

12. let ravi's present age = x years
according to condition

$$x + 15 = 4x$$

$$\Rightarrow 4x - x = 15$$

$$\Rightarrow 3x = 15$$

$$\Rightarrow x = \frac{15}{3} = 5$$

\therefore Ravi's present age = 5 years

13. let rational number be x
according to condition

$$\frac{5}{2}x + \frac{2}{3} = -\frac{7}{12}$$

$$(\times 12) \quad \frac{5}{2}x \times 12 + \frac{2}{3} \times 12 = -\frac{7}{12} \times 12$$

$$\Rightarrow 30x = -7 - 8$$

$$\Rightarrow x = -\frac{15}{30}$$

$$\Rightarrow x = -\frac{1}{2}$$

\therefore required rational no. $-\frac{1}{2}$