

PROBLEMS BASED ON AGES

Generally problems based on ages are asked in all competitive examinations. These questions are solved with the help of Algebra. Therefore, the knowledge of equations is essential for this. But simple formulae are also helpful in solving some problems.

Essential points :

- 1- If the present age of A is x years, the age of A, n years ago was $(x - n)$ years and the age of A after n years will be $(x + n)$ years.
- 2- The present ages of A and B are x years and y years respectively. If the age of A is 3 times the age of B, then the equation will be as follows :

$$x = 3y$$

or,

$$x - 3y = 0$$

Some Unsolved Examples

Example 1- The ratio between the present ages of Naveen and Prabhat is 4 : 5. If after 5 years the ratio of the present age of Prabhat and the age of Prabhat at that time is 7 : 8, what will be the ratio between the present age of Naveen and Naveen's age after 4 years ?

Example 2- Pushpa was married 6 years ago. Her present age is $1\frac{1}{4}$ times of the age at the time of her marriage. Her son's age is $\frac{1}{10}$ th of her present age. What is the present age of her son ?

Example 3- Atul is 30 years younger than his uncle today. 5 years ago Atul $\frac{1}{4}$ th as old as his uncle. How old will Atul's uncle be 5 years from today ?

Example 4- Age of Satish who is 40 years old, is $\frac{4}{7}$ times of Madan and Madan is older than Ajay by 50 years. If Vijay's age is just between the age of Ramesh and Ajay and Ramesh is 30 years old, what is age of Vijay ?

Example 5- If from the present age of Guljar 6 years is subtracted and the remainder is divided by 18, the result is the present age of his grandson Anup. If Anup is 2 years younger to Mahesh and Mahesh at present is 5 years old, what is the present age of Guljar ?

EXERCISE

1. The ratio between the present ages of Sudhir and Madan is 4 : 5. If after five years the ratio of their ages becomes 5 : 6, what is the present age of Sudhir ?
(a) 18 years (b) 20 years
(c) 22 years (d) 21 years
(e) None of these
2. 5 years ago, the age of Lata was two times the age of Arun. 10 years hence from today the age of Lata will be $\frac{4}{3}$ times the age of Arun. What is the present age of Lata ?
(a) 20 years (b) 22 years
(c) 24 years (d) 18 years
(e) None of these
3. The ratio between the present ages of Kunal and Ganesh is 3 : 5. If 4 years hence Kunal will be younger than Ganesh by 12 years, what is the present age of Kunal ?
(a) 17 years (b) 19 years
(c) 22 years (d) 16 years
(e) None of these

4. If a son is younger than his father by 25 years and the father was 45 years old 4 years ago, what will be the total age of the father and son after 5 years ?
- (a) 82 years (b) 88 years
(c) 83 years (d) 78 years
(e) None of these
5. The sum of the ages of Yogesh, Prakash and Sameer is 93 years. 10 years ago the ratio of their ages was 2 : 3 : 4. What is the present age of Sameer?
- (a) 32 years (b) 24 years
(c) 34 years (d) 42 years
(e) None of these
6. After 6 years Pradhan's age will be $\frac{3}{7}$ times the age of his father. 10 years ago the ratio in the age of Pradhan and his father was 1 : 5. What is the present age of Pradhan's father ?
- (a) 40 years (b) 50 years
(c) 56 years (d) Data is inadequate
(e) None of these
7. The age ratio in the ages of A and B, 1 year ago was 3 : 4. While it will be 5 : 6 after 1 year. What is the present age of B ?
- (a) 3 years (b) 4 years
(c) 6 years (d) Data is inadequate
(e) None of these
8. The ratio in the ages of Vimal and Aruna is 3 : 5 and the sum of their ages is 80 years. What will be the ratio in their ages after 10 years ?
- (a) 3 : 2 (b) 3 : 5
(c) 2 : 3 (d) 1 : 2
(e) None of these

9- The age of Sushil 6 years ago was three times the age of Snehal. 6 years

hence the age of Sushil would be $\frac{5}{3}$ times that of Snehal. What is the present age of Snehal ?

- | | |
|-------------------|--------------|
| (a) 14 years | (b) 22 years |
| (c) 18 years | (d) 21 years |
| (e) None of these | |

10- The ratio in the present ages of Ramesh and Jayesh is 3 : 2. Four years ago

Ramesh's age was more than jayesh's age by 6 years. What is the present age of Jayesh ?

- | | |
|-------------------|------------------------|
| (a) 18 years | (b) 12 years |
| (c) 6 years | (d) Data is inadequate |
| (e) None of these | |

Answer Key

1. b

2. a

3. a

4. c

5. e

6. b

7. e

8. c

9. e

10. b

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