Problems on Ages

(Find Present Age) ↷ Pattern

Important Note

Extremely Easy!

Question No 1

$$R = 3S$$

$$(R-2) = 5(S-2)$$

$$R - 2 = 5S - 10$$

$$R = 5S - 8$$

$$\therefore 3S = 5S - 8$$

$$8 = 2S$$

$$\therefore \boxed{S = 4}$$

$$\boxed{R = 12}$$

Question No 2

$$(P-12) = 3(Q-12)$$

$$\therefore P - 12 = 3Q - 36$$

$$\therefore P = 3Q - 36 + 12$$

$$P = (3Q - 24)$$

$$\boxed{P = 36 \text{ years}}$$

$$P = (3Q - 24)$$

$$\frac{Q+12}{P+12} = \frac{2}{3}$$

$$\therefore 3(Q+12) = 2(3Q-12)$$

$$\therefore 36 = 3Q - 24$$

$$\boxed{Q = 20 \text{ yrs}}$$

Question NO 3

$M < R = A$

$R - M = A - R$

$2R - M = A$

$A + M = 108$

$2R = A + M$ ~~$- 2R$~~

$2R = 108$

$\boxed{R = 54}$

Question NO 4

$A = A$

$R = 5A$ $\quad R = \frac{7}{18} \times M$

$M = \frac{18}{7} \times R$

$A + 5A + \frac{90}{7} A = 132$

$6A + \frac{90}{7} A = 132$

$\therefore (42 + 90) A = 132 \times 7$

$\therefore 132 A = 132 \times 7$

$\boxed{A = 7 \text{ yrs}}$

$R = 35 yrs$

$M = 18 \times 5$
$= 90 yrs$

83 years younger.

Question NO 5

$\frac{R+S}{2} = 65$

$\frac{R+S+J}{3} = 53$

$65 \times 2 + J = 53 \times 3$

~~$65 \times 2 - 531$~~

$J = 159 - 130$

$\therefore J = 29 yrs$

Question NO 6

$\frac{S+T}{11} = 15$

$\frac{S}{7} = 15$

$\frac{S}{3} = 11$

$\frac{S}{7} + \frac{S}{3} = 15 + 11$

$\therefore \frac{10S}{21} = 26$

$\begin{array}{r} 26 \\ \times\ 21 \\ \hline 26 \\ 52\times \\ \hline 546 \end{array}$

$\begin{array}{r} 15 \\ \times\ 7 \\ \hline 105 \end{array}$

$\begin{array}{r} 105 \\ 33 \\ \hline 138 \end{array}$

$\begin{array}{r} 15 \\ \times\ 11 \\ \hline 15 \\ 15\times \\ \hline \end{array}$

Question NO 7

$$\frac{F}{4} = 36$$

$F_1 = 6$

$$\begin{array}{r} 36 \\ \times\ 4 \\ \hline 144 \end{array}$$

$F_1 + F_2 + F_3 + F_4 = 144$

$\therefore \quad F_2 + F_3 + F_4 = 138$

$$3\overline{)138}\ 46$$

-12

18

-18

0

$46 - 6 = 40$ years

Question NO 8

$$\frac{M}{4} = 19$$

$M = 80$ (Present)

$$\begin{array}{r} 19 \\ \times\ 4 \\ \hline 76 \end{array}$$

$$\frac{8020}{4}$$

$Av_4 = 19$

$\frac{S_4}{4} = 19$

$S_4 = 76 \text{ years}$

$4 \times 4 = 16$

$76 + 16 = 92$

$\frac{S_4 + K}{5} = \cancel{92}\ 19$

$\frac{92 + K}{5} = 19$

$\therefore \boxed{K = 3 \text{ yrs}}$