

$$8. \quad \frac{2x}{3} + 1 = \frac{7x}{15} + 3$$

$$(\times 15) \quad \frac{2x}{\cancel{3}_1} \times \overset{5}{\cancel{15}} + 1 \times 15 = \frac{7x}{\cancel{15}_1} \times \overset{1}{\cancel{15}} + 3 \times 15$$

$$\Rightarrow 10x + 15 = 7x + 45$$

$$\Rightarrow 10x - 7x = 45 - 15$$

$$\Rightarrow 3x = 30$$

$$\Rightarrow x = \frac{\cancel{30}^{10}}{\cancel{3}_1}$$

$$\Rightarrow x = 10$$

$$9. \quad 2y + \frac{5}{3} = \frac{26}{3} - y$$

$$(\times 3) \quad 2y \times 3 + \frac{5}{\cancel{3}_1} \times \overset{1}{\cancel{3}} = \frac{26}{\cancel{3}_1} \times \overset{1}{\cancel{3}} - y \times 3$$

$$\Rightarrow 6y + 5 = 26 - 3y$$

$$\Rightarrow 6y + 3y = 26 - 5$$

$$\Rightarrow 9y = 21$$

$$\Rightarrow y = \frac{\cancel{21}^7}{\cancel{9}_3}$$

$$\Rightarrow y = \frac{7}{3}$$