

## Problems on Ages

### Important Formulas on "Problems on Ages" :

1. If the current age is  $x$ , then  $n$  times the age is  $nx$ .
  2. If the current age is  $x$ , then age  $n$  years later/hence =  $x + n$ .
  3. If the current age is  $x$ , then age  $n$  years ago =  $x - n$ .
  4. The ages in a ratio  $a : b$  will be  $ax$  and  $bx$ .
  5. If the current age is  $x$ , then  $\frac{1}{n}$  of the age is  $\frac{x}{n}$ .
  6. In ages it is always Elder age – Younger age. No negative values in ages.
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1. The ratio of ages of Sita and Geeta is 4:3. The sum of their ages is 28 years. The ratio of their ages after 8 years will be ?
  2. The ratio of ages of Mr Sunil and his son is 6:1. After 5 years, the ratio will be 7:2. What is the present age of Mr Sunil?
  3. At present Srinu is 8 years older than Suresh. After 15 years, Suresh will be 40 years old. What is Srinu's present age?
  4. The ratio of ages of A and B is 5:3 and the sum of their ages is 32 years. What will be the ratio of their ages after 16 years?
  5. The ratio between the ages of Sudha and Radha is 5:8. The difference between their ages after 6 years will be 9 years. Find the present age of Radha?
  6. The ages of a father and his daughter are in the ratio 4:1. If 5 years ago their ages were in the ratio 7:1, what is the present age of the father.
  7. Tarun is 27 years younger than his mother Rojaramani. 6 years hence, Tarun will be  $\frac{1}{4}$ <sup>th</sup> as old as his mother. Find the present age of Rojaramani.
  8. Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev?

9. The ages of two persons differ by 16 years. If 6 years ago, the elder one be 3 times as old as the younger one. Find their present ages?

10. Five years ago, the total of the ages of a father and son was 40 years. The ratio of their present age is 4:1. What is the present age of the father.

11. Five years hence, the total age of father and son is 45. The ratio of their present age is 4:1. The present age of the son is?

12. 10 years ago, Soumya's mother was 4 times older than her daughter. After 10 years, the mother will be twice older than her daughter. The present age of Soumya is ?

13. The average age of Husband and Wife was 23 years, when they were married 5 years ago. But now the average age of the husband, wife and the child is 20 years. What is the present age of the child?

14. The average age of class of 10 students is 15 years. When the age of the teacher is also included, the average will be increased by 1 year. What is the age of the teacher?

15. Sneha's age is  $\frac{1}{6}$ <sup>th</sup> of her father's age. Sneha's father's age will be twice of Vimala's age after 10 years. If Vimala's 8<sup>th</sup> birthday was celebrated 2 years before, then what is Sneha's present age.

16. A is 4 times as old as B. 3 years hence, the sum of their ages will be 41 years. What is the age of A?

17. In 8 years, the age of Suresh will be 4 times, what he was 13 years ago. What is his present age?

18. 3 years ago Pavan was twice as old as Peter. If the difference of their ages is 4 years, how old is Peter now?