



1. If the mean of 4 1 2 5 x 7 9 8 is $4\frac{7}{8}$, find the value of x.

- (i) 4 (ii) 2 (iii) 3 (iv) 1 (v) 6

2. The mean of the below random sample is $30\frac{3}{5}$. Find the missing quantity. 10 48 14 18 x 43 26 24 37 43

- (i) 42 (ii) 43 (iii) 45 (iv) 44 (v) 41

3. Given the mean of 11 samples as $12\frac{1}{11}$, what is the mean if a sample value is increased by 16 ?

- (i) $\frac{151}{11}$ (ii) $\frac{175}{13}$ (iii) $\frac{147}{11}$ (iv) $\frac{149}{11}$ (v) $\frac{41}{3}$

4. Given the mean of 14 samples as $10\frac{2}{7}$, what is the mean if a sample value is decreased by 12 ?

- (i) $\frac{48}{5}$ (ii) $\frac{66}{7}$ (iii) $\frac{64}{7}$ (iv) $\frac{28}{3}$ (v) $\frac{68}{7}$

5. Given the mean of 10 samples as 4, what is the new mean if two samples 5 and 9 are added ?

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

6. Given the mean of 12 samples as $3\frac{7}{12}$, what is the new mean if two samples 5 and 3 are removed ?

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

7. Find the mean of all prime numbers between 30 and 70.

- (i) $\frac{439}{9}$ (ii) $\frac{535}{11}$ (iii) 49 (iv) $\frac{437}{9}$

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

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

9. Find the mean of first 6 multiples of 15.

- (i) $\frac{103}{2}$ (ii) $\frac{105}{2}$ (iii) 53 (iv) $\frac{209}{4}$ (v) $\frac{107}{2}$

10. Find the mean of first 6 whole numbers.

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

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

- (i) $\frac{79}{2}$ (ii) $\frac{77}{2}$ (iii) 39 (iv) $\frac{75}{2}$ (v) $\frac{153}{4}$

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

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

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

- (i) 11 (ii) 13 (iii) 10 (iv) 8 (v) 12

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

25 4 42 16 13 37 6 16 21 46 4 36 34 8

- (i) 23 (ii) 25 (iii) 20 (iv) 21 (v) 22

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 increased by 3.

8 6 48 45 37 4 42 29 42 16 44

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

16. 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 decreased by 7.

50 38 22 30 6 5 21 17 36 9 4

- (i) $\frac{159}{11}$ (ii) $\frac{163}{11}$ (iii) $\frac{161}{11}$ (iv) $\frac{133}{9}$ (v) $\frac{189}{13}$

17. 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 doubled.

13 39 41 34 19 40 50 27 11 5

- (i) $\frac{389}{7}$ (ii) $\frac{169}{3}$ (iii) $\frac{277}{5}$ (iv) $\frac{281}{5}$ (v) $\frac{279}{5}$

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

145 148 147 161 174 158 141 155 137 157 150 174 174

- (i) $\frac{2022}{13}$ cm (ii) $\frac{2023}{13}$ cm (iii) $\frac{2034}{13}$ cm (iv) $\frac{2021}{13}$ cm (v) $\frac{2047}{13}$ cm

19. Heights of 13 plants (in cm) are given below. Find the mean height.

58 82 66 77 79 94 94 85 61 72 70 80 72

- (i) $\frac{990}{13}$ cm (ii) $\frac{1016}{13}$ cm (iii) $\frac{1003}{13}$ cm (iv) $\frac{991}{13}$ cm (v) $\frac{992}{13}$ cm

20. Ages of 12 students (in years) are given below. Find the mean age.
15 10 11 15 15 12 11 13 14 15 15 11
- (i) $\frac{169}{12}$ years (ii) $\frac{79}{6}$ years (iii) $\frac{157}{12}$ years (iv) $\frac{53}{4}$ years (v) $\frac{181}{12}$ years

21. Rainfall of 12 days (in mm) are given below. Find the mean rainfall.
13 7 7 13 12 15 11 12 15 5 5 13
- (i) 11 mm (ii) $\frac{35}{3}$ mm (iii) $\frac{34}{3}$ mm (iv) $\frac{32}{3}$ mm (v) $\frac{38}{3}$ mm

22. Scores of 10 students are given below. Find the mean score.
84 79 90 74 85 76 83 73 81 85
- (i) 82 (ii) 80 (iii) 81 (iv) 79 (v) 83

23. Temperatures of 13 days (in °C) are given below. Find the mean temperature.
27 27 26 29 29 33 29 27 34 30 25 35 28
- (i) $\frac{392}{13}$ °C (ii) $\frac{379}{13}$ °C (iii) $\frac{381}{13}$ °C (iv) $\frac{405}{13}$ °C (v) $\frac{380}{13}$ °C

24. Weights of 13 students (in kg) are given below. Find the mean weight.
56 52 55 40 42 59 52 53 41 41 54 45 40
- (i) $\frac{630}{13}$ kg (ii) $\frac{631}{13}$ kg (iii) $\frac{643}{13}$ kg (iv) $\frac{656}{13}$ kg (v) $\frac{632}{13}$ kg

25. Daily wages of 12 labourers (in ₹) are given below. Find the mean wage.
326 448 415 320 371 357 376 356 361 484 406 377
- (i) ₹383.25 (ii) ₹383.17 (iii) ₹384.08 (iv) ₹385.08 (v) ₹383.08

26. If the mean of 4 samples is $27\frac{1}{4}$,
what is the new mean if 4 is added to each number.
- (i) $\frac{63}{2}$ (ii) $\frac{123}{4}$ (iii) $\frac{187}{6}$ (iv) $\frac{125}{4}$ (v) $\frac{127}{4}$

27. If the mean of 4 samples is $31\frac{1}{4}$,
what is the new mean if 7 is subtracted from each number.
- (i) $\frac{95}{4}$ (ii) $\frac{49}{2}$ (iii) $\frac{99}{4}$ (iv) $\frac{145}{6}$ (v) $\frac{97}{4}$

28. If the mean of 6 samples is $32\frac{5}{6}$,
what is the new mean if each number is multiplied by 10.
- (i) $\frac{1641}{5}$ (ii) 329 (iii) $\frac{985}{3}$ (iv) $\frac{983}{3}$

29. The mean of 5 numbers is $6\frac{4}{5}$. Upon excluding one number, the mean becomes $8\frac{1}{4}$. Find the excluded number.
- (i) 2 (ii) 1 (iii) 0 (iv) 3 (v) -1

30. The mean of 5 numbers is $9\frac{4}{5}$. Upon adding one number, the mean becomes $9\frac{2}{3}$. Find the included number.

- (i) 9 (ii) 8 (iii) 7 (iv) 11 (v) 10

31. The scores obtained by 10 students in a test are given below. Find the mean score.

17 15 1 1 5 19 16 11 18 16

- (i) $11\frac{9}{10}$ (ii) 1 (iii) 19 (iv) 18 (v) $15\frac{1}{2}$

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 30 2 27 19 49 28 is

- (i) 26.83 (ii) 25.83 (iii) 27.83 (iv) 23.83 (v) 24.83

Assignment Key

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