac{358}{3}$ (v) $\frac{596}{5}$

29. The mean of 7 numbers is $13\frac{3}{7}$. Upon excluding one number, the mean becomes $13\frac{1}{6}$. Find the excluded number.

(i) 18 (ii) 16 (iii) 15 (iv) 14 (v) 13

30. The mean of 9 numbers is $8\frac{8}{9}$. Upon adding one number, the mean becomes $8\frac{4}{5}$. Find the included number.

(i) 5 (ii) 8 (iii) 10 (iv) 7 (v) 9

31. The scores obtained by 14 students in a test are given below. Find the mean score.
7 17 20 13 11 4 2 2 10 20 3 13 14 6

(i) 2 (ii) 20 (iii) $10\frac{1}{2}$ (iv) 18 (v) $10\frac{1}{7}$

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

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

33. The arithmetic mean of 6 26 16 10 7 5 15 14 is

(i) 12.38 (ii) 11.38 (iii) 10.38 (iv) 14.38 (v) 13.38

Assignment Key

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

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