



ECONOMICS

BOOKS - VK GLOBAL PUBLICATION ECONOMICS (HINGLISH)

MEASURES OF CENTRAL TENDENCY - ARITHMETIC MEAN

Illustration

1. Pocket allowance of 10 students is Rs. 15,20,30,22,25,18,40,50,55 and 65.

Find out the average pocket allowance.

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2. Following is the pocket allowance of 10 students. Find out arithmetic mean using Short-cut Method.

Pocket Allowance(Rs.) 15 20 30 22 25 18 40 50 55 65

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3. Following is the weekly wage earnings of 19 workers:

| | | | | | |
|-------------------|----|----|----|----|----|
| Wages(Rs.) | 10 | 20 | 30 | 40 | 50 |
| Number of Workers | 4 | 5 | 3 | 2 | 5 |

Calculate arithmetic mean using Direst Method,

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4. Following are the wages of 19 workers:

| | | | | | |
|-------------------|----|----|----|----|----|
| Wages(Rs.) | 10 | 20 | 30 | 40 | 50 |
| Number of Workers | 4 | 5 | 3 | 2 | 5 |

Calculate arithmetic mean, using Short-cut Method.

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5. Wage rate of 19 workers is given below:

| | | | | | |
|-------------------|----|----|----|----|----|
| Wages(Rs.) | 10 | 20 | 30 | 40 | 50 |
| Number of Workers | 4 | 5 | 3 | 2 | 5 |

Calculate arithmetic mean, using 'Step-deviation Method.

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6. The following table shows marks in English secured by students of Class X in your school in their examination. Calculate mean marks using Direct Method.

| | | | | | |
|--------------------|--------|---------|---------|---------|---------|
| Marks | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
| Number of Students | 20 | 24 | 40 | 36 | 20 |

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7. The following table shows marks secured by the students of a class in an examination in English:

| | | | | | |
|--------------------|--------|---------|---------|---------|---------|
| Marks | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
| Number of Students | 20 | 24 | 40 | 36 | 20 |

Calculte mean marks using Short-cut Method.

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8. The following table shows marks obtained by the students of a class in their test in English:

| | | | | | |
|--------------------|--------|---------|---------|---------|---------|
| Marks | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
| Number of Students | 20 | 24 | 40 | 36 | 20 |

Calculate arithmetic mean using Step-deviation method.

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9. Marks in Statistics of the students of Class XI are given below.

Find out arithmetic mean.

| | |
|--------------|--------------------|
| Marks | Number of Students |
| Less than 10 | 5 |
| Less than 20 | 17 |
| Less than 30 | 31 |
| Less than 40 | 41 |
| Less than 50 | 49 |

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10. The following table shows marks in economics of the students of a class. Calculate arithmetic mean.

| Marks | Number of Students |
|-------------|--------------------|
| More than 0 | 30 |
| More than 2 | 28 |
| More than 4 | 24 |
| More than 6 | 18 |
| More than 8 | 10 |



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11. Following table gives marks in Statistics of the students of a class.

Find out mean marks.

| | | | | | | | | |
|--------------------|---|----|----|----|----|----|----|----|
| Mid-value | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| Number of Students | 5 | 7 | 9 | 10 | 8 | 6 | 3 | 2 |



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12. The following table shows monthly pocket expenses of the students of a class. Find out average pocket expenses.

| | | | | | |
|----------------------|---------|---------|---------|---------|---------|
| Pocket Expenses(Rs.) | 20 – 29 | 30 – 39 | 40 – 49 | 50 – 59 | 60 – 69 |
| Number of Students | 10 | 8 | 6 | 4 | 2 |



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13. Mean marks obtained by 100 students are estimated to be 40. Later on its is found that one value was read as 83 instead of 53.

Find out the "corrected" mean.



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14. Suppose mean of a series of 5 items is 30. Four values are, 10,15,30 and 35 respectively. Find the missing (5th) value of the series.



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15. Calculate weighted mean of the following data:

| | | | | | | |
|-----------|----|----|----|----|----|----|
| Marks(X) | 81 | 76 | 74 | 58 | 70 | 73 |
| Weight(W) | 2 | 3 | 6 | 7 | 3 | 7 |



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16. 60 students of Section A of Class XI, obtained 40 mean marks in Statistics, 40 students of Section B obtained 35 mean marks in Statistics.

Find out mean marks in Statistics for Class XI as a whole.

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17. In the following frequency distribution, the frequency of the class interval (40-50) is not known. Find it, if the arithmetic mean of the distribution is 52.

| | | | | | | |
|------------------|---------|---------|---------|---------|---------|---------|
| Wages(Rs.) | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – 70 |
| Number of Workes | 5 | 3 | 4 | ? | 2 | 6 |

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18. If the arithmetic mean of the following series is 115.86, find the missing value.

| | | | | | | | | |
|-------------------|-----|-----|-----|-----|----|-----|-----|-----|
| Wages(Rs.) | 110 | 112 | 113 | 117 | ? | 125 | 128 | 130 |
| Number of Workers | 25 | 17 | 13 | 15 | 14 | 8 | 6 | 2 |

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19. Following are the marks obtained by 8 students in Statistics.

Calculate the arithmetic mean.

| | | | | | | | | |
|-------|----|----|----|----|----|----|----|----|
| Marks | 15 | 18 | 16 | 45 | 32 | 40 | 30 | 28 |
|-------|----|----|----|----|----|----|----|----|



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20. Following are the marks obtained by 25 students in economics.

Find out the mean marks by using Direct and Short-cut Method.

| | | | | | | |
|--------------------|----|----|----|----|----|----|
| Marks | 10 | 20 | 30 | 40 | 50 | 60 |
| Number of Students | 5 | 2 | 3 | 8 | 4 | 3 |



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21. Calculate mean salary by Step-deviation Method of the following data:

| Salary Group | Number of Employees |
|--------------|---------------------|
| 60-75 | 3 |
| 75-90 | 4 |
| 90-105 | 5 |
| 105-120 | 5 |
| 120-135 | 7 |
| 135-150 | 6 |

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22. Calculate mean from the following data:

| | | | | | | |
|--------------------|---------|---------|---------|---------|---------|---------|
| Marks | 10 – 20 | 10 – 30 | 10 – 40 | 10 – 50 | 10 – 60 | 10 – 70 |
| Number of Students | 4 | 16 | 56 | 97 | 124 | 133 |

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23. A train runs 25 miles at a speed of 30 mph, another 50 miles at a speed of 40 mph, then due to repairs of the track travels for 6 minutes at

a speed of 10 mph and finally covers the remaining distance of 24 miles at a speed of 24 mph. What is the average speed in miles per hour?



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24. If the average salary of a firm is Rs. 400 and the number of workers is 60, find the total salary bill of the firm.



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25. The mean of 5 observations is 7. Later on, it was found that two observations 4 and 8 were wrongly taken instead of 5 and 9. Find the corrected mean.



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26. The mean monthly salary paid to all employees in a certain company was Rs. 600. The mean monthly salaries paid to male and female

employees were Rs. 620 and Rs. 520 respectively. Find the percentage of male to female employees in the company.



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27. Find the missing information in the following table:

| | A | B | C | Combined |
|--------------------|-----|-----|-----|----------|
| Number (N) | 10 | 8 | — | 24 |
| Mean (\bar{X}) | 20 | — | 6 | 15 |



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28. In a class of 50 students 10 have failed and their average of marks is 2.5 . The total marks secured by the entire class were 281. Find the average marks those who have passed.



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29. Following are the marks of 37 students:

| | | | | | | |
|-----------------|---|---|---|----|----|----|
| Marks | 4 | 6 | 8 | 10 | 12 | 14 |
| No. of Students | 5 | 7 | 6 | 8 | 6 | 5 |

Calculate mean marks, using Short-cut Method.



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30. Find out the arithmetic mean by the Step-deviation Method of the following:

| | | | | | | | |
|----------------|--------|---------|---------|---------|---------|---------|---------|
| Class Interval | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – 70 |
| Frequency | 12 | 16 | 32 | 52 | 42 | 32 | 18 |



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31. Calculate the mean marks from the following data:

| | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|
| Marks | 20 – 25 | 25 – 30 | 30 – 35 | 35 – 40 | 40 – 45 | 45 – 50 |
| No. of Students | 10 | 12 | 8 | 20 | 11 | 4 |



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32. Find out the arithmetic mean from the following data:

| | | | | | | |
|--------------------|-------|----|----|----|----|----|
| Marks (less than) | 5 | 10 | 15 | 20 | 25 | 30 |
| Number of Students | 22310 | 23 | 30 | 54 | 69 | 80 |



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33. Calculate the weighted mean from the following data:

| | | | | | |
|--------|----|----|----|----|----|
| Marks | 60 | 75 | 63 | 59 | 55 |
| Weight | 2 | 1 | 5 | 5 | 3 |



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34. Mean of 100 observations is found to be 40. If at the time of computation two items are wrongly taken as 30 and 27 instead of 3 and 72, find the correct mean.



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35. The mean monthly salary paid to 77 employees in a company was Rs. 78. The mean salary of 32 of them was Rs. 45 and of the other 25 was Rs. 82. What was the mean salary of the remaining ?



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36. The average marks of 39 students of a class is 50. The marks obtained by 40th student are 39 more than the average marks of all the 40 students. Find the mean marks of all the 40 students.



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37. Pocket allowance of 10 students is Rs. 15,20,30,22,25,18,40,50,55 and 65. Find out the average pocket allowance.



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38. Following is the pocket allowance of 10 students. Find out arithmetic mean using Short-cut Method.

| | | | | | | | | | | |
|-----------------------|----|----|----|----|----|----|----|----|----|----|
| Pocket Allowance(Rs.) | 15 | 20 | 30 | 22 | 25 | 18 | 40 | 50 | 55 | 65 |
|-----------------------|----|----|----|----|----|----|----|----|----|----|



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39. Following is the weekly wage earnings of 19 workers:

| | | | | | |
|-------------------|----|----|----|----|----|
| Wages(Rs.) | 10 | 20 | 30 | 40 | 50 |
| Number of Workers | 4 | 5 | 3 | 2 | 5 |

Calculate arithmetic mean using Direct Method,



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40. Following are the wages of 19 workers:

| | | | | | |
|-------------------|----|----|----|----|----|
| Wages(Rs.) | 10 | 20 | 30 | 40 | 50 |
| Number of Workers | 4 | 5 | 3 | 2 | 5 |

Calculate arithmetic mean, using Short-cut Method.



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41. Wage rate of 19 workers is given below:

| | | | | | |
|-------------------|----|----|----|----|----|
| Wages(Rs.) | 10 | 20 | 30 | 40 | 50 |
| Number of Workers | 4 | 5 | 3 | 2 | 5 |

Calculate arithmetic mean, using 'Step-deviation Method'.



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42. The following table shows marks in English secured by students of Class X in your school in their examination. Calculate mean marks using Direct Method.

| | | | | | |
|--------------------|--------|---------|---------|---------|---------|
| Marks | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
| Number of Students | 20 | 24 | 40 | 36 | 20 |



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43. The following table shows marks secured by the students of a class in an examination in English:

| | | | | | |
|--------------------|--------|---------|---------|---------|---------|
| Marks | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
| Number of Students | 20 | 24 | 40 | 36 | 20 |

Calclute mean marks using Short-cut Method.



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44. The following table shows marks obtained by the students of a class in their test in English:

| Marks | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 |
|--------------------|--------|---------|---------|---------|---------|
| Number of Students | 20 | 24 | 40 | 36 | 20 |

Calculate arithmetic mean using Step-deviation method.

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45. Marks in Statistics of the students of Class XI are given below.

Find out arithmetic mean.

| Marks | Number of Students |
|--------------|--------------------|
| Less than 10 | 5 |
| Less than 20 | 17 |
| Less than 30 | 31 |
| Less than 40 | 41 |
| Less than 50 | 49 |

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46. The following table shows marks in economics of the students of a class. Calculate arithmetic mean.

| Marks | Number of Students |
|-------------|--------------------|
| More than 0 | 30 |
| More than 2 | 28 |
| More than 4 | 24 |
| More than 6 | 18 |
| More than 8 | 10 |

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47. Following table gives marks in Statistics of the students of a class.

Find out mean marks.

| | | | | | | | | |
|--------------------|---|----|----|----|----|----|----|----|
| Mid-value | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| Number of Students | 5 | 7 | 9 | 10 | 8 | 6 | 3 | 2 |

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48. The following table shows monthly pocket expenses of the students of a class. Find out average pocket expenses.

| | | | | | |
|----------------------|---------|---------|---------|---------|---------|
| Pocket Expenses(Rs.) | 20 – 29 | 30 – 39 | 40 – 49 | 50 – 59 | 60 – 69 |
| Number of Students | 10 | 8 | 6 | 4 | 2 |

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49. Mean marks obtained by 100 students are estimated to be 40. Later on it is found that one value was read as 83 instead of 53.

Find out the "corrected" mean.

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50. Suppose mean of a series of 5 items is 30. Four values are, 10, 15, 30 and 35 respectively. Find the missing (5th) value of the series.

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51. Calculate weighted mean of the following data:

| | | | | | | |
|-----------|----|----|----|----|----|----|
| Marks(X) | 81 | 76 | 74 | 58 | 70 | 73 |
| Weight(W) | 2 | 3 | 6 | 7 | 3 | 7 |

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52. 60 students of Section A of Class XI, obtained 40 mean marks in Statistics, 40 students of Section B obtained 35 mean marks in Statistics. Find out mean marks in Statistics for Class XI as a whole.

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53. In the following frequency distribution, the frequency of the class interval (40-50) is not known. Find it, if the arithmetic mean of the distribution is 52.

| | | | | | | |
|------------------|---------|---------|---------|---------|---------|---------|
| Wages(Rs.) | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – 70 |
| Number of Workes | 5 | 3 | 4 | ? | 2 | 6 |

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54. If the arithmetic mean of the following series is 115.86, find the missing value.

| | | | | | | | | |
|-------------------|-----|-----|-----|-----|----|-----|-----|-----|
| Wages(Rs.) | 110 | 112 | 113 | 117 | ? | 125 | 128 | 130 |
| Number of Workers | 25 | 17 | 13 | 15 | 14 | 8 | 6 | 2 |

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55. Following are the marks obtained by 8 students in Statistics.

Calculate the arithmetic mean.

| | | | | | | | | |
|-------|----|----|----|----|----|----|----|----|
| Marks | 15 | 18 | 16 | 45 | 32 | 40 | 30 | 28 |
|-------|----|----|----|----|----|----|----|----|



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56. Following are the marks obtained by 25 students in economics.

Find out the mean marks by using Direct and Short-cut Method.

| | | | | | | |
|--------------------|----|----|----|----|----|----|
| Marks | 10 | 20 | 30 | 40 | 50 | 60 |
| Number of Students | 5 | 2 | 3 | 8 | 4 | 3 |



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57. Calculate mean salary by Step-deviation Method of the following data:

| Salary Group | Number of Employees |
|--------------|---------------------|
| 60-75 | 3 |
| 75-90 | 4 |
| 90-105 | 5 |
| 105-120 | 5 |
| 120-135 | 7 |
| 135-150 | 6 |

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58. Calculate mean from the following data:

| | | | | | | |
|--------------------|---------|---------|---------|---------|---------|---------|
| Marks | 10 – 20 | 10 – 30 | 10 – 40 | 10 – 50 | 10 – 60 | 10 – 70 |
| Number of Students | 4 | 16 | 56 | 97 | 124 | 133 |

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59. A train runs 25 miles at a speed of 30 mph, another 50 miles at a speed of 40 mph, then due to repairs of the track travels for 6 minutes at

a speed of 10 mph and finally covers the remaining distance of 24 miles at a speed of 24 mph. What is the average speed in miles per hour?



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60. If the average salary of a firm is Rs. 400 and the number of workers is 60, find the total salary bill of the firm.



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61. The mean of 5 observations is 7. Later on, it was found that two observations 4 and 8 were wrongly taken instead of 5 and 9. Find the corrected mean.



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62. The mean monthly salary paid to all employees in a certain company was Rs. 600. The mean monthly salaries paid to male and female

employees were Rs. 620 and Rs. 520 respectively. Find the percentage of male to female employees in the company.



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63. Find the missing information in the following table:

| | A | B | C | Combined |
|--------------------|-----|-----|-----|----------|
| Number (N) | 10 | 8 | — | 24 |
| Mean (\bar{X}) | 20 | — | 6 | 15 |



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64. In a class of 50 students 10 have failed and their average of marks is 2.5 . The total marks secured by the entire class were 281. Find the average marks those who have passed.



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65. Following are the marks of 37 students:

| | | | | | | |
|-----------------|---|---|---|----|----|----|
| Marks | 4 | 6 | 8 | 10 | 12 | 14 |
| No. of Students | 5 | 7 | 6 | 8 | 6 | 5 |

Calculate mean marks, using Short-cut Method.



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66. Find out the arithmetic mean by the Step-deviation Method of the following:

| | | | | | | | |
|----------------|--------|---------|---------|---------|---------|---------|---------|
| Class Interval | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – 70 |
| Frequency | 12 | 16 | 32 | 52 | 42 | 32 | 18 |



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67. Calculate the mean marks from the following data:

| | | | | | | |
|-----------------|---------|---------|---------|---------|---------|---------|
| Marks | 20 – 25 | 25 – 30 | 30 – 35 | 35 – 40 | 40 – 45 | 45 – 50 |
| No. of Students | 10 | 12 | 8 | 20 | 11 | 4 |



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68. Find out the arithmetic mean from the following data:

| | | | | | | |
|--------------------|-------|----|----|----|----|----|
| Marks (less than) | 5 | 10 | 15 | 20 | 25 | 30 |
| Number of Students | 22310 | 23 | 30 | 54 | 69 | 80 |



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69. Calculate the weighted mean from the following data:

| | | | | | |
|--------|----|----|----|----|----|
| Marks | 60 | 75 | 63 | 59 | 55 |
| Weight | 2 | 1 | 5 | 5 | 3 |



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70. Mean of 100 observations is found to be 40. If at the time of computation two items are wrongly taken as 30 and 27 instead of 3 and 72, find the correct mean.



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71. The mean monthly salary paid to 77 employees in a company was Rs.
78. The mean salary of 32 of them was Rs. 45 and of the other 25 was Rs.
82. What was the mean salary of the remaining ?



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72. The average marks of 39 students of a class is 50. The marks obtained by 40th student are 39 more than the average marks of all the 40 students. Find the mean marks of all the 40 students.



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Exercise A Mcqs

1. Which of the following is a type of mathematical average?

A. Median

B. Partition value

C. Mode

D. None of these

Answer: D



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2. Formula for finding arithmetic mean is:

A. $\bar{X} = \sum X$

B. $\bar{X} = \frac{\sum X}{N}$

C. $\bar{X} = \sum X - N$

D. $\bar{X} = \frac{N}{\sum X}$

Answer: B



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3. Arithmetic mean of these items 5,7,9,15,20 is:

- A. 10
- B. 10.2
- C. 11.2
- D. 12

Answer: C



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4. Arithmetic mean of these items : 10 , 15, X, 20, 30, is 20. Find out the missing item.

- A. 10
- B. 15
- C. 5
- D. 12

Answer: D



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5. By which formula is combined arithmetic mean estimated?

A. $\bar{X}_{12} = \frac{X_1 + X_2 + \dots + X_n}{N_1 + N_2}$

B. $\bar{X}_{12} = \frac{\bar{X}_1 N_1 + \bar{X}_2 N_2}{N_1 + N_2}$

C. $\bar{X}_{12} = \frac{\bar{X}_1 + \bar{X}_2}{N_1 + N_2}$

D. None of these

Answer: B



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6. Arithmetic mean of a series is 15 and if 5 is added in all the items of this series, the new arithmetic mean will be:

A. 5

B. 20

C. 18

D. 10

Answer: B



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7. What is the formula to find out arithmetic mean through Short-cut Method in individual series?

A. $\bar{X} = \frac{\sum X}{N}$

B. $\bar{X} = A + \frac{\sum d}{N}$

C. $\bar{X} = \frac{\sum X}{N} + A$

D. $\bar{X} = \frac{\sum fX}{\sum f}$

Answer: B

8. Which of the following is not a measure of central tendency?

- A. Mean
- B. Mode
- C. Standard deviation
- D. Median

Answer: C

9. Which is not a method to find arithmetic mean?

- A. Direct method
- B. Short-cut method
- C. Step-deviation method

D. Karl Pearson's method

Answer: D



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10. Assumed mean is taken in which method?

A. Direct method

B. Step-deviation method

C. Karl Pearson's method

D. Spearman's method

Answer: B



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11. Sum of deviations of different values from arithmetic mean is always equal to:

- A. zero
- B. one
- C. less than one
- D. more than one

Answer: A



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12. Which of the following is a type of mathematical average?

- A. Median
- B. Partition value
- C. Mode
- D. None of these

Answer: D



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13. Formula for finding arithmetic mean is:

A. $\bar{X} = \sum X$

B. $\bar{X} = \frac{\sum X}{N}$

C. $\bar{X} = \sum X - N$

D. $\bar{X} = \frac{N}{\sum X}$

Answer: B



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14. Arithmetic mean of these items 5,7,9,15,20 is:

A. 10

B. 10.2

C. 11.2

D. 12

Answer: C



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15. Arithmetic mean of these items : 10 , 15, X, 20, 30, is 20. Find out the missing item.

A. 10

B. 15

C. 5

D. 12

Answer: D



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16. By which formula is combined arithmetic mean estimated?

A. $\bar{X}_{12} = \frac{X_1 + X_2 + \dots + X_n}{N_1 + N_2}$

B. $\bar{X}_{12} = \frac{\bar{X}_1 N_1 + \bar{X}_2 N_2}{N_1 + N_2}$

C. $\bar{X}_{12} = \frac{\bar{X}_1 + \bar{X}_2}{N_1 + N_2}$

D. None of these

Answer: B



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17. Arithmetic mean of a series is 15 and if 5 is added in all the items of this series, the new arithmetic mean will be:

A. 5

B. 20

C. 18

D. 10

Answer: B



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18. What is the formula to find out arithmetic mean through Short-cut Method in individual series?

A. $\bar{X} = \frac{\sum X}{N}$

B. $\bar{X} = A + \frac{\sum d}{N}$

C. $\bar{X} = \frac{\sum X}{N} + A$

D. $\bar{X} = \frac{\sum fX}{\sum f}$

Answer: B



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19. Which of the following is not a measure of central tendency?

- A. Mean
- B. Mode
- C. Standard deviation
- D. Median

Answer: C



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20. Which is not a method to find arithmetic mean?

- A. Direct method
- B. Short-cut method
- C. Step-deviation method
- D. Karl Pearson's method

Answer: D



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21. Assumed mean is taken in which method?

- A. Direct method
- B. Step-deviation method
- C. Karl Pearson's method
- D. Spearman's method

Answer: B



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22. Sum of deviations of different values from arithmetic mean is always equal to:

A. zero

B. one

C. less than one

D. more than one

Answer: A



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Exercise B Choose Appropriate Word And Fill In The Blank

1. In _____ arithmetic mean, all items of a series are given equal importance. (Simple/Weighted)



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2. _____ mean is the simplest measure of central tendencies. (Arithmetic/Geometric)



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3. _____ method is adopted when deviations from the assumed mean have some common factor. (Short-cut/Step-deviation)



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4. If each item of a series is increased by some constant, then the mean also _____ by same constant. (increases/decreases)



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5. The sum of squared deviations of the items from arithmetic mean is _____. (minimum/maximum)



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6. Arithmetic mean makes comparison _____. (easy/difficult)



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7. Arithmetic mean is not a suitable measure in case of _____ values.
(absolute/percentage)



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8. In _____ arithmetic mean, all items of a series are given equal importance. (Simple/Weighted)



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9. _____ mean is the simplest measure of central tendencies.
(Arithmetic/Geometric)



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10. _____ method is adopted when deviations from the assumed mean have some common factor. (Short-cut/Step-deviation)



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11. If each item of a series is increased by some constant, then the mean also _____ by same constant. (increases/decreases)



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12. The sum of squared deviations of the items from arithmetic mean is _____. (minimum/maximum)



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13. Arithmetic mean makes comparison _____. (easy/difficult)



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14. Arithmetic mean is not a suitable measure in case of _____ values.

(absolute/percentage)



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Exercise C State Whether The Following Statements Are True Or False

1. Central tendency refers to a central value of a statistical series.



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2. Averages help in the formulation of economic policies.



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3. The mean of weighted items is called weighted average.

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4. If a given number is subtracted from all the items in a series, then the arithmetic mean of that series will increase by the same specific value.

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5. Arithmetic mean is shown by the following formula:

$$\bar{X} = \frac{X_1 + X_2 + \dots + X_n}{N} = \frac{\sum X}{N}$$

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6. Central tendency refers to a central value of a statistical series.

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7. Averages help in the formulation of economic policies.



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8. The mean of weighted items is called weighted average.



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Exercise D Concept Based Objective Questions

1. What do you mean by average value?



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2. Define arithmetic mean.



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3. Define weighted arithmetic mean.

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4. What are the types of arithmetic mean?

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5. Name any two mathematical averages.

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6. Give formula of calculating arithmetic mean of a continuous series using direct method.

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7. Give formula of weighted average.

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8. State one notable property of arithmetic mean.



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9. What do you mean by average value?



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10. Define Arithmetic mean.



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11. Define weighted arithmetic mean.



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12. What are the types of arithmetic mean?



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13. Name any two mathematical averages.



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14. Give formula of calculating arithmetic mean of a continuous series using direct method.



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15. Give formula of weighted average.



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16. State one notable property of arithmetic mean.



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2 Short Answer Type Questions

1. Define and explain arithmetic mean.



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2. Define and explain weighted arithmetic mean.



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3. Show that the sum of deviations of the values of the variable from their arithmetic mean is equal to zero.



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4. Give the four objective of statistical average.



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5. State four merits of an ideal measure of central tendency.



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6. State four merits of arithmetic mean.



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7. State four demerits of arithmetic mean.



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8. What do you mean by statistical or central tendency of a series? State its functions.



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9. Explain the kinds of statistical averages.



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10. Define and explain arithmetic mean.



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11. Define and explain weighted ariththed arithmetic mean.



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12. Discuss the various properties of arithmetic mean.



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13. The arithmetic mean is described as the central of gravity of the distribution of values of the variable . Explain.



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14. Show that the sum of deviations of the values of the variable from their arithmetic mean is equal to zero.



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15. Give the four objective of statistical average.



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16. State four merits of an ideal measure of central tendency.



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17. State four merits of arithmetic mean.



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18. State four demerits of arithmetic mean.



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3 Long Answer Type Questions

1. What is statistical average? What desirable properties should an average possess?



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2. Discuss the various methods of measuring arithmetic mean and point out its merits and demerits.



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3. Why is the arithmetic mean the most commonly used measure of central tendency?



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4. Explain the step-deviation method of calculating arithmetic mean, taking an imaginary set of data.



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5. Discuss the various methods of measuring arithmetic mean and point out its merits and demerits.



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6. Why is the arithmetic mean the most commonly used measure of central tendency?



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4 Essential Practicals

1. Eight workers earn the following income:

30, 36, 34, 40, 42, 46, 54, 62

Find out arithmetic mean.



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2. Pocket allowance of 5 students respectively are:

125, 75, 150, 175, 200

Find out arithmetic mean.

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3. Following is the height of 10 students:

| | | | | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Students | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> | <i>G</i> | <i>H</i> | <i>I</i> | <i>J</i> |
| Height(cm) | 155 | 153 | 168 | 160 | 162 | 166 | 164 | 180 | 157 | 165 |

Calculate arithmetic mean using Direct and Short-cut Methods.

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4. Weight of 15 persons is as follows:

| | | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Weight(kg) | 20 | 28 | 34 | 39 | 42 | 50 | 53 | 54 | 59 | 64 | 72 | 74 | 74 | 78 | 79 |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

Find out mean weight, using Direct Method as well as Short-cut Method.

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5. Calculate average of the following discrete series. Use Short-cut Method by taking 25 as assumed average.

| | | | | | | | | | | |
|---------------|----|----|----|----|----|----|----|----|----|----|
| Size | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 |
| Frequency (f) | 2 | 4 | 5 | 3 | 2 | 7 | 1 | 4 | 5 | 7 |



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6. Marks secured by 42 students in economics are:

| | | | | | | | |
|--------------------|----|----|----|----|----|----|----|
| Marks | 15 | 20 | 22 | 23 | 27 | 35 | 18 |
| Number of Students | 8 | 4 | 7 | 3 | 8 | 7 | 5 |

Find average marks.



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7. Average age of the people of a country is shown in the following table:

| | | | | | |
|---------------|---------|---------|---------|---------|---------|
| Age (Years) | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 |
| People ('000) | 30 | 32 | 15 | 12 | 9 |

Find out mean age by Direct Method.



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8. Calculate the arithmetic mean of the following frequency distribution by Direct Method:

| | | | | | |
|----------------|---------|---------|---------|----------|-----------|
| Class Interval | 10 – 20 | 20 – 40 | 40 – 70 | 70 – 120 | 120 – 200 |
| Frequency | 4 | 10 | 26 | 8 | 2 |



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9. Calculate arithmetic mean from the following data by Short-cut

Method:

| | | | | | | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Class Interval | 20 – 25 | 25 – 30 | 30 – 35 | 35 – 40 | 40 – 45 | 45 – 50 | 50 – 55 |
| Frequency | 10 | 12 | 8 | 20 | 11 | 4 | 2 |



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10. Find out arithmetic mean from the following distribution by Short-cut

| | | | | | | |
|---------|-----------|--------|-------|-------|-------|-------|
| Method: | Items | 10 – 8 | 8 – 6 | 6 – 4 | 4 – 2 | 2 – 0 |
| | Frequency | 10 | 8 | 6 | 4 | 2 |



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11. Sachin made the following runs in different matches:

| | | | | | |
|-----------|--------|---------|---------|---------|---------|
| Runs | 5 – 15 | 15 – 25 | 25 – 35 | 35 – 45 | 45 – 55 |
| Frequency | 10 | 12 | 17 | 19 | 22 |

Calculate the average mean of the runs by Step-deviation Method.

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12. Calculate arithmetic mean of the following frequency distribution:

| | | | | | | | |
|-----------|--------------|---------|---------|---------|---------|---------|---------|
| Class | less than 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – 70 |
| Frequency | 5 | 12 | 18 | 22 | 6 | 4 | 1 |

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13. Mean marks obtained by a student in his five subjects are 15. In English he secures 8 marks, in Economics 12, in Mathematics 18, and in Commerce 9. Find out the marks he secured in Statistics.

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14. Mean value of the weekly income of 40 families is 265. But in the calculation, income of one family was read as 150 instead of 115. Find the "Corrected" mean.

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15. Average pocket allowance of 6 students is Rs. 45. Of these, pocket allowance of 5 students is 20, 30, 22, 24 and 32 respectively. What is the pocket allowance of the sixth student?

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16. The following table shows wages of the workers. Calculate the average wage of the workers.

| | | | | | |
|-------------------|---------|---------|---------|---------|---------|
| Wages(Rs.) | 10 – 19 | 20 – 29 | 30 – 39 | 40 – 49 | 50 – 59 |
| Number of Workers | 8 | 9 | 12 | 11 | 6 |

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17. Ten players of the Australian team made an average an average of 63 runs and ten players of the Indian team made an average of 77 runs. Calculate the average run made by both the teams.

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18. Average income of 50 families is Rs. 3,000. Of these average income of 12 families is Rs. 1,800. Find out the average income of the remaining families.



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19. In the following frequency distribution, if the arithmetic mean is 45.6, find out missing frequency.

| | | | | | | |
|-------------------|---------|---------|---------|---------|---------|------|
| Wages(Rs.) | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – |
| Number of Workers | 5 | 6 | 7 | X | 4 | 3 |



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20. Calculate the weighted mean of the following data:

| | | | | | | |
|--------|----|-----|-----|-----|-----|-----|
| Items | 96 | 102 | 104 | 124 | 148 | 164 |
| Weight | 5 | 6 | 3 | 7 | 12 | 9 |



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21. A student obtained 60 marks in English, 75 in Hindi, 63 in Mathematics, 59 in Economics and 55 in Statistics. Calculate weighted mean of the marks if weights are respectively 2, 1, 5, 5 and 3.



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22. A housewife uses 10 kg of Wheat, 20 kg of Fuel, 5 kg of Sugar, and 2 kg of oil. Prices (per kg) of these items are Rs. 1.50, 50 paise, Rs. 2.80 and Rs. 10 respectively. Taking quantities used as weights find out the weighted arithmetic average of the prices.



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23. Calculate weighted mean of the following data by using Direct and Short-cut Methods:

| | | | | | | |
|--------|----|----|----|----|----|----|
| Items | 81 | 76 | 74 | 58 | 70 | 73 |
| Weight | 2 | 3 | 6 | 7 | 3 | 7 |



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24. Eight workers earn the following income:

30, 36, 34, 40, 42, 46, 54, 62

Find out arithmetic mean.



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25. Pocket allowance of 5 students respectively are:

125, 75, 150, 175, 200

Find out arithmetic mean.



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26. Following is the height of 10 students:

| | | | | | | | | | | |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Students | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> | <i>G</i> | <i>H</i> | <i>I</i> | <i>J</i> |
| Height(cm) | 155 | 153 | 168 | 160 | 162 | 166 | 164 | 180 | 157 | 165 |

Calculate arithmetic mean using Direct and Short-cut Methods.



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27. Weight of 15 persons is as follows:

Weight(kg) 20 28 34 39 42 50 53 54 59 64 72 74 74 78 79

Find out mean weight, using Direct Method as well as Short-cut Method.

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28. Calculate average of the following discrete series. Use Short-cut Method by taking 25 as assumed average.

| | | | | | | | | | | |
|---------------|----|----|----|----|----|----|----|----|----|----|
| Size | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 |
| Frequency (f) | 2 | 4 | 5 | 3 | 2 | 7 | 1 | 4 | 5 | 7 |

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29. Marks secured by 42 students in economics are:

| | | | | | | | |
|--------------------|----|----|----|----|----|----|----|
| Marks | 15 | 20 | 22 | 23 | 27 | 35 | 18 |
| Number of Students | 8 | 4 | 7 | 3 | 8 | 7 | 5 |

Find average marks.

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30. Average age of the people of a country is shown in the following table:

| | | | | | |
|---------------|---------|---------|---------|---------|---------|
| Age (Years) | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 |
| People ('000) | 30 | 32 | 15 | 12 | 9 |

Find out mean age by Direct Method.

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31. Calculate the arithmetic mean of the following frequency distribution

by Direct Method:

| | | | | | |
|----------------|---------|---------|---------|----------|-----------|
| Class Interval | 10 – 20 | 20 – 40 | 40 – 70 | 70 – 120 | 120 – 200 |
| Frequency | 4 | 10 | 26 | 8 | 2 |

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32. Calculate arithmetic mean from the following data by Short-cut

Method:

| | | | | | | | |
|----------------|---------|---------|---------|---------|---------|---------|---------|
| Class Interval | 20 – 25 | 25 – 30 | 30 – 35 | 35 – 40 | 40 – 45 | 45 – 50 | 50 – 55 |
| Frequency | 10 | 12 | 8 | 20 | 11 | 4 | 2 |

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33. Find out arithmetic mean from the following distribution by Short-cut

Method:

| | | | | | |
|-----------|--------|-------|-------|-------|-------|
| Items | 10 – 8 | 8 – 6 | 6 – 4 | 4 – 2 | 2 – 0 |
| Frequency | 10 | 8 | 6 | 4 | 2 |

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34. Sachin made the following runs in different matches:

| | | | | | |
|-----------|--------|---------|---------|---------|---------|
| Runs | 5 – 15 | 15 – 25 | 25 – 35 | 35 – 45 | 45 – 55 |
| Frequency | 10 | 12 | 17 | 19 | 22 |

Calculate the average mean of the runs by Step-deviation Method.

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35. Calculate arithmetic mean of the following frequency distribution:

| | | | | | | |
|-----------|--------------|---------|---------|---------|---------|---------|
| Class | less than 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 |
| Frequency | 5 | 12 | 18 | 22 | 6 | 4 |

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36. Mean marks obtained by a student in his five subjects are 15. In English he secures 8 marks, in Economics 12, in Mathematics 18, and in Commerce 9. Find out the marks he secured in Statistics.



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37. Mean value of the weekly income of 40 families is 265. But in the calculation, income of one family was read as 150 instead of 115. Find the "Corrected" mean.



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38. Average pocket allowance of 6 students is Rs. 45. Of these, pocket allowance of 5 students is 20, 30, 22, 24 and 32 respectively. What is the pocket allowance of the sixth student?



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39. The following table shows wages of the workers. Calculate the average wage of the workers.

| | | | | | |
|-------------------|---------|---------|---------|---------|---------|
| Wages(Rs.) | 10 – 19 | 20 – 29 | 30 – 39 | 40 – 49 | 50 – 59 |
| Number of Workers | 8 | 9 | 12 | 11 | 6 |

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40. Ten players of the Australian team made an average an average of 60 runs and ten players of the Indian team made an average of 70 runs. Calculate the average run made by both the teams.

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41. Average income of 50 families is Rs. 3,000. Of these average income of 12 families is Rs. 1,800. Find out the average income of the remaining families.

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42. In the following frequency distribution, if the arithmetic mean is 45.6, find out missing frequency.

| | | | | | | |
|-------------------|---------|---------|---------|---------|---------|------|
| Wages(Rs.) | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – |
| Number of Workers | 5 | 6 | 7 | X | 4 | 3 |



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43. Calculate the weighted mean of the following data:

| | | | | | | |
|--------|----|-----|-----|-----|-----|-----|
| Items | 96 | 102 | 104 | 124 | 148 | 164 |
| Weight | 5 | 6 | 3 | 7 | 12 | 9 |



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44. A student obtained 60 marks in English, 75 in Hindi, 63 in Mathematics, 59 in Economics and 55 in Statistics. Calculate weighted mean of the marks if weights are respectively 2, 1, 5, 5 and 3.



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45. A housewife uses 10 kg of Wheat, 20 kg of Fuel, 5 kg of Sugar, and 2 kg of oil. Prices (per kg) of these items are Rs. 1.50, 50 paise, Rs. 2.80 and Rs. 10 respectively. Taking quantities used as weights find out the weighted arithmetic average of the prices.



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46. Calculate weighted mean of the following data by using Direct and

Short-cut Methods:

| | | | | | | |
|--------|----|----|----|----|----|----|
| Items | 81 | 76 | 74 | 58 | 70 | 73 |
| Weight | 2 | 3 | 6 | 7 | 3 | 7 |



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5 Ncert Questions With Hints To Answers

1. Which average would be suitable in the following cases?

(i) Average size of readymade garments.

- (ii) Average intelligence of students in a class.
- (iii) Average wages in an industrial concern.
- (iv) Average wages in an industrial concern.
- (v) When quantities of the variable are in ratios.
- (vi) When quantities of the variable are in ratios.
- (vii) In case of open-ended frequency distribution.



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2. Indicate the most appropriate alternative from the multiple choices provided against each question.

The most suitable average for qualitative measurement is:

- A. arithmetic mean
- B. median
- C. mode
- D. N/A

Answer: c

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3. Indicate the most appropriate alternative from the multiple choices provided against each question.

Which average is affected most by the presence of extreme items?

- A. median
- B. Mode
- C. arithmetic mean
- D. geometric mean

Answer: c

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4. Indicate the most appropriate alternative from the multiple choices provided against each question.

The algebraic sum of deviation of a set of n values from A.M. is

A. n

B. 0

C. 1

D. None of these

Answer: b



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5. The following table gives the daily income of ten workers in a factory.

Find the arithmetic mean.

| | | | | | | | | | | |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Workers | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> | <i>G</i> | <i>H</i> | <i>I</i> | <i>J</i> |
| Daily Income(in Rs.) | 120 | 150 | 180 | 200 | 250 | 300 | 220 | 350 | 370 | 260 |



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6. Following information pertains to the daily income of 150 families.

Calculate the arithmetic mean.

| Income (in Rs.) | Number of Families |
|-----------------|--------------------|
| More than 75 | 150 |
| More than 85 | 140 |
| More than 95 | 115 |
| More than 105 | 95 |
| More than 115 | 70 |
| More than 125 | 60 |
| More than 135 | 40 |
| More than 145 | 25 |



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7. Which average would be suitable in the following cases?

- (i) Average size of readymade garments.
- (ii) Average intelligence of students in a class.
- (iii) Average wages in an industrial concern.
- (iv) Average wages in an industrial concern.
- (v) When quantities of the variable are in ratios.
- (vi) When quantities of the variable are in ratios.
- (vii) In case of open-ended frequency distribution.



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8. Indicate the most appropriate alternative from the multiple choices provided against each question.

The most suitable average for qualitative measurement is:

A. arithmetic mean

B. median

C. mode

D. N/A

Answer: c



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9. Which average is affected most by the presence of extreme items?

A. median

B. Mode

C. arithmetic mean

D. geometric mean

Answer: c



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10. The algebraic sum of deviation of a set of n values from A.M. is

A. n

B. 0

C. 1

D. None of these

Answer: b



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11. The following table gives the daily income of ten workers in a factory.

Find the arithmetic mean.

| | | | | | | | | | | |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Workers | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | <i>F</i> | <i>G</i> | <i>H</i> | <i>I</i> | <i>J</i> |
| Daily Income(in Rs.) | 120 | 150 | 180 | 200 | 250 | 300 | 220 | 350 | 370 | 260 |



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12. Following information pertains to the daily income of 150 families.

Calculate the arithmetic mean.

| | |
|-----------------|--------------------|
| Income (in Rs.) | Number of Families |
| More than 75 | 150 |
| More than 85 | 140 |
| More than 95 | 115 |
| More than 105 | 95 |
| More than 115 | 70 |
| More than 125 | 60 |
| More than 135 | 40 |
| More than 145 | 25 |



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