

PROBLEMS ON AGES

① The present age of Ravi is 35 years. What is the age of Ravi

① 5 years ago

② 5 years hence or after 5 years

Sol

∴ Present age = 35 yrs
Ravi

(5 years ago) - 5 : Ravi's age = $35 - 5 = 30$ yrs

(5 years hence) + 5 : Ravi's age = $35 + 5 = 40$ yrs

1) The ages of A and B are presently in the ratio of 3:5. Nine years ago this ratio will become 12:23. What is the present age of A?

- ~~a) 27 yrs~~ $27 - 9 = 18$ not a multiple of 12
~~b) 33 yrs~~ $33 - 9 = 24$
~~c) 49 yrs~~ not a multiple of 3
~~d) 55 yrs~~ " " "3
- | A | B |
|----|----|
| 3 | 5 |
| 12 | 23 |
- present age of A
 ∴ A's age = 33 yrs

$$\begin{array}{ccc|l}
 & m & D & \\
 0: & 7 & : & 1 \\
 -4: & 19 & : & 1
 \end{array} \left| \begin{array}{l} \text{4 years ago mother's} \\ \text{age} \\ -4: m = \end{array} \right.$$

2) The respective ratio of the present age of a mother and daughter is 7:1. Four years ago the respective ratio of their age was 19:1. What will be the mother's age four years from now?

- ~~a)~~ 42 yrs $-4 = 38$ (Not a multiple of 7)
- ~~b)~~ 38 yrs $-4 = 34$ (Not a multiple of 7)
- ✓ c) 46 yrs $-4 = 42$ (multiple of 7)
- ~~d)~~ 36 yrs $-4 = 32$ (Not a multiple of 7)

Aug \rightarrow 3 (4) 5

A B C
3 : 4 : 5
└──┬──┘
10 yrs

$$5P - 4P = 10$$

$$1P = 10 \text{ yrs}$$

$$A + C = 3P + 5P = 8P$$

3) Average age of A, B and C is 10 year less than age of C. If the ratio of age of A, B and C is 3:4:5 then what is the sum of age of A and C?

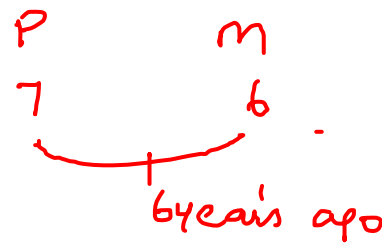
☒ a) 80 yrs

b) 72 yrs

c) 85 yrs

d) 78 yrs

$$= 8 \times 10 = 80 \text{ yrs}$$



$$-3 : \text{son} = 3$$

$$0 : \text{son} = 3 + 3 = 6$$

4) Sushil got married 6 years ago. His age is $\frac{7}{6}$ times of his age at the time of his marriage. Three years ago, his son was 3 years old. The ratio of his son and Sushil at present is?

a) 1:6

☒ b) 1:7

c) 2:7

d) 6:1

P	M
42	36

Present (0):

son : Sushil

$$6 : 42$$

$$1 : 7$$

5) Sunitha's age is $\frac{1}{6}$ of her father age. Her father's age will be twice of Varun's age after 10 years. If varun's eight birthday was celebrated two years ago, then what is Sunitha's present age?

a) 30 yrs

b) 24 yrs

c) 6 yrs

☒ d) 5 yrs

	S	F	V
0:	$\frac{1}{6} \times 30 = 5$	$30 (40 - 10)$	$8 + 2 = 10$
+10:		$2 \times 20 = 40$	$10 + 10 = 20$

6) The sum of the ages of 5 children born at the intervals of 3 years each is 50 years. Find out the age of the youngest child?

a) 6 yrs

b) 5 yrs

☒ c) 4 yrs

d) 3 yrs

$$x, x+3, x+6, x+9, x+12$$

$$\text{Avg} = \frac{\Sigma 5}{5} = \frac{50}{5} = 10 \text{ yrs}$$

$$x+6 = 10$$

$$x = 10 - 6 = 4 \text{ yrs}$$