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# Problem on Ages: Concepts, Solved Examples, & Preparation Strategies

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The problem on age is purely based on your ability to handle the linear equation. There are some situations in which the ages of two or more persons are compared with the ratio, fraction or percentage. Then in that case, we could correlate the entire situation to the short tricks of ratio. The main challenge in handling the age's questions is your ability to bifurcate which data is of present and which one is of past and which one is of future. In this article, we are going to cover the key concepts and Problem on Ages along with the various types of questions, and tips and tricks. We have also added a few solved examples, which candidates will find beneficial in their exam preparation. Read the article thoroughly to clear all the doubts regarding the same.

Once you've mastered Problems on Ages, Also, learn more about [Profit and Loss](#) concepts in depth!

## Types of Questions from Problems on Ages

Various types of questions come up in different government competitive exams. Some of them are as follows.

### Ratio and Sum of Ages Given

If the ratio of present age of A and B is  $x : y$  and their sum of present age is  $P$ , then

$$A = \frac{x}{(x+y)} \times P \text{ and } B = \frac{y}{(x+y)} \times P$$

### Ratio and Product of Ages Given under Problem on Ages

In this type of question the ratio and the product of ages will be given. Candidates have to use those to conclude the final result.

### Ratio of Present and Future Ages Given

In this type of question the ratio of present and the future ages will be given. Candidates have to use those to conclude the final result.

### Ratio of Past and Present Ages Given

In this type of question the ratio of past and the present ages will be given. Candidates have to use those to conclude the final result.

**Tip # 1:** If the current age is  $x$ , then  $n$  times the age is  $nx$ .

**Tip # 2:** If the current age is  $x$ , then the age  $n$  years later/hence  $= x + n$

**Tip # 3:** If the current age is  $x$ , then age  $n$  years ago  $= x - n$

**Tip # 4:** The ages in a ratio  $a:b$  will be  $ax$  and  $bx$

**Tip # 5:** If the current age is  $x$ , then  $1/n$  of the age is  $x/n$

When you've finished with Problems on Ages, you can read about [Ration and Proportion](#) concepts in depth here!

## Problems on Ages Solved Sample Questions

**Question 1:** If the ratio of present age of Ashutosh and Vishal is  $9 : 4$  and their sum of present age is 52 years, find the present age of Vishal.

**Solution:** Let, age of Ashutosh be  $9x$  and age of Vishal be  $4x$  Then, sum of both ages  $= 9x + 4x = 13x$

$$\Rightarrow 13x = 52$$

$$\Rightarrow x = 4 \text{ years}$$

$$\therefore \text{Age of Vishal} = 4x = 4 \times 4 = 16 \text{ years}$$

**Question 2:** Product of present age of Ram and Lakshaman is 2223 years and their present age ratio is  $19:13$  find the difference age of Ram and Lakshaman.

**Solution:** Let, age of Ram be  $19x$  and age of Lakshaman be  $13x$  Then, product of their ages  $= 19x \times 13x = 247x^2$

$$\Rightarrow 247x^2 = 2223$$

$$\Rightarrow x^2 = 9$$

$$\Rightarrow x = 3$$

$$\text{Hence, required difference} = 19x - 13x = 6x = 6 \times 3 = 18 \text{ years}$$

**Question 3:** The ratio of present age A and B is  $13:10$  after 2.5 years their ratio will be  $32:25$  then find the present age of A.

**Solution:** Let, present age of A  $= 13x$  and present age of B  $= 10x$  According to question:

$$(13x + 2.5)/(10x + 2.5) = 32/25$$

$$\Rightarrow (13x + 2.5) \times 25 = (10x + 2.5) \times 32$$

**Question 4:** If 5 years ago, the ratio of age of Mradul and Love was 1 : 2 and after 15 years from present their ratio would be 5 : 6. Find the age of Love after 20 years.

**Solution:** Let, present age of Mradul be  $x$  and present age of Love be  $y$ .

Then, according to question  $(x - 5)/(y - 5) = 1/2$

$$\Rightarrow 2x - 10 = y - 5$$

$$\Rightarrow x = (y + 5)/2 \text{--- (1)}$$

$$\text{Also, } (x + 15)/(y + 15) = 5/6$$

$$\Rightarrow 6x + 90 = 5y + 75$$

$$\Rightarrow 6x + 15 = 5y$$

Putting value of  $x$  from equation 1, we get  $3y + 15 + 15 = 5y$

$$\Rightarrow 2y = 30$$

$$\Rightarrow y = 15$$

$\therefore$  Age of Love after 20 years =  $15 + 20 = 35$  years.

If you've learned Problems on Ages, you can move on to [Simplification and Approximation](#) concepts.

## Exams where Problem on Ages is Part of Syllabus

Questions based on problems on age come up often in various prestigious government exams some of them are as follows.

- [SBI PO](#), [SBI Clerk](#), [IBPS PO](#), [IBPS Clerk](#)
- [SSC CGL](#), [SSC CHSL](#), [SSC MTS](#)
- [LIC AAO](#), [LIC ADO](#)
- [RRB NTPC](#), [RRB ALP](#)
- [UPSC](#)
- [MPSC](#)
- [KPSC](#)
- [BPSC](#)
- [WBPS](#)
- Other State Level Recruitment Examinations



hesitate to contact us for any doubts or queries regarding the same. You can also download the [eBook on App](#), which is absolutely free and start preparing for any government competitive examination by taking the mock tests before the examination to boost your preparation.

**If you are checking Problem of Ages article, also check the related maths articles in the table below:**

|  |                               |
|--|-------------------------------|
| <a href="#">Find Roots of Quadratic Equation</a> | <a href="#">Pie Diagram</a>   |
| <a href="#">Differential Calculus</a>            | <a href="#">Number Series</a> |
| <a href="#">Linear Algebra</a>                   | <a href="#">Time and Work</a> |

## Problem on Ages FAQs

### Q.1 What is the Problem on Ages?

**Ans.1** The Problem on Ages is purely based on your ability to handle the linear equation. There are some situations in which the ages of two or more persons are compared with the ratio, fraction or percentage.

### Q.2 How many types of problems on age questions are there?

**Ans.2** Important types of questions related to problems on age can be found above in the article.

### Q.3 How to solve the problem related to problem on ages?


**Ans.3** Tips and tricks to solve the problems related to problems on age are given above in the article. Kindly go through the article for the same.


### Q.4 Where I will find some of the sample questions related to problems on age?


**Ans.4** Various example questions along with their solutions are given above in the article. Kindly go through the article for the same.


### Q.5 In which exam questions from problems on ages come up?

**Ans.5** Problems on ages based questions come in various government competitive examinations on a regular basis. The names of such examinations are given above in the article.

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