

AVERAGE



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1. **The average age of all the students of a class is 18 years. The average age of boys of the class is 20 years and that of the girls is 15 years. If the number of girls in the class is 20, then find the number of boys in the class ?**

A 15

B 45

C 30

D 50

2. The batting average of a cricketer is 50 runs / innings. In next 5 innings he scores 400 runs and thereby increases his batting average by 5 runs. What is the total number of innings played by him till last match ?

A 15

B 22

C 30

D 25

3. The average of any 5 consecutive odd natural numbers is k . If two more such numbers, just next to the previous 5 numbers are added, the new average becomes?

A $2(k + 1)$

B $2k - 3$

C $2k + 1$

D $k + 2$

4. The average of 26,29,n,35 and 43 lies between 25 and 35. If n is always an integer and greater than the average of the given integers then the value of n is :

A 33

B 34

C $33 < n < 42$

D None of these

5. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is :

A 285

B 290

C 297

D 305

6. **Out of five numbers, average of first four numbers is 15 and the average of last four numbers is 12. Also last number is 18. What is the first number?**

A 48

B 27

C 33

D 30

7. **Out of three numbers, second number is twice the first and is also thrice the third. If average of these numbers is 44 then find the largest number.**

A 22

B 24

C 72

D 36

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

A 28.32

B 29.68

C 28.78

D 29.27

9. The average salary of Rajesh, Shyam and Manoj is Rs.800 and the net average salary of Shyam, Piyush and Manoj is Rs.900 and if Piyush's salary is Rs.900 what is Rajesh's salary?

A 600

B 400

C 900

D 500

10. The average age of a class is 19 years. While the average age of boys is 20 and the average age of girls is 17. If the number of boys is 20 then find the number of girls in the class.

A 10

B 15

C 16

D 18

11. The average expenditure of Sharma for the January to June is Rs. 4200 and he spent Rs. 1200 in January and Rs.1500 in July. The average expenditure for the months of February to July is:

A 4190

B 4330

C 4580

D 4250

12. The average marks obtained by 100 candidates in an examination are 45. If the average marks of the passed students are 50 while the average marks of the failed students is 40. Then find the number of students who passed the examination.

A 50

B 25

C 45

D 75

13. The ratio of the ages of the father and the daughter at present is 3 : 1. Four years ago the ratio was 4 : 1. The average age of the father and daughter 2 years hence will be.

A 24

B 26

C 28

D 30

14. The average price of three items is 24 . If their prices are in the ratio 3:4:5 price of expensive item

A 18

B 24

C 30

D 72

15. In a class of 60 students 23 are girls. The average mark of boys is 45 and average mark of girls is 52. What is the average mark of the class?

A 42.7

B 52.2

C 47.68

D 62.1

16. The average of marks secured by 35 students is 72. If the marks secured by one student was written as 36 instead of 86 then find the correct average ?

A 73.4

B 75.2

C 73.8

D 72.7

17. The average of 9 numbers is 30. The average of first 5 numbers is 25 and that of last 3 numbers is 35. What is the sixth number ?

A 40

B 38

C 28

D 48

18. In a journey of 160 km , a car covers the distance of 120 km at a speed of 80 km/h and the remaining distance at 40 km/hr. Find the average speed of the car for the whole journey ?

A 55 km/hr

B 64 km/hr

C 72 km/hr

D 68 km/hr

19. The sum of three consecutive numbers is 294. What is the sum of the smallest and the largest numbers?

A 174

B 185

C 196

D 200

20. The average of the runs of a cricketer of 10 innings was 52. How many runs he needs to take in the next innings to increase the average by 4 runs ?

A 48

B 96

C 52

D 60

21. The mean temperature of Sunday to Wednesday was 39° C and that of Monday to Thursday was 36° C. If the temperature of Thursday was $\frac{3}{4}$ th of Sunday, what was the temperature of Thursday.

A 32

B 36

C 30

D 38

22. Athira purchased 50 flowers. But she saw that she could get 10 more flowers for extra Rs. 70 and the average price per flower would be reduced by Rs. 1. What is the average price of each flower she bought ?

A 10

B 12

C 13

D 14

23. A person decided to divide his his total route of journey into three equal parts cover this distances with speeds 15, 20, 30 \(\text{ km/hr }\) respectively. Find his average speed during the while journey.

A 18

B 20

C 30

D 25

24. 144 typists typed 4608 papers in $\left(\frac{2}{15}\right)$ hr. The number of papers typed for a minute by an average typist is ?

A 3

B 2

C 4

D 5

25. The average of 15 numbers (written serially) is 205. The average of the first 7 numbers is 185 and the average of the last 7 numbers is 248. What is the middle number?

A 121

B 200

C 136

D 44

26. If the average of 5,6,7 and X is 8. What is the value of X?

A 8

B 12

C 14

D 16

27. In a class, the average age of 40 students is 15. If 10 new students are included, then the average age of students increases by 0.2 years. The average age of new students is

A 15

B 17

C 16

D 18

28. A cricket player has a certain average of runs for his 8 innings. In the 9th innings he scores 100 runs. There by increases his average by 9 runs. His new average of runs is

A 28

B 21

C 24

D 32

29. The bowling average of a cricket player was (12.4) . He improves his average by (0.2) points when he takes (5) wickets for (26) runs in his last match. The number of wickets taken by him before the last match was :

A (205)

B (175)

C (225)

D (220)

30. Find the average of even numbers up to (75) ?

A (37)

B (39)

C (38)

D (40)

31. Average temperature of Monday to Wednesday is 37°c . While the average temperature from Tuesday to Thursday is 34°c . The temperature of Thursday is $\frac{4}{5}$ times to that of Monday. Find the temperature of Thursday?

A 37°c

B 34°c

C 36°c

D 32°c

32. The average of 3 consecutive terms in an arithmetic progression with common difference 3 is 15. Find the third term?

A 15

B 18

C 21

D 12

33. Average of 6 consecutive even number is 25. Find largest ,smallest numbers?

A 20,30

B 25,35

C 20,32

D 18,28

34. Average of (5) consecutive odd numbers A, B, C, D & E is (45) . What is the product of B and D ?

A (2025)

B (1935)

C (2021)

D (1981)

35. There are total 500 students in a school. Average age of girls is 10 years and of boys is 8 years while average age of all students is 9.3. Find the number of girls in the school?

A 125

B 325

C 375

D 425

36. The average of 5 teachers in a school is 30. If the age of the Principle is added the average increases by 3. What is the age of the Principle ?

A 33

B 38

C 48

D 43

37. Out of 15 persons , 14 persons spent Rs 75 each for their meals. The (15^{th}) person spent Rs 70 more than the average expenditure of all the fifteen. The total money spent by all of them was

A Rs 1,150

B Rs 1,055

C Rs 1,120

D Rs 1,200

38. A batsman makes a score of 10 and 20 in his first two innings. To increase his average by 5, how many runs do he need to score in his third innings?

A 25

B 40

C 30

D 50

39. There are (50) students in a class. Their average weight is (45) . When one of the student leaves the class the average weight reduces by (100) g. What is the weight of the student who left the class?

A (45)

B (47.9)

C (49.9)

D (50.1)

40. The average of 11 cricket players is 20 years. If the age of the coach is also included, the average age is increased by 10%. The age of the coach is :

A 48 Years

B 44 Years

C 40 Years

D 36 Years

41. In a class of 20 students, 19 get an average of 42 marks .If the remaining student get 62 marks. The average mark of the Whole class is:

A 40

B 43

C 45

D 48

42. The Average age of A ,B and C is 40 years. If average age of B and C is 45 years and the age of B is 40 years. Then what is the sum of Ages of A and C

A 120

B 90

C 70

D 80

43. Average of A and B is 25. The average of B and C is 15. If C is half of B, what is the value of A ?

A 26

B 28

C 30

D 32

44. If the number of boys in a class is three times the number of girls of the same class, which one of the following numbers cannot represent the total number of students in the class ?

A 40

B 44

C 42

D 48

45. There are 20 students in a class with an average height of 105 cm. Then 5 students with an average height of 120 cm join the class. The average height of the students in the class now is:

A 112.5cm

B 115 cm

C 107.5cm

D 108 cm

46. **If there are 3 numbers such the double of the first number is the second number and double of the second number is the third number. If the average of these three numbers is 210 then th e first number :**

A 60

B 90

C 45

D 40

47. If 3 numbers are in the ratio of 1:3:4 and average of these numbers is 56, then one of these numbers is :

A 92

B 64

C 42

D 84

48. The Geometric mean of 4, 5, 20, 25 is :

A 10,000

B 100

C 10

D None of these

50. If there are three numbers such that first number is the double of the second number and the third number is the one third of the first number. If the average of these numbers is 22, then anyone of these numbers is

A 81

B 16

C 95

D 18



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