PROBLEMS ON AGES

Direction: Read the following questions carefully and choose the right answer.

1. Rajeev's present age is 100/3 % of his father's age and his father's age is half of Rajeev's grandfather's age. The average of the present ages of all of them is 110/3 years. What was the ratio of their ages 10 years ago?

A. 1 : 43 : 56 B. 1 : 23 : 56 C. 1 : 23 : 46 D. 1 : 26 : 56 E. None of these

2. Arjun is 2 years younger to Bhuvan whose age is 12 years. When 10 years are subtracted from the present age of Shanju and then the result is divided by 6, the present age of his grandson Arjun is obtained. Then what is the ratio of ages of Arjun, Bhuvan and shanju?

A. 5 : 6 : 35 B. 7 : 2 : 23 C. 7 : 2 : 35 D. 5 : 6 : 23 E. None of these

3. The sum of ages of Rahul and Ravi is equal to sum of the ages of Nitin and Nishant ten years from now. Ravi is older than Nishant by 5 years. The ratio of age of Nitin and Ravi is 3 : 2. If the sum of ages of Rahul and Nitin was 47 five years before, find the age of Rahul at present.

A.39 years B. 35 years C. 37 years D. 36 years E. 38 years

4. There are three members in a family – husband, wife and their son. Husband's age is thrice his son's age and wife is three years younger than his husband. What is the respective ratio of ages of son, husband and wife if their average age is 41?

A. 17 : 9 : 18 B. 15 : 4 : 12 C. 6 : 18 : 17 D. 4 : 12 : 15 E. None of these

5. The respective ratio of the present age of grandfather, father, mother and son is 25 : 14 : 11 : 6. Before 9 years, the ratio of the age of Grandfather and son was 13 : 3 respectively. What will be the average of the age of father and mother after 9 years?

A. 75 years B. 350 years C. 375 years D. 384 years E. None of these

6. A is 8 years older to B but 11 years younger to C. When the average age of all of them was 26 years, D was born. When D became 16 years old, C died, then what was the average age of the remaining three persons?

A. 30 years 4 months B. 30 years C. 29 years 8 months D. 32 years E. None of these

Present average of age of A and B is 6x – 15 years. Present average age of A, B and C is 4x + 6 years. If present age of B is 25% less than the present age of C and 20% more than the present age of A, then find the present age of A.

8. The age of Arjun is (x + 5) years. The ratio of the age of Arjun 2 years hence to the age of Draupadi 1 year before is 6 : 5 respectively. If Arjun is 4 years older than Draupadi, then find the age of Shubhadra whose age is 4 years less than the average age of Arjun and Draupadi taken together.

A. 30 years B. 36 years C. 34 years D. 32 years E. None of these

9. Arun and Meena recently celebrated their golden anniversary and their daughter Seema's birthday. If the age of Seema 18 years after her parents' marriage and her age at their golden anniversary is in the ratio 5 : 21, how many years after the marriage was Seema born?

A. 8 years B. 15 years C. 12 years D. 10 years E. None of these

10. Seven years later from now A will be as old as B was 4 years ago. C was born 2 years ago. The average age of A, B and C 10 years later will be 33yrs. What is the present age of A?

A. 30 years B. 28 years C.31 years D. 29 years E. None of these

11. P's age 8 years ago is equal to the sum of the present ages of his son and his daughter.5 years hence, the ratio between his daughter's age and his son's age will be 7 : 6 respectively. P's wife is 7 years elder than him. His wife's present age is thrice the present age of his son. What is his daughter's present age?

A. 18 years B. 20 years C. 23 years D. 28 years E. None of these

12. The present average age of a group of 60 athletes is 50% more than the average age of the 60 athletes 5 years ago. The average age of the group will become Y, if two new athletes of 22 year and 38 years join the group. Find the value of Y.

A. 14.44 B. 17.54 C. 15.48 D. 16 E. None of these

13. The ratio between the present ages of Amon and Chan is 3 : 4. The ratio of Bevan's age after 5 years to Chan's age 1 year ago is 4 : 3 and four times the difference in ages of Chan and Amon is one more than the age of Bevan. Find the average of the present ages of Amon and Chan.

A. 20 years B. 10 years C. 14 years D. 15 years E. None of these

14. Present age of son and mother are in ratio 3 : 8. Four years ago ratio of daughters age to Mothers age was 1 : 9. When the son was born the ratio of age of mother and father was 5:6. If the present age of daughter is 8 years, find the average age of family just before the daughter is born.

A. 28 years B. 30 years C. 25.33 years D. 27.67 years E. 22.33 years

15. 10 years ago, Elephant was five times older than Giraffe . Five years from now, the age of Elephant will be twice the age of the Giraffe. What was the ratio of the age of Elephant and Giraffe five years ago?

A. 5:1 B. 3:1 C. 1:4 D. 2:5 E. 3:7

16. Gautam's present age is equal to 20% of his father's age 15 years ago and Gaurav's present age(brother of Gautam), is 60% of his father's age ten years ago. If the sum of Gautam's present age and Gaurav 's present age is 31, then find their fathers present age?

A. 45 years B. 50 years C. 35 years D. 40 years E. None of these

17. Ratio of present age of Amit's father and Amit's mother is 20 : 17. Amit was born when the ratio of his father's age and mother's age was 10 : 7. Find the ratio of Amit's present age and his mother's age after 9 years if Amit's present age lies between 25 and 35. (Given that Age of all the members are Integers.)

A. 1:2 B. 2:3 C. 3:4 D. 2:5 E. 1:3

18. Sum of age of Pert and Qui is 10 more than twice the age of Rachee and sum of ages Pert and Sam is 5 more than twice the age of Rachee. If the average age of Qui and Sam is 25.5 years and average of all four is 27 years, find the age difference between Rachee and Pert.

A. 3 years B. 9 years C. 5 years D. 7 years E. 11 years

19. If x years ago, Sachin's age was four times to the age of his daughter, and x years hence, Sachin's age will be twice the age of his daughter, find the ratio of the present ages of Sachin and his daughter.

A. 7:5 B. 5:1 C. 5:2 D. 5:3 E. 7:3

- 20. 19 years ago, the average age of a woman and her daughter was 47.5 years. At present, two times of the woman's age is equal to five times of the daughter's age. 19 years hence, what will be the age of daughter?

 A. 38 years
 B. 34 years
 C. 57 years
 D. 51 years
 E. None of these
- 21. 10 years ago, respective ratio of the age of mother and daughter was 4 : 1. 10 years hence, the respective ratio of the age of mother and daughter will become 2 : 1. At present, what is the sum of their age?

A. 80 years B. 90 years C. 50 years D. 70 years E. None of these

22. The average age of a man's wife, and his twin daughters is 45 years. The ratio of the age of wife and a daughter is 5 : 1. What is the age of father?

A. 112.5 v	vears B. 120	years C. 125 years	S D. 80 years	E. Can't be determined
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23. At present, the ratio of the age of A to B is 4 : 5. Five years ago, the ratio of the age of B to C was 3 : 2. Five years hence, the age of C become 30 years , then at present what is the age of A?

A. 24 years B. 28 years C. 32 years D. 36 years E. None of these

24. X years ago, Rohini's age was one fourth of the age of her father. X years hence, Rohini's age will become half of the age of her father. At present, Rohini's age is what percent of her father's age?

A. 33.33% B. 30% C. 60% D. 50% E. None of these

25. The average age of a family of 5 members was 32 years. 3 years later, the oldest member of the family died at the age of 60. On the same day, a child was born in the family. What would be the average age of the family 20 years after the death of the oldest member?

A. 52 yea	s B. 43	years C. 47	years D. 50	years E. 55	years
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26. A father stated, "thrice my father's age is 7 times my age. And my son's age is cube root of my age. Also, nine years ago, my age was one-third of my father's age then." Find the ratio between the age of the father's father, the father's son and the father himself is

A. 21:2:3 B. 14:2:9 C. 7:1:3 D. 21:1:9 E. None of these

27. Radha's present age is 1/6th of her mother's age. Radha's mother's age will be thrice of Mohan's age after 12 years. If Mohan's 8th birthday was celebrated 4 years ago, then what is the Radha's mother's present age ?

A. 54 years B. 60 years C. 10 years D. 36 years E. None of these

28. The present average age of four friends A, B, C and D is 40.5 years. Age of A after two years will be 50% of the age of D 6 years hence. Present ages of A and B are in the ratio of 4 : 5 respectively. Present ages of C and D are in the ratio of 5 : 6 respectively. Find the present average age of B and C.

A. 40 years	B. 34 years	C. 28 years	D. 52 years	E. None of these
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29. Present average age of Kavita and Sonika is 'x' years. Ratio of the age of Kavita one year ago to the age of Mona four years hence will be 1 : 2. Present average age of Kavita, Mona and Sonika is 22 years. Find the value of 'x' if the present age of Kavita is 16 years.

A. 28	B. 26	C. 24	D. 20	E. 16
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30. The average age of the hostel boys increases by 10% when the ages of a warden and a new boy are added, while it remains the same when only the age of the boy is added. If the age of the new boy is 'x' and the warden's age is (2x + 8) and there were 15 boys initially, then find the initial average age of the hostel.

A. 20.42 B. 11.42 C. 16.42 D. 15.42 E. None of these

31. The average present age of three members of a family is 50 years. After 3 years, son got married and average age of the family became 47 years, then find the age of the son's wife at the time of marriage.

A. 25 years B. 27 years C. 29 years D. 31 years E. 33 years

32. The present ages of P and Q are in the ratio 3 : 4 respectively. The ages of R and Q, 4 years hence would be in the ratio of 5 : 4 respectively. S's present age is _____ and he is 8 years elder to R. The average of present ages of P, Q, R and S is 28 years.

A. 34 years B. 35 years C. 36 years D. 39 years E. None of these

33. The average age of four friends Sanju, Manju, Tanjul and Raju is 34 years. The ratio of age of Sanju 4 years from now and the present age of Manju is 3 : 2 respectively. The ratio of present age of Tanjul and present age of Raju is 2 : 3 respectively. Find the present age of Sanju if it is known that Raju is 8 years younger than Sanju.

A. 24 yearsB. 32 yearsC. 36 yearsD. 44 yearsE. 48 years

34. The average age of the employees of an office, having 'y' employees was 48 years. Two employees aged 53 and x respectively, resigned from office. So a new employee joins the office aged 34. Next year in the same month the average age of the 9 employees was found to be 46 years. If there were 10 employees initially, then find the value of x.

A. 56 B. 53 C. 57 D. 61 E. None of these

35. The respective ratio of age of Govind four years before to the age of Shankar 4 years after is 1 : 2, and ratio of present age of Govind to the present age of Bhanumati is 4 :
3. If the average present age of Shankar and Bhanumati is 27 years, then find the present age of Bhanumati.

A. 18 yearsB. 24 yearsC. 30 yearsD. 36 yearsE. 12 years

36. The present ages of Radha and Ram are in the ratio 4 : 5. After 'y' years the ratio of their ages becomes 9 : 11 and (y + 2) years ago the ratio of their ages was 13 : 17. Find

the sum of their ages after 'y' years.

A. 76 years B. 80 years C. 84 years D. 88 years E. None of these

37. The age of Monu was six - fifth of his wife Monika's age at the time of marriage. When Monika was born his Father Mohan was 32 years old and at the time of Monika's marriage he was three times of her age. At present Mohan is 85 years old, then what is the present average age of Monu and his wife Monika?

A. 52.4 years B. 54.6 years C. 58.8 years D. 48.6 years E. None of these

38. The age of three friends Doraemon, Nobita and Shizuka is (x + 3) years, (y - 2) years, and (y - x + 17) years respectively. If the ratio of age of Doraemon to Nobita is 9 : 8 respectively, and the ratio of age of Nobita to Shizuka is 4 : 5 respectively, then find the average age of three friends.

A. 16 years B. 18 years C. 20 years D. 24 years E. None of these

39. There are four friends A, B, C and D. Five years ago the ages of A and B was in the ratio of 5: 8 respectively. 10 years hence, the ages of C and D will be in the ratio 9: 10 respectively. Present age of A is 25% less than the present age of D. Find the difference between the ages of B and C if the average present age of A, B, C and D is 37 years 6 months.

A. 5 years B. 8 years C. 10 years D. 12 years E. None of these

40. There are three members in a family, Karan, his son Ajay and Ajay's wife Kajal. At the time of Ajay's wedding, the average of the age of these three was 38 yrs. After some time Karan died and at the same time, Ajay's daughter Kalpana was born. The average age of Ajay, Kajal and Kalpana 10 years after their wedding is 25. If the age of Karan at the time of wedding of Ajay was 62yrs, at what age did he die?

A. 71 years B. 67 years C. 69 years D. 73 years E. None of these

41. A family of five people has average age equal to 50 yrs in 2011. In 2016 the eldest person in the family died and at the same time a new baby was born. Later, in 2020 the average age of the family is 45 yrs. What would have been the age of the eldest person of the family in 2020, had he been alive?

A. 74 years B. 72 years C. 68 years D. 75 years E. None of these

42. At present, the respective ratio of the sum and the difference of the age of son and grandfather is 5: 4. Five years later, the respective ratio of the age of son and grandfather becomes 1:5. What is the difference between the age of grandfather and that of son?

A. 50 years B. 45 years C. 42 years D. 48 years E. None of these

43. Ratio of age of Ram to Shyam is 5 : 3 and that of Ram to Radha is 2 : 3. Difference in

ages of Radha and Shyam is 27 years. Find the average of their present ages.

A. 34 years B. 33 years C. 32 years D. 31 years E. None of these

44. At present, the sum of the ages of A, B and C is 150 years, whereas 10 years ago, the ratio of their age was 5 : 4 : 3. Find the ratio of their ages 10 years hence.

A. 7 : 5 : 3 B. 7 : 6 : 5 C. 4 : 3 : 5 D. 6 : 9 : 5 E. None of these

45. 8 years ago, the ratio of A's age and B's age was 13 : 5. Six years hence, the ratio of A's age and B's age would be 33 : 17. At present, what is the ratio of the sum of their ages to the difference of their ages?

A. 15 : 7 B. 11 : 4 C. 5 : 3 D. 4 : 1 E. None of these

46. The average age of Zaheer and Nehra is 50% of the average age of Bala Ji, Srisanth and Harbhajan. The average age of Bala Ji and Srisanth is 35 years. If Harbhajan replaces Bala Ji, the average age becomes 32 years and if Harbhajan replaces Srisanth, then the average age becomes 38 years. Find the average age of all the five players.

A. 27 years B. 28 years C. 35 years D. 39 years E. None of these

47. The ratio of the age of Sonny and Aarav is 4 : 5. Punit is 5 years elder than Aarav and 8 years elder than Sonny. Find the sum of the ages of all the 3 people after 5 years from now?

A. 60 years B. 62 years C. 58 years D. 65 years E. 64 years

48. Ratio of age of Aishwarya 5 years ago and the age of Abhishek 7 years hence is 3 : 4. Twice the present age of Aishwarya is twice the age of Abhishek two years hence. Find the present age of Aishwarya

A. 33 years B. 31 years C. 34 years D. 42 years E. 35 years

49. Rahul is 8 years older than Manish while Manish is 6 years older than Sonu. If the ratio of the age of Sonu to the age of Rahul is 5: 12, then what will be the age of Manish after 12 years?

A. 26 years B. 24 years	C. 28 years	D. 27 years	E. 30 years
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50. At present, the ratio of A's to B's age is 4 : 5. 10 years before, the ratio was 19 : 25. If C is 12 years older than A , then at present what is the average of the age (in years) of A, B and C together?

A. 56 B. 54 C. 48 D. 44 E. None of these

ANSWERS

1	В	11	С	21	D	31	С	41	А
2	Α	12	С	22	E	32	D	42	Е
3	D	13	С	23	В	33	D	43	D
4	С	14	С	24	E	34	Α	44	В
5	D	15	В	25	В	35	Α	45	В
6	В	16	В	26	D	36	В	46	В
7	Α	17	А	27	В	37	В	47	В
8	С	18	D	28	Α	38	В	48	E
9	Α	19	С	29	D	39	С	49	С
10	В	20	С	30	В	40	С	50	А