



## SHEET-1

### PROBLEMS ON AGES

1. Average age of A and B is 24 years and average age of B, C and D is 22 years. The sum of the ages of A, B, C and D is

90      98      120      Data is not adequate

2. Ten years ago A was half of B in age. If the ratio of their present ages is 3 : 4, what will be the total of their present ages

30      35      37      41

3. Total of the ages of A, B and C at present is 90 years. Ten years ago, the ratio of their ages was 1: 2: 3. What is the age of B at present

25      30      45      60

4. The sum of the present ages of a father and his son is 60 years. Six years ago, father's age was five times the age of the son. After 6 years, son's age will be

15 years      18 years      20 years      22 years

5. Six years ago, the ratio of the ages of Kunal and Sagar was 6:5, Four years hence, the ratio of their ages will be 11:10. What is Sagar age at present

10 years      12 years      14 years      16 years

6. The ages of two persons differ by 20 years. If 5 years ago, the elder one be 5 times as old as the younger one, their present ages (in years) are respectively

20,20      20,10      25,15      30,10

7. Sachin is younger than Rahul by 7 years. If the ratio of their ages is 7:9, find the age of Sachin

23.5      24.5      12.5      14.5

8. The ages of two persons differ by 16 years. 6 years ago, the elder one was 3 times as old as the younger one. What are their present ages of the elder person

15    20    25    30    24%      28%      32%    36%

9. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is

20 years    21 years      22 years      24 years

10. Ratio of ages of three persons is 4:7:9, Eight years ago, the sum of their ages was 56. Find their present ages.

16,35,36      12,28,36      16,28,27      16,28,36

11. Raju age after 15 years will be 5 times his age 5 years back, What is the present age of Raju

15      14      10      8

12. Ages of two persons differ by 16 years. If 6 year ago, the elder one be 3 times as old the younger one, find their present age

12,28      14,30      16,32      18,34

13. The sum of the ages of a father and son is 45 years. Five years ago, the product of their ages was four times the fathers age at that time. The present age of father and son

34,11      35,10      36,9      40,5

14. Ten years ago, P was half of Q in age. If the ratio of their present ages is 3:4, what will be the total of their present ages

35      34      45      25

15. The ratio between the present ages of P and Q is 6:7. If Q is 4 years old than P, what will be the ratio of the ages of P and Q after 4 years

7:8      7:9      3:8      5:8

16. The total age of A and B is 12 years more than the total age of B and C. C is how many year younger than A

11      12      13      14      Only assumption I is implicit      Only assumption II is implicit

17. Sachin was twice as old as Ajay 10 years back. How old is Ajay today if Sachin will be 40 years old 10 years hence

18      25      15      20

18. Tanya's grandfather was 8 times older to her 16 years ago. He would be 3 times of her age 8 years from now. What was ratio of ages of Tanya and her grandfather 8 years ago.

11:50      11:51      11:53      11:54

19. A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present

38      40      42      44

20. Ratio between Rahul and Deepak is 4:3, After 6 Years Rahul age will be 26 years. What is Deepak present age.

14      15      20      22

21. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of this son is

21 years      22 years      23 years      24 years

22. Ten years ago, P was half of Q in age. If the ratio of their present ages is 3:4, what will be the total of their present ages?

45      40      35      30

23. A man is 24 years older than his son. In two years, his age will be twice the age of his son. What is the present age of his son?

23 22 21 20

24. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. Find out the age of the youngest child?

6 5 4 3

25. The Average age of a class of 22 students is 21 years. The average increased by 1 when the teacher's age also included. What is the age of the teacher?

48 45 43 44

26. Ayisha's age is  $\frac{1}{6}$ th of her father's age. Ayisha 's father's age will be twice the age of Shankar's age after 10 years. If Shankar's eight birthdays was celebrated two years before, then what is Ayisha 's present age.

10 12 8 5

27. Six years ago, the ratio of the ages of Vimal and Saroj was 6 : 5. Four years hence, the ratio of their ages will be 11 : 10. What is Saroj's age at present?

18 17 16 15

28. The present ages of A,B and C are in proportions 4 : 7 : 9. Eight years ago, the sum of their ages was 56. What are their present ages (in years)?

Insufficient data 16,30,40 16,28,40 16,28,36

29. A is as much younger than B and he is older than C. If the sum of the ages of B and C is 50 years, what is definitely the difference between B and A's age?

Insufficient data 3 2 5

30. If 6 years are subtracted from the present age of Ajay and the remainder is divided by 18, then the present age of Rahul is obtained. If Rahul is 2 years younger to Denis whose age is 5 years, then what is Ajay 's present age?

55 60 50 62

33. The total age of A and B is 12 years more than the total age of B and C. C is how many year younger than A?

10 11 12 13

34. Sandeep's age after six years will be three-seventh of his father's age. Ten years ago the ratio of their ages was 1 : 5. What is Sandeep's father's age at present?

30 40 50 60

35. Father is aged three times more than his son Sunil. After 8 years, he would be two and a half times of Sunil's age. After further 8 years, how many times would he be of Sunil's age?

2 3 4 5



## SHEET-2

### PROBLEMS ON AVERAGE

1. Find the average of all prime numbers between 35 and 60.

- A. 40    B. 50    C. 46.7    D. 45

2. Find the average of first 30 natural number.

- A. 20    B. 15.5    C. 25    D. 18

3. Find the average of first 4 multiples of 5.

- A. 11.5    B. 11    C. 12    D. 12.5

4. The average of the first 5 prime numbers greater than 60 is :

- A. 72    B. 70.20    C. 71.70    D. 72.24

5. Find the average of all the numbers between 6 and 34 which are divisible by 5.

- A. 18    B. 20    C. 24    D. 30

6. The average of 3, 5, 6 & X is 6 and the average of 4, 7, 9, X and Y is 7. What is the value of Y?

- A. 4    B. 5    C. 3    D. 6

7. If the average of 4 observations  $a$ ,  $a+4$ ,  $a+5$  and  $a+7$  is 8, then what will be the average of last two observations?

- A. 8    B. 10    C. 12    D. 15

8. The average age of a class of 39 students is 15 years. If the age of the teacher be included, then the average increases by 3 months. Find the age of the teacher.

- A. 20 years    B. 22 years    C. 25 years    D. 30 years

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

- A. 35    B. 38    C. 39    D. 40

10. The average weight of A, B & C is 45 Kg. If the average weight of A and B be 40 Kg and that of B & C be 43 Kg than the weight of B is :

- A. 17 Kg    B. 20 Kg    C. 26 Kg    D. 31 Kg

11. The average age of a husband & his wife was 26 years at the time of their marriage. After 6 year they have a 2 year old child. What is the average age of the family?

- A. 25 Years    B. 22 Years    C. 24 Years    D. 28 Years

12. In the first 12 overs of a cricket match, the run rate was 4. What should be the run in the remaining 38 overs to reach the target of 238 runs?

- A. 5      B. 6      C. 4.5      D. 5.5

13. The average weight of 20 students in a class is 44 kg and that of the remaining 10 student is 38. Find the average weights of all the students the class.

- A. 39 kg      B. 41 kg      C. 42 kg      D. 43 kg

14. In a library there is an average of 440 visitors on Sunday and 260 visitors on other days. The average number of visitor per day in a month of 30 days beginning with a Sunday is-

- A. 300      B. 310      C. 290      D. 270

15. The average marks of three classes of 30, 35, and 40 students are 65, 70, and 75, respectively. Find the average marks of all the students.

- A. 34.5      B. 35.24      C. 36      D. 34

16. The average age of husband, wife and their child 5 years ago was 25 year and the average age of wife and the child 4 years ago was 18 years. The present age of husband is-

- A. 45 years      B. 46 years      C. 50 years      D. 52 years

17. Shyam obtained 60, 65, 70, 72, and 78 marks in English, Hindi, Chemistry, History and Mathematics respectively. What are the average marks in all subjects?

- A. 69      B. 65      C. 68      D. 70

18. The average weight of a class of 20 students is 40 kg. if the weight of the teacher be included, the average rises by 2 kg. The weight of the teacher is.

- A. 80      B. 85      C. 82      D. 75

19. The average weight of 6 person's increases by 2 kg when a new person came in place of one of them weighing 55 kg. What is the weight of the person?

- A. 67 kg      B. 65 kg      C. 60 kg      D. 62 kg

20. 5 year ago, the average age of A and B was 25 years. If C joined them, the average age becomes 28 years. How old is C Now?

- A. 20 Years      B. 25 Years      C. 24 Years      D. 30 Years

21. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?

- 6.25**      5.5      7.4      5

22. The average of 20 numbers is zero. Of them, How many of them may be greater than zero , at the most?

- 1      20      0      **19**

23. The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years older. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. Find out the average age of the team.

23 20 24 21

24. A car owner buys diesel at Rs.7.50, Rs. 8 and Rs. 8.50 per litre for three successive years. What approximately is the average cost per litre of diesel if he spends Rs. 4000 each year?

8 7.98 6.2 8.1

25. A library has an average of 510 visitors on Sundays and 240 on other days. What is the average number of visitors per day in a month of 30 days beginning with a Sunday?

290 304 285 270

26. A student's mark was wrongly entered as 83 instead of 63. Due to that the average marks for the class got increased by half  $\frac{1}{2}$ . What is the number of students in the class?

45 40 35 30

27. If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, what is the average marks of all the students?

53.23 54.68 51.33 50

28. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What is the weight of the new person?

75 50 85 80

29. Distance between two stations A and B is 778 km. A train covers the journey from A to B at 84 km per hour and returns back to A with a uniform speed of 56km per hour. Find the average speed of the train during the whole journey?

69 69.2 67.2 67

30. The average of six numbers is x and the average of three of these is y. If the average of the remaining three is z, then

None  $x=y+z$   $2x=y+z$   $x=2y+2z$

In an examination, a student's average marks were 63. If he had obtained 20 more marks for his Geography and 2 more marks for his history, his average would have been 65. How many subjects were there in the examination?

12 11 13 14

31. The average salary of all the workers in a workshop is Rs.8000. The average salary of 7 technicians is Rs.12000 and the average salary of the rest is Rs.6000. How many workers are there in the workshop ?

21 22 23 24