PROBLEM BASED ON AGES

Problems on Ages – Concept and Basics

- The problems based on age asked in the quantitative section are kind of brain teasers, which when read at first may seem to be complex, but when solved step by step are easy to answer.
- Questions from this section mostly are asked for 2-3 marks but there are chances of age-based questions being asked as a part of the data sufficiency or data interpretation. So it is important that the concept is clear to each and every candidate.
- As the name suggests, the questions are word problems based on the ages of the people. They may be asked in equation form or direct form.

- Important Formulas :
- Given below are a few formulas related to the problems on ages which may help to answer the questions quicker and also get a better idea of the concept:
- If you are assuming the current age to be x, then the age after n years will be (x+n) years.
- If you are assuming the current age to be x, then the age before n years will be (x-n) years.
- If the age is given in the form of a ratio, for example, p:q, then the age shall be considered as qx and px
- If you are assuming the current age to be x, then n times the current age will be (x×n) years
- If you are assuming the current age to be x, then 1/n of the age shall be equal to (x/n) years

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Q 1. The age of Arvind's father is 4 times his age. If 5 years ago, father's age was 7 times of the age of his son at that time, what is Arvind's father's present age?

(1) 84 years

(2) 70 years

(3) 40 years

(4) 35 years

(5) None of these

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Q 1. The age of Arvind's father is 4 times his age. If 5 years ago, father's age was 7 times of the age of his son at that time, what is Arvind's father's present age?

(1) 84 years

(2) 70 years

(3) 40 years

(4) 35 years

(5) None of these

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Q 2. The age of Ramesh is four times the age of Suresh. After ten years, the age of Ramesh will be only twice the age of Suresh. Find the present age of Suresh.

(1) 10 years

(2) 11 years

(3) 12 years

(4) 5 years

(5) None of these

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Q 2. The age of Ramesh is four times the age of Suresh. After ten years, the age of Ramesh will be only twice the age of Suresh. Find the present age of Suresh.

(1) 10 years

(2) 11 years

(3) 12 years

(4) 5 years

(5) None of these

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Q 3. 10 years ago Chandravati's mother was 4 times older than her daughter. After 10 years, the mother will be twice older than the daughter. The present age of Chandravati is :

(1) 5 years

(2) 10 years

(3) 20 years

(4) 30 years

(5) None of these

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Q 3. 10 years ago Chandravati's mother was 4 times older than her daughter. After 10 years, the mother will be twice older than the daughter. The present age of Chandravati is :

(1) 5 years

(2) 10 years

(3) 20 years

(4) 30 years

(5) None of these

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Q 4. 14 years ago Ram was 4 times the age of Pankaj. If the present age of Ram is twice the age of Pankaj, what will be the total of their present ages?

(1) 42 years

(2) 63 years

(3) 62 years

(4) 48 years

(5) None of these

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Q 4. 14 years ago Ram was 4 times the age of Pankaj. If the present age of Ram is twice the age of Pankaj, what will be the total of their present ages?

(1) 42 years

(2) 63 years

(3) 62 years

(4) 48 years

(5) None of these

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Q 5. At present the age of the father is 3 times the age of his son, 9 years hence the fathers' age would be twice that of his son. What is the sum of the present ages of father and his son?

(1) 36 years

(2) 38 years

(3) 32 years

(4) 46 years

(5) None of these

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Q 5. At present the age of the father is 3 times the age of his son, 9 years hence the fathers' age would be twice that of his son. What is the sum of the present ages of father and his son?

(1) 36 years

(2) 38 years

(3) 32 years

(4) 46 years

(5) None of these

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Q 6. The sum of the ages of a father and a son is 50 years. Also, 5 years ago, the father's age was 7 times the age of the son. The present ages of the father and the son respectively, are :

(1) 35 years, 15 years

(2) 40 years, 10 years

(3) 38 years, 12 years

(4) 42 years, 8 years

(5) None of these

PROBLEM BASED ON AGES

Q 6. The sum of the ages of a father and a son is 50 years. Also, 5 years ago, the father's age was 7 times the age of the son. The present ages of the father and the son respectively, are :

(1) 35 years, 15 years

(2) 40 years, 10 years

(3) 38 years, 12 years

(4) 42 years, 8 years

(5) None of these

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Q 7. The sum of the ages of a son and father is 56 years. After four years, the age of the father will be three times that of the son. Their ages respectively are :

(1) 12 years, 44 years

(2) 16 years, 48 years

(3) 16 years, 42 years

(4) 18 years, 6 years

(5) None of these

PROBLEM BASED ON AGES

Q 7. The sum of the ages of a son and father is 56 years. After four years, the age of the father will be three times that of the son. Their ages respectively are :

(1) 12 years, 44 years

(2) (2) 16 years, 48 years

(3) (3) 16 years, 42 years

(4) 18 years, 6 years

(5) None of these

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Q 8. The ratio of the ages of father and son at present is 6 : 1. After 5 years, the ratio will become 7 : 2. The present age of the son is :

(1) 10 years

(2) 9 years

(3) 6 years

(4) 5 years

(5) None of these

PROBLEM BASED ON AGES

Q 8. The ratio of the ages of father and son at present is 6 : 1. After 5 years, the ratio will become 7 : 2. The present age of the son is :

(1) 10 years

(2) 9 years

(3) 6 years

(4) 5 years

(5) None of these

PROBLEM BASED ON AGES

Q 9. The ratio of the ages of A and B at present is 4 : 3. 10 years earlier, the ratio was 3 : 2, then find the present ages of A and B (in years).

(1) 40, 30

(2) 48, 36

(3) 64, 48

(4) 20, 15

(5) None of these

PROBLEM BASED ON AGES

Q 9. The ratio of the ages of A and B at present is 4 : 3. 10 years earlier, the ratio was 3 : 2, then find the present ages of A and B (in years).

(1) 40, 30

(2) 48, 36

(3) 64, 48

(4) 20, 15

(5) None of these

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Q 10. The ratio of the ages of A and B at present is 5 : 3. After 7 years the ratio will become 3 : 2. What is the sum of the present ages of A and B?

(1) 46 years

(2) 48 years

(3) 56 years

(4) 58 years

(5) None of these

PROBLEM BASED ON AGES

Q 10. The ratio of the ages of A and B at present is 5 : 3. After 7 years the ratio will become 3 : 2. What is the sum of the present ages of A and B?

(1) 46 years

(2) 48 years

(3) 56 years

(4) 58 years

(5) None of these

PROBLEM BASED ON AGES

Q 11. If the product of the present ages of A and B is 750 years and the ratio of their present ages is 6 : 5. Find the difference between their present ages.

(1) 10 years

(2) 15 years

(3) 8 years

(4) 5 years

(5) None of these

PROBLEM BASED ON AGES

Q 11. If the product of the present ages of A and B is 750 years and the ratio of their present ages is 6 : 5. Find the difference between their present ages.

(1) 10 years

(2) 15 years

(3) 8 years

(4) 5 years

(5) None of these

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Q 12. If the ratio of the ages of A and B at present is 2 : 1. 6 years earlier, the ratio was 3 : 1. What is the sum of the present ages of A and B?

(1) 24 years

(2) 26 years

(3) 34 years

(4) 6 years

(5) None of these

PROBLEM BASED ON AGES

Q 12. If the ratio of the ages of A and B at present is 2 : 1. 6 years earlier, the ratio was 3 : 1. What is the sum of the present ages of A and B?

(1) 24 years

(2) 26 years

(3) 34 years

(4) 6 years

(5) None of these

PROBLEM BASED ON AGES

Q 13. The ratio of P's and Q's ages is 5 : 7. If the difference between the present age of Q and the age of P 6 years hence is 2, what is the total of present ages of P and Q?

(1) 52 years

(2) 48 years

(3) 56 years

(4) Data inadequate

(5) None of these

PROBLEM BASED ON AGES

Q 13. The ratio of P's and Q's ages is 5 : 7. If the difference between the present age of Q and the age of P 6 years hence is 2, what is the total of present ages of P and Q?

(1) 52 years

(2) 48 years

(3) 56 years

(4) Data inadequate

(5) None of these

PROBLEM BASED ON AGES

Q 14. The product of the ages of Harish and Seema is 240. If twice the age of Seema is more than Harish's age by 4 years, what is Seema's age in years?

(1) 12 years

(2) 20 years

(3) 10 years

(4) 14 years

(5) None of these

PROBLEM BASED ON AGES

Q 14. The product of the ages of Harish and Seema is 240. If twice the age of Seema is more than Harish's age by 4 years, what is Seema's age in years?

(1) 12 years

(2) 20 years

(3) 10 years

(4) 14 years

(5) None of these

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Q 15. Jayesh is twice as old as Vijay and half as old as Suresh. If the sum of Suresh's and Vijay's ages is 85 years, what is Jayesh's age in years?

(1) 34

(2) 36

(3) 68

(4) Can't say

(5) None of these

PROBLEM BASED ON AGES

Q 15. Jayesh is twice as old as Vijay and half as old as Suresh. If the sum of Suresh's and Vijay's ages is 85 years, what is Jayesh's age in years?

(1) 34

(2) 36

(3) 68

(4) Can't say

(5) None of these

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Q 16. The ratio of the present ages of a son and his father is 1 : 5 and that of his mother and father is 4 : 5. After 2 years the ratio of the age of the son to that of his mother becomes 3 : 10. What is the present age of the father?

(1) 30 years

(2) 28 years

(3) 35 years

(4) 30 years

(5) None of these

PROBLEM BASED ON AGES

Q 16. The ratio of the present ages of a son and his father is 1 : 5 and that of his mother and father is 4 : 5. After 2 years the ratio of the age of the son to that of his mother becomes 3 : 10. What is the present age of the father?

(1) 30 years

(2) 28 years

(3) 35 years

(4) 30 years

(5) None of these

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Q 17. 15 years hence, A will be twice as old as B, but five years ago A was 4 times as old as B. Find the difference of their present ages.

(1) 15 years

(2) 45 years

(3) 30 years

(4) 25 years

(5) None of these

PROBLEM BASED ON AGES

Q 17. 15 years hence, A will be twice as old as B, but five years ago A was 4 times as old as B. Find the difference of their present ages.

(1) 15 years

(2) 45 years

(3) 30 years

(4) 25 years

(5) None of these

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Q 18. A says to B "I am twice as old as you were when I was as old as you are." The sum of their ages is 63 years. Find the difference of their ages.

(1) 27 years

(2) 12 years

(3) 9 years

(4) 6 years

(5) None of these

PROBLEM BASED ON AGES

Q 18. A says to B "I am twice as old as you were when I was as old as you are." The sum of their ages is 63 years. Find the difference of their ages.

(1) 27 years

(2) 12 years

(3) 9 years

(4) 6 years

(5) None of these

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Q 19. A is as much younger than B as he is older than C. If the sum of B's and C's ages is 40 years. Find the age of A.

(1) 20 years

(2) 25 years

(3) 30 years

(4) 27 years

(5) None of these

PROBLEM BASED ON AGES

Q 19. A is as much younger than B as he is older than C. If the sum of B's and C's ages is 40 years. Find the age of A.

(1) 20 years

(2) 25 years

(3) 30 years

(4) 27 years

(5) None of these

PROBLEM BASED ON AGES

Q 20. A is twice as old as B was two years ago. If the difference in their ages be 2 years, find A's age.

(1) 14 years

(2) 18 years

(3) 8 years

(4) 12 years

(5) None of these

PROBLEM BASED ON AGES

Q 20. A is twice as old as B was two years ago. If the difference in their ages be 2 years, find A's age.

(1) 14 years

(2) 18 years

(3) 8 years

(4) 12 years

(5) None of these

PROBLEM BASED ON AGES

Q 21. In ten years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B. Find the present age of B.

(1) 39 years

(2) 40 years

(3) 36 years

(4) 49 years

(5) None of these

PROBLEM BASED ON AGES

Q 21. In ten years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B. Find the present age of B.

(1) 39 years

(2) 40 years

(3) 36 years

(4) 49 years

(5) None of these

PROBLEM BASED ON AGES

Q 22. Five years ago, the total of the ages of father and son was 60 years. The ratio of their present ages is 4 : 1. Then the present age of the father is _____.

(1) 48 years

(2) 51 years

(3) 56 years

(4) 61 years

(5) None of these

PROBLEM BASED ON AGES

Q 22. Five years ago, the total of the ages of father and son was 60 years. The ratio of their present ages is 4 : 1. Then the present age of the father is _____.

(1) 48 years

(2) 51 years

(3) 56 years

(4) 61 years

(5) None of these

PROBLEM BASED ON AGES

Q 23. Two years ago, A was four times as old as B. 8 years hence, A's age will exceed B's age by 12 years. The ratio of the present ages of A and B is_____.

(1) 3 : 1

(2) 4 : 1

(3) 3 : 2

(4) 5 : 1

(5) None of these

PROBLEM BASED ON AGES

Q 23. Two years ago, A was four times as old as B. 8 years hence, A's age will exceed B's age by 12 years. The ratio of the present ages of A and B is_____.

(1) 3 : 1

(2) 4 : 1

(3) 3 : 2

(4) 5 : 1

(5) None of these

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Q 24. If C's age is twice the average age of A, B and C. A's age is one half the average of A, B and C. If B is 5 years old, the average age of A, B and C is _____.

(1) 10 years

(2) 15 years

(3) 12 years

(4) 9 years

(5) None of these

PROBLEM BASED ON AGES

Q 24. If C's age is twice the average age of A, B and C. A's age is one half the average of A, B and C. If B is 5 years old, the average age of A, B and C is _____.

(1) 10 years

(2) 15 years

(3) 12 years

(4) 9 years

(5) None of these

PROBLEM BASED ON AGES

Q 25. A father's age is three times the sum of the ages of his two children, but 20 years hence his age will be equal to the sum of their ages. Then the father's age is _____.

(1) 30 years

(2) 40 years

(3) 5 years

(4) 45 years

(5) None of these

PROBLEM BASED ON AGES

Q 25. A father's age is three times the sum of the ages of his two children, but 20 years hence his age will be equal to the sum of their ages. Then the father's age is _____.

(1) 30 years

(2) 40 years

(3) 5 years

(4) 45 years

(5) None of these

PROBLEM BASED ON AGES

Q 26. A father's age is four times as much as the sum of the ages of his three children but 6 years hence his age will be only double the sum of their ages. Then the age of the father is _____.

(1) 30 years

(2) 40 years

(3) 60 years

(4) 45 years

(5) None of these

PROBLEM BASED ON AGES

Q 26. A father's age is four times as much as the sum of the ages of his three children but 6 years hence his age will be only double the sum of their ages. Then the age of the father is _____.

(1) 30 years

(2) 40 years

(3) 60 years

(4) 45 years

(5) None of these

PROBLEM BASED ON AGES

Q 27. The total ages of A, B and C at present is 90 years. Ten years ago the ratio of their ages was 1 : 2 : 3. Then the present age of B is _____.

(1) 30 years

(2) 20 years

(3) 40 years

(4) 45 years

(5) None of these

PROBLEM BASED ON AGES

Q 27. The total ages of A, B and C at present is 90 years. Ten years ago the ratio of their ages was 1 : 2 : 3. Then the present age of B is _____.

(1) 30 years

(2) 20 years

(3) 40 years

(4) 45 years

(5) None of these

PROBLEM BASED ON AGES

Q 28. 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 father's age at that time. The present ages of the father and son respectively are _____ and _____ years.

(1) 39, 6

(2) 35, 10

(3) 36, 9

(4) 40, 10

(5) None of these

PROBLEM BASED ON AGES

Q 28. 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 father's age at that time. The present ages of the father and son respectively are _____ and _____ years.

(1) 39, 6

(2) 35, 10

(3) 36, 9

(4) 40, 10

(5) None of these

PROBLEM BASED ON AGES

Q 29. The ratio of the father's and son's age is 7 : 4. The product of their ages is 1008. The ratio of their ages after 6 years hence will be _____.

(1) 5 : 3

(2) 8 : 5

(3) 7 : 4

(4) 5 : 8

(5) None of these

PROBLEM BASED ON AGES

Q 29. The ratio of the father's and son's age is 7 : 4. The product of their ages is 1008. The ratio of their ages after 6 years hence will be _____.

(1) 5 : 3

(2) 8 : 5

(3) 7 : 4

(4) 5 : 8

(5) None of these

PROBLEM BASED ON AGES

Q 30. If 6 years are subtracted from the present age of Randheer and the remainder is divided by 18, then the present age of his grandson Anup is obtained. If Anup is 2 years younger to Mahesh whose age is 5 years, then what is the age of Randheer?

(1) 96 years

(2) 84 years

(3) 48 years

(4) 60 years

(5) None of these

PROBLEM BASED ON AGES

Q 30. If 6 years are subtracted from the present age of Randheer and the remainder is divided by 18, then the present age of his grandson Anup is obtained. If Anup is 2 years younger to Mahesh whose age is 5 years, then what is the age of Randheer?

(1) 96 years

(2) 84 years

(3) 48 years

(4) 60 years

(5) None of these

THANK YOU