Average

- -

1. What is the average of the first five even numbers?

   A) 4

   B) 6

   C) 8

   D) 10

   Answer: B) 6

2. The average of 5, 10, 15, and x is 20. What is the value of x?

   A) 20

   B) 30

   C) 40

   D) 50

   Answer: D) 50

3. The average age of a class of 30 students is 14 years. If the teacher's age is included, the average becomes 15 years. What is the teacher's age?

   A) 45 years

   B) 44 years

   C) 46 years

   D) 47 years

   Answer: A) 45 years

4. The average of three numbers is 20. If two of the numbers are 16 and 22, what is the third number?

   A) 20

   B) 22

   C) 24

   D) 18

   Answer: B) 22

5. Find the average of the first 10 prime numbers.

   A) 12.9

   B) 10

   C) 15.1

   D) 12

   Answer: A) 12.9

6. The average score of a cricketer in 10 matches is 38.9. If his average in the first six matches is 42, find the average of the last four matches.

   A) 33.25

   B) 34.25

   C) 35

   D) 36.5

   Answer: B) 34.25

7. The average of 7 consecutive numbers is 20. What is the largest of these numbers?

   A) 20

   B) 21

   C) 22

   D) 23

   Answer: D) 23

8. The average weight of 8 men is increased by 1.5 kg when one of the men, who weighs 65 kg, is replaced by a new man. The weight of the new man is:

   A) 70 kg

   B) 72 kg

   C) 75 kg

   D) 77 kg

   Answer: D) 77 kg

9. The average of a, b, and c is 20, and that of b, c, and d is 25. If d = 30, what is the value of a?

A) 15

B) 20

C) 25

D) 30

Answer: A) 15

10. The average of 11 numbers is 10.9. If the average of the first six numbers is 10.5 and that of the last six numbers is 11.4, what is the middle number?

A) 11

B) 11.5

C) 12

D) 12.5

Answer: B) 11.5

11. The average of the first 5 multiples of 3 is:

A) 3

B) 9

C) 12

D) 15

Answer: B) 9

12. The average temperature of a town in the first four days of a month was 58 degrees. The average for the second, third, fourth and fifth days was 60 degrees. If the temperatures of the first and fifth days were in the ratio 7:8, then what is the temperature on the fifth day?

A) 64 degrees

B) 62 degrees

C) 60 degrees

D) 56 degrees

Answer: A) 64 degrees

13. The average age of 5 children is 10 years. If two more children of ages 12 and 16 years join them, what is their new average age?

A) 11 years

B) 12 years

C) 13 years

D) 14 years

Answer: B) 12 years

14. The average of 1, 3, 5, 7, 9, 11, 13 is:

A) 5

B) 7

C) 9

D) 11

Answer: B) 7

15. The average monthly income of a person in a certain year was Rs. 3400. For the first 8 months, his average income was Rs. 3160 and for the last 5 months, it was Rs. 4120. His income in the 8th month was:

A) Rs. 3160

B) Rs. 5080

C) Rs. 15520

D) Rs. 4120

Answer: B) Rs. 5080

16. The average of 25 results is 18. The average of the first twelve of them is 14 and that of the last twelve is 17. The thirteenth result is:

A) 78

B) 80

C) 82

D) 84

Answer: A) 78

17. A batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Find his average after the 17th inning.

A) 39

B) 38

C) 37

D) 36

Answer: A) 39

18. The average weight of A, B, and C is 45 kg. If the average weight of A and B is 40 kg and that of B and C is 43 kg, then the weight of B is:

A) 31 kg

B) 32 kg

C) 35 kg

D) 37 kg

Answer: A) 31 kg

19. The average of 50 numbers is 30. If two numbers, 35 and 40, are discarded, then the average of the remaining numbers is:

A) 28.32

B) 28.78

C) 29.27

D) 29.68

Answer: D) 29.68

20. The average of the squares of the first ten natural numbers is:

A) 35.5

B) 36

C) 37.5

D) 38.5

Answer: D) 38.5

21. The average of 10 numbers is 7. If each number is multiplied by 12, then the average of the new set of numbers is:

A) 7

B) 19

C) 82

D) 84

Answer: D) 84

22. The average of 5 numbers is 27. If one number is excluded, the average becomes 25. The excluded number is:

A) 25

B) 27

C) 30

D) 35

Answer: D) 35

23. The average of four consecutive even numbers is 27. The largest of these numbers is:

A) 28

B) 30

C) 32

D) 34

Answer: B) 30

24. Out of three numbers, the first is twice the second and is half of the third. If the average of the three numbers is 56, then the numbers are:

A) 24, 12, 48

B) 48, 24, 96

C) 36, 18, 72

D) 72, 36, 144

Answer: B) 48, 24, 96

25. The average of the ages of a man and his daughter is 34 years. If the respective ratio of their ages four years from now is 14:5, what is the daughter's present age?

A) 10 years

B) 12 years

C) 16 years

D) 18 years

Answer: C) 16 years

26. The average of the first nine prime numbers is:

   A) 9

   B) 11

   C) 11 1/9

   D) 12 2/9

   Answer: C) 11 1/9

27. The average of x, x+2, x+4, x+6 and x+8 is 16. Find the value of x.

   A) 10

   B) 12

   C) 14

   D) 16

   Answer: B) 12

28. The average age of a husband, wife, and their child 3 years ago was 27 years and that of the wife and the child 5 years ago was 20 years. The present age of the husband is:

   A) 35 years

   B) 40 years

   C) 45 years

   D) 50 years

   Answer: B) 40 years

29. The average of five results is 46 and that of the first four is 45. The fifth result is:

   A) 1

   B) 10

   C) 12.5

   D) 50

Answer: D) 50

30. The average of the first five multiples of 7 is:

A) 14

B) 21

C) 28

D) 35

Answer: B) 21

31. A student's average score on 4 tests is 75. The student wants to raise their average to 80. What score must the student get on the fifth test?

A) 90

B) 95

C) 100

D) 85

Answer: C) 100

32. The average of 20 numbers is 12. The average of the first 12 is 11 and that of the next 7 is 10. The last number is:

A) 40

B) 38

C) 48

D) 50

Answer: A) 40

33. The average of three numbers is 77. The first number is twice the second and the second number is twice the third. The first number is:

A) 33

B) 66

C) 77

D) 132

Answer: D) 132

34. The average of the first 100 positive integers is:

   A) 100

   B) 51

   C) 50.5

   D) 49.5

   Answer: C) 50.5

35. The average age of 30 boys in a class is 15 years. If 10 more boys join the class, the average age of the whole class becomes 14 years. What is the average age of the 10 new boys?

   A) 10 years

   B) 11 years

   C) 12 years

   D) 13 years

   Answer: B) 11 years

36. The average of all odd numbers up to 100 is:

   A) 49

   B) 49.5

   C) 50

   D) 50.5

   Answer: C) 50

37. The average of the first 10 whole numbers is:

   A) 4.5

   B) 5

   C) 5.5

   D) 10

   Answer: A) 4.5

38. The average of 6 numbers is 30. If the average of the first four is 25 and that of the last three is 35, the fourth number is:

A) 25

B) 30

C) 35

D) 40

Answer: A) 25

39. The average weight of a class of 24 students is 35 kg. If the weight of the teacher be included, the average rises by 400g. The weight of the teacher is:

A) 45 kg

B) 46 kg

C) 47 kg

D) 48 kg

Answer: A) 45 kg

40. The average of a non-zero number and its square is 5 times the number. The number is:

A) 9

B) 17

C) 29

D) 295

Answer: A) 9

41. The average of the two-digit numbers, which remain the same when their digits are interchanged, is:

A) 33

B) 44

C) 55

D) 66

Answer: C) 55

42. The average of the first ten even numbers is:

A) 10

B) 11

C) 12

D) 13

Answer: B) 11

43. The average age of the family of five members is 24 years. If the present age of the youngest member is 8 years, then what was the average age of the family at the time of the birth of the youngest member?

A) 16 years

B) 20 years

C) 24 years

D) 32 years

Answer: B) 20 years

44. The average of 5 consecutive integers starting with m is n. What is the average of 6 consecutive integers starting with m+2?

A) (2n+5)/2

B) (n+2)

C) (n+3)

D) (2n+9)/2

Answer: D) (2n+9)/2

45. The average of the first 20 multiples of 3 is:

A) 30

B) 31.5

C) 40

D) 41.5

Answer: B) 31.5

46. The average of 100 observations was calculated as 40. It was found later on that one of the observations was misread as 83 instead of 53. The correct average is:

A) 39

B) 39.7

C) 40.3

D) 42.7

Answer: B) 39.7

47. The average of first 50 natural numbers is:

   A) 25.30

   B) 25.5

   C) 25.00

   D) 12.25

   Answer: B) 25.5

48. The average of three numbers is 45. The first number is 3 times the second, and the second is 2 times the third. Find the difference between the first and the third number.

   A) 54

   B) 63

   C) 72

   D) 81

   Answer: D) 81

49. The average salary of all the workers in a workshop is Rs. 8,000. The average salary of 7 technicians is Rs. 12,000 and the average salary of the rest is Rs. 6,000. The total number of workers in the workshop is:

   A) 20

   B) 21

   C) 22

   D) 23

   Answer: B) 21

50. The average of the first 10 multiples of 5 is:

   A) 25

   B) 27.5

   C) 30

D) 32.5

Answer: B) 27.5

51. The average of five numbers is -5. If the sum of the first three numbers is 15, what is the average of the last two numbers?

A) -10

B) -15

C) -20

D) -25

Answer: C) -20

52. The average age of a group of 10 students is 15 years. When 5 more students join the group, the average age increases by 1 year. The average age of the new students is:

A) 18 years

B) 19 years

C) 20 years

D) 21 years

Answer: A) 18 years

53. The average of a,b,c is 11; average of c,d,e is 17; average of e,f is 22 and average of e,c is 17. Find the average of a,b,c,d,e,f.

A) 15

B) 16

C) 17

D) 18

Answer: B) 16

54. The average of the first five prime numbers greater than 20 is:

A) 29.8

B) 30.2

C) 31.4

D) 32.6

Answer: C) 31.4

55. If the average of m, m+4, m+8, m+12 and m+16 is 20, then m is:

   A) 8

   B) 12

   C) 16

   D) 20

   Answer: B) 12

56. The average of the numbers 1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5 is:

   A) 3

   B) 3.5

   C) 3.66

   D) 3.8

   Answer: C) 3.66

57. The average of the first five odd prime numbers is:

   A) 5.6

   B) 7.2

   C) 8.4

   D) 9.8

   Answer: A) 5.6

58. The average monthly expenditure of a family for the first four months is Rs. 2570, for the next three months is Rs. 2490 and for the last five months is Rs. 3030. If the family saves Rs. 5320 during the whole year, the average monthly income of the family is:

   A) Rs. 3000

   B) Rs. 3185

   C) Rs. 3200

   D) Rs. 3580

   Answer: B) Rs. 3185

59. The average of the first 10 natural numbers is:

   A) 5

   B) 5.5

   C) 6

   D) 6.5

   Answer: B) 5.5

60. The average of the first 15 odd numbers is:

   A) 15

   B) 16

   C) 17

   D) 30

   Answer: A) 15

61. A cricketer has a certain average for 10 innings. In the eleventh inning, he scores 108 runs, thereby increasing his average by 6 runs. His new average is:

   A) 48

   B) 52

   C) 55

   D) 60

   Answer: A) 48

62. The average of 10 numbers is zero. Of them, at the most, how many may be greater than zero?

   A) 0

   B) 1

   C) 5

   D) 9

   Answer: D) 9

63. The average of the marks of a student in 7 subjects is 75. His average in 6 subjects excluding science is 72. How many marks did he get in science?

   A) 72

B) 90

C) 93

D) 96

Answer: C) 93

64. The average of first five multiples of 9 is:

A) 20

B) 27

C) 30

D) 45

Answer: B) 27

65. The average of a collection of 20 measurements was calculated to be 56 cm. Later it was found that a mistake had been made in one of the measurements which was recorded as 64 cm, but should have been 61 cm. The correct average is:

A) 54.85 cm

B) 55.85 cm

C) 56.15 cm

D) 57.15 cm

Answer: B) 55.85 cm

66. The average age of a class is 15.8 years. The average age of boys in the class is 16.4 years and that of the girls is 15.4 years. The ratio of the number of boys to the number of girls in the class is:

A) 1:2

B) 2:3

C) 3:4

D) 3:5

Answer: B) 2:3

67. The average of 13 numbers is 68. The average of the first 7 numbers is 63 and that of the last 7 numbers is 70. The seventh number is:

A) 47

B) 49

C) 51

D) 53

Answer: A) 47

68. The average age of 8 persons is increased by 2 years when two of them whose ages are 21 years and 23 years are replaced by two new persons. The average age of the two new persons is:

A) 22 years

B) 24 years

C) 28 years

D) 30 years

Answer: D) 30 years

69. The average of 11 results is 60. If the average of the first five results is 58 and that of the last five is 56, the sixth result is:

A) 90

B) 110

C) 100

D) 80

Answer: B) 110

70. The average of 5 consecutive odd numbers is 61. What is the difference between the highest and lowest numbers?

A) 2

B) 5

C) 8

D) 10

Answer: C) 8

71. The average of the first 20 odd natural numbers is:

A) 10

B) 20

C) 30

D) 40

Answer: B) 20

72. The average of three consecutive odd numbers is 51. The greatest number is:

A) 49

B) 51

C) 53

D) 55

Answer: C) 53

73. The average weight of 15 students in a class is 40 kg. If 5 new students with an average weight of 30 kg join the class, what is the average weight of the entire class?

A) 35 kg

B) 36.5 kg

C) 37.5 kg

D) 38 kg

Answer: C) 37.5 kg

74. The average of four consecutive numbers A, B, C, and D is 49.5. What is the product of B and D?

A) 2450

B) 2499

C) 2550

D) 2352

Answer: B) 2499

75. The average of 10 items is 80. If one item of value 50 is replaced by another item of value 70, the new average will be:

A) 80

B) 81

C) 82

D) 83

Answer: C) 82

76. The average height of 30 girls out of a class of 40 is 160 cm and that of the remaining girls is 156 cm. The average height of the whole class is:

A) 158 cm

B) 158.5 cm

C) 159 cm

D) 159.5 cm

Answer: C) 159 cm

77. The average of 5 quantities is 6. The average of 3 of them is 4. What is the average of the remaining two quantities?

A) 8

B) 9

C) 10

D) 11

Answer: B) 9

78. The average age of a committee of 8 members is 40 years. A member aged 55 years retired and is replaced by a member aged 39 years. The average age of the present committee is:

A) 38 years

B) 36 years

C) 35 years

D) 34 years

Answer: A) 38 years

79. The average temperature for Monday, Tuesday, and Wednesday was 40°C. The average for Tuesday, Wednesday, and Thursday was 41°C. If the temperature on Thursday was 42°C, what was the temperature on Monday?

A) 39°C

B) 40°C

C) 41°C

D) 42°C

Answer: A) 39°C

80. The average of the first 10 composite numbers is:

  A) 11.2

  B) 12.1

  C) 10.3

  D) 13.4

  Answer: A) 11.2

81. A car travels at an average speed of 50 km/hr for 2.5 hours and then at an average speed of 70 km/hr for 1.5 hours. The average speed of the car for the entire journey is:

  A) 57.5 km/hr

  B) 60 km/hr

  C) 62.5 km/hr

  D) 65 km/hr

  Answer: A) 57.5 km/hr

82. The average of three numbers is 28. The first number is half of the second, and the third number is twice the second. The third number is:

  A) 48

  B) 36

  C) 24

  D) 18

  Answer: A) 48

83. The average of the cubes of the first five natural numbers is:

  A) 25

  B) 35

  C) 45

  D) 55

  Answer: C) 45

84. The average of 5 consecutive numbers is n. If the next two numbers are also included, the average will:

   A) remain the same

   B) increase by 1

   C) increase by 1.5

   D) increase by 2

   Answer: B) increase by 1

85. A student obtained 60, 65, 70, 75 and 80 marks in 5 subjects. The average marks are:

   A) 68

   B) 70

   C) 72

   D) 75

   Answer: B) 70

86. The average of all prime numbers between 30 and 50 is:

   A) 39.8

   B) 38.8

   C) 37.8

   D) 36.8

   Answer: A) 39.8

87. The average age of P, Q and R is 5 years more than R's age. If the total age of P and Q is 39 years, then R's age is:

   A) 12 years

   B) 14 years

   C) 15 years

   D) 17 years

   Answer: A) 12 years

88. The average of the first 25 multiples of 5 is:

   A) 50

B) 60

C) 65

D) 70

Answer: C) 65

89. A man bought 13 shirts of Rs. 50 each, 15 pants of Rs. 60 each and 12 pairs of shoes at Rs. 65 a pair. Find the average value of each article.

A) Rs. 58.75

B) Rs. 59.25

C) Rs. 60.50

D) Rs. 61.25

Answer: A) Rs. 58.75

90. The average of four consecutive odd numbers is 12. The smallest number is:

A) 7

B) 9

C) 11

D) 13

Answer: B) 9

91. The average of 10 numbers is 40.2. Later it is found that two numbers have been wrongly copied. The first is 18 greater than the actual number and the second number is 13 instead of 31. Find the correct average.

A) 40.2

B) 40.4

C) 40.6

D) 40.8

Answer: A) 40.2

92. The average weight of 29 students is 28 kg. By the admission of a new student, the average weight is reduced to 27.8 kg. The weight of the new student is:

A) 22 kg

B) 21.6 kg

C) 22.4 kg

D) 21 kg

Answer: A) 22 kg

93. The average of the first four of five numbers is 26 and that of the last four is 25. The difference between the first and the last number is:

A) 1

B) 4

C) 5

D) 16

Answer: B) 4

94. The average of the numbers 10, 20, 30, 40, 50 is:

A) 20

B) 30

C) 40

D) 50

Answer: B) 30

95. In a class, the average score of girls in an examination is 73 and that of boys is 71. The average score for the whole class is 71.8. Find the percentage of girls.

A) 40%

B) 50%

C) 60%

D) 70%

Answer: A) 40%

96. The average age of 24 students and the principal is 15 years. When the principal's age is excluded, the average age decreases by 1 year. What is the age of the principal?

A) 38 years

B) 39 years

C) 40 years

D) 41 years

Answer: B) 39 years

97. The average of the first 10 multiples of 10 is:

A) 50

B) 55

C) 60

D) 65

Answer: B) 55

98. The average of 9 numbers is 50. The average of the first five numbers is 54 and that of the last three numbers is 52. Then the sixth number is:

A) 24

B) 26

C) 28

D) 30

Answer: A) 24

99. The average of 1, 2, 3, 4, 5, 6, 7 is:

A) 3

B) 4

C) 5

D) 6

Answer: B) 4

100. The average salary per head of all workers of an institution is Rs. 60. The average salary per head of 12 officers is Rs. 400. The average salary per head of the rest is Rs. 56. Then the total number of workers in the institution is:

A) 1032

B) 1062

C) 1060

D) 1030

Answer: A) 1032