1. What is the average of first 21 multiples of 7?

1. 49
2. 77
3. 66
4. 57

Solution : Required average = 7(1+2+....+21) / 21

(7/21)X ((21x22) / 2) (because sum of first 21 natural numbers)

= 77

2. In a class, the average age of 30 boys is 13 years and the average of 20 girls is 12 years. what is the average age of the whole class?

1. 12.5 Yrs
2. 14.2 Yrs
3. 12.3 Yrs
4. 12.6 Yrs

Solution : Total age of 50 students

(30X 13+20 X 12) = 630

Average = 630/50 = 12.6 Years

3. The average age of a class of 32 students is 16 yrs. if the teacher's age is also included, the average increases by one year. Find the age of the teacher

1. 49
2. 48
3. 47
4. 50

Solution : Total age of students is 32 X 16 = 512 Years

Total age inclusive of teacher = 33 X (16+1) = 561

So, Teacher's age is 561-512 = 49 Yrs

There is a shortcut for these type of problems

Teacher's age is 16+(33 X 1) = 49 Years

4. The average of seven numbers is 18. The average of first three numbers is 14 and the average of last three numbers is 19. What is the middle number?

1. 42
2. 57
3. 27
4. None of these

Solution : The total of seven numbers = 7 X 18 = 126

The total of first 3 and last 3 numbers is = 3 X 14+3 X 19 = 99

So, the middle number is (126 - 99) = 27

5. Average of five consecutive even numbers is 35. Find the greatest number in these five numbers?

1. 31
2. 33
3. 39
4. 36

Solution : 39

6. Average of 13 results is 65. If the average of first six results is 61 and average of last six results is 59 Then find the seventh result?

1. 115
2. 135
3. 125
4. 105

Solution : 125

7. The average weight of a class of 20 boys was calculated to be 58.4 kgs and it was later found that one weight was misread as 56 kg instead of 65 kg. What is the correct weight?

1. 67.4kg
2. 57.75kg
3. 58.85kg
4. 49.4kg

Solution : Actual total weight is (20 X 58.4 - 56 + 65) = 1177 Kgs
Actual average weight is 1177/20 = 58.85kgs

8. The average of 10 numbers is 25. The average of first three numbers is 22 1/3 and that of next five is 15 1/5. If the eighth be less than the ninth and tenth numbers by 5 and 11 respectively, then the tenth number is:

1. 29
2. 21
3. 41
4. 30

Solution : 41

9. The average of 5 consecutive numbers is n. if the next two number are also included. The average will?

1. Remain the same
2. Increase by 1
3. Increase by 2
4. Decrease by 1

Solution : Increase by 1

10. The average of marks of a student of 8 exams was 35. How many marks must be get in the next exam so as to increase his average of marks by 5?

1. 75
2. 80
3. 83
4. 79

Solution : 80

11. If the average age of six numbers is 30. If one is excluded. The average become 25. The excluded number is:

1. 54
2. 55
3. 53
4. 45

Solution :

12. Of the three numbers whose average is 45, the first is half of the sum of the others. The first number is:

1. 45
2. 51
3. 59
4. 49

Solution : 45

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13. The average age of father and his two sons is 27 Years. Five years ago, the average age of the two sons was 12 Years. If the difference between the ages of the two sons is four years, what is the present age of the father?

1. 42

2. 47
3. 48
4. 49

Solution : The total present age of father and two sons is 3S27 = 81 yrs
The total present age of sons is (12+5) X 2 = 34Years
so, present age of father is 81 - 34 = 47 yrs

14. There were 45 students in a hostel, if the numbers of students increased by 7, the expenses of the mess were increased by Rs. 39 per day while the average expenditure per head diminished by Re.1. What is the original expenditure of the mess?

1. Rs. 562
2. Rs. 624
3. Rs. 1950
4. Rs. 585

Solution : Let the original expenditure be Rs.x
Original average expenditure = X/45
New average expenditure = (x+39)/52
So (x/45) - ((x+39) / 52) = 1 so x = 585
so, original expenditure is Rs 585

15. Of three numbers, the third is twice the second and the second is 4 times the first. If their average is 78, the smallest of the three numbers is:

1. 15
2. 21
3. 17
4. 18

Solution : Let first number be x.
So,2nd no. = 4x & 3rd no.=8x.
So,x+4x+8x=78 X 3 = 234.
13x = 234
x = 234/13

Hence,smallest Number x=18.

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16. If the average of seven numbers is 35. If one is included. The average become 40. The included number is:

1. 70
2. 75
3. 65
4. 80

Solution : 75

17. Out of 12 employs of a bank, one employ retires and his place, a new employ of age 24 years joins as a result average age of employs reduces by 4 years. The age of the retired employ is:

1. 72
2. 62
3. 64
4. 71

Solution : 72

18. A man covered a certain distance at a speed of 8 Kmph and returned at a speed of 4 Kmph. Find the average speed of whole journey?

1. 3 ¾ Kmph
2. 5 1/3 Kmph
3. 4 ¼ Kmph
4. 2 ¼ Kmph

Solution : 5 1/3 Kmph

19. The average of first five odd numbers is?

1. 5
2. 4
3. 4.5
4. 5.2

Solution : 5

20. The average temperature for Monday, Tuesday and Wednesday was 41 c. the average temperature for Tuesday, Wednesday and Thursday was 42 c. If the temperature on Thursday be 43 c, what was the temperature on Monday?

1. 41 c
2. 39 c
3. 40 c
4. 42 c

Solution : Answer: Option 'C'