

## Class VIII - Unit 4

$$\textcircled{62} \quad \frac{x}{2} - \frac{1}{4} \left( x - \frac{1}{3} \right) = \frac{1}{6} (x+1) + \frac{1}{12}$$

$$\Rightarrow \frac{x}{2} - \frac{1}{4} \left( \frac{3x-1}{3} \right) = \frac{1}{6} (x+1) + \frac{1}{12}$$

$$\textcircled{\times 12} \quad \overset{6}{12} \times \frac{x}{2} - \overset{3}{12} \times \frac{1}{4} \left( \frac{3x-1}{3} \right) = \overset{2}{12} \times \frac{1}{6} (x+1) + \overset{1}{12} \times \frac{1}{12}$$

$$\Rightarrow 6x - (3x-1) = 2(x+1) + 1$$

$$\Rightarrow 6x - 3x + 1 = 2x + 2 + 1$$

$$\Rightarrow 3x + 1 = 2x + 3$$

$$\Rightarrow 3x - 2x = 3 - 1$$

$$\Rightarrow x = 2$$

$$\textcircled{63} \quad \frac{1}{2} (x+1) + \frac{1}{3} (x-1) = \frac{5}{12} (x-2)$$

$$\textcircled{\times 12} \quad \overset{6}{12} \times \frac{1}{2} (x+1) + \overset{4}{12} \times \frac{1}{3} (x-1) = \overset{1}{12} \times \frac{5}{12} (x-2)$$

$$\Rightarrow 6x + 6 + 4x - 4 = 5x - 10$$

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

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

$$\Rightarrow 5x = -12$$

$$\Rightarrow x = -\frac{12}{5}$$

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