

Aptitude-Age-Problems

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<https://rtpnotes.vercel.app>

☰ Reference Playlist

<https://youtube.com/playlist?list=PL8p2I9GkIV454LdGfDOW0KkNazKuA-6B2&feature=shared>

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Question 1

The ages of Kamal and Vimal are in the ratio 3:2, after 5 years, the ratio of their ages will be 4:3. Find the present age of each

- Given
 - $k/v = 3/2$
 - After 5 years, $k+5/v+5 = 4/3$
- $k = (3/2)v$
- $(3/2)v + 5 / v + 5 = 4/3$
- $(9/2)v + 15 = 4v + 20$

- $v = 10$
- $k = 15$



Question 2

The sum of the ages of man and his son is 100 years, 5 years ago, their ages were in the ratio 2:1. What will be the ratio of their ages after 10 years

- $X = \text{age of man}$
- $Y = \text{age of son}$
 - $X+Y = 100$
 - $X-5/Y-5 = 2:1$
 - $X+10 / y+10 = ?$
- $X-5 = 2Y - 10$
- $X = 100 - Y$
 - $100 - Y - 5 = 2Y - 10$
 - $95 - Y = 2Y - 10$
 - $105 = 3Y \Rightarrow Y = 105/3 = 35$
- $X + Y = 100 \Rightarrow X + 35 = 100 \Rightarrow X = 65$
- $65 + 10 / 35 + 10 \Rightarrow 75/45 = 5/3$



Question 3

Anil is as much younger to Deepak as he is older to Vikas. If the total of the ages of Deepak and Vikas is 52 years, how old is anil?

- Given
 - $A = \text{Anil}$
 - $D = \text{Deepak}$
 - $V = \text{Vikas}$
 - $D - A = A - V$
 - $D + V = 52$

- $D+V = 2A$
- $2A = 52$
- $A = 26$
- **Anils age is 26**



Question 4

Kamala got married 6 years ago. Today her age is $1\frac{1}{4}$ times her age at the time of marriage. Her sons age is $\frac{1}{10}$ times her age. What is the present age of her son?

- $1\frac{1}{4} = \frac{5}{4}$
- Let age of Kamala before 6 years be X
- Let her present age be $X + 6$
- Given $X + 6 = X \times \frac{5}{4}$
- $X+6 = \frac{5X}{4}$
- $6 = \frac{5X}{4} - X$
- $6 = X / 4$
- $24 = X$
- Kamalas present age = $24 + 6 = 30$
- Age of her son = $30/10 = 3$ years



Question 5

A man is 6 times as old as his son. Three years ago, his age was 9 times his son's age at that time. Find the present age of each.

- Given
 - Let Age of Man be X
 - Let Age of Son be Y
 - $X = 6Y$
 - $X-3 = 9(Y-3)$
 - $6Y - 3 = 9Y - 27$

- $24 = 3Y$
- $Y = 24/3 \Rightarrow Y = 8$
- $X = 8 \times 6 = 48$
- Man's present age = 48 years
- Son's present age = 8 years



Question 6

The ratio of a man's age to his son's age is 4 : 1. The product of their ages is 196. What will be the ratio of their ages after 5 years ?

- Given
 - Let Mans age = X
 - Sons age = Y
 - $X/Y = 4/1$
 - $XY = 196$
 - $X + 5 / Y + 5 = ?$
- $X = 4Y$
- $4Y \times Y = 196$
 - $4Y^2 = 196 \Rightarrow Y^2 = 49$
 - $Y = 7$
 - $X = 4 \times 7 = 28$
- $X + 5 / Y + 5 = 33 / 12 = 11 / 4$



Question 7

Fifteen years hence, a man will be just four times as old as he was 15 years ago. His present age is ?

- Let the man's present age = x years
- Fifteen years ago his age = (x-15) years
- Fifteen years hence his age = (x+15) years

- Given, $(x+15)=4(x-15)$
 - $\Rightarrow x+15=4x-60$
 - $\Rightarrow 4x-x=15+60$
 - $\Rightarrow 3x=75$
 - $\Rightarrow x=25$
- \therefore man's present age is 25 years.



Question 8

A girl is twice as old as her brother and half as old as his father. After 22 years, her brother's age will be half of her father's age. What is the present age of the girl?

- Given
 - Girls age = G
 - Boys age = B
 - Fathers Age = F
 - $G = 2B$
 - $F = 2G$
 - $F+22 = 2 \times (B+22)$
- Converting everything in terms of G and solving
 - $2G + 22 = 2 \times (G/2 + 22)$
 - $2G + 22 = G + 44$
 - $G = 22$
- Age of the girl is 22



Question 9

Ram will be 32 years old in eight years from now. In 4 years, Ram's fathers age will be twice as Ram's age and two years ago, his mother's age will be twice as his age. What will be the present age of Ram's father and mother?

- Given
 - Rams present age = R, Fathers age = F, Mothers age = M

- $R + 8 = 32$
- $F + 4 = 2 \times (R+4)$
- $M - 2 = 2 \times (R-2)$
- $R = 24$
- $F + 4 = 2 \times 28 \Rightarrow F = 52$
- $M - 2 = 2 \times 22 \Rightarrow M - 2 = 44 \Rightarrow M = 46$
- **Fathers age = 52**
- **Mothers age = 46**