

1 次の方程式を解きなさい。

$$\textcircled{1} \quad \frac{4x+4}{5} = \frac{6x+4}{7}$$

$$\textcircled{2} \quad \frac{2}{3}x+2 = \frac{3}{5}x+4$$

$$\textcircled{3} \quad \frac{5x+1}{4} = \frac{7x+3}{6}$$

$$\textcircled{4} \quad \frac{1}{6}x+1 = \frac{1}{7}x+2$$

$$\textcircled{5} \quad \frac{7x+1}{3} = \frac{9x+2}{4}$$

$$\textcircled{6} \quad \frac{1}{2}x+1 = \frac{1}{7}x+6$$

1 次の方程式を解きなさい。

$$\textcircled{1} \quad \frac{4x+4}{5} = \frac{6x+4}{7}$$

$$\left(\frac{4x+4}{\cancel{5}_1}\right) \times \overset{7}{\cancel{35}} = \left(\frac{6x+4}{\cancel{7}_1}\right) \times \overset{5}{\cancel{35}}$$

$$28x + 28 = 30x + 20$$

$$28x - 30x = 20 - 28$$

$$-2x = -8$$

$$x = 4$$

$$\textcircled{2} \quad \frac{2}{3}x + 2 = \frac{3}{5}x + 4$$

$$\left(\frac{2}{3}x + 2\right) \times 15 = \left(\frac{3}{5}x + 4\right) \times 15$$

$$10x + 30 = 9x + 60$$

$$10x - 9x = 60 - 30$$

$$x = 30$$

$$\textcircled{3} \quad \frac{5x+1}{4} = \frac{7x+3}{6}$$

$$\left(\frac{5x+1}{\cancel{4}_1}\right) \times \overset{3}{\cancel{12}} = \left(\frac{7x+3}{\cancel{6}_1}\right) \times \overset{2}{\cancel{12}}$$

$$15x + 3 = 14x + 6$$

$$15x - 14x = 6 - 3$$

$$x = 3$$

$$\textcircled{4} \quad \frac{1}{6}x + 1 = \frac{1}{7}x + 2$$

$$\left(\frac{1}{6}x + 1\right) \times 42 = \left(\frac{1}{7}x + 2\right) \times 42$$

$$7x + 42 = 6x + 84$$

$$7x - 6x = 84 - 42$$

$$x = 42$$

$$\textcircled{5} \quad \frac{7x+1}{3} = \frac{9x+2}{4}$$

$$\left(\frac{7x+1}{\cancel{3}_1}\right) \times \overset{4}{\cancel{12}} = \left(\frac{9x+2}{\cancel{4}_1}\right) \times \overset{3}{\cancel{12}}$$

$$28x + 4 = 27x + 6$$

$$28x - 27x = 6 - 4$$

$$x = 2$$

$$\textcircled{6} \quad \frac{1}{2}x + 1 = \frac{1}{7}x + 6$$

$$\left(\frac{1}{2}x + 1\right) \times 14 = \left(\frac{1}{7}x + 6\right) \times 14$$

$$7x + 14 = 2x + 84$$

$$7x - 2x = 84 - 14$$

$$5x = 70$$

$$x = 14$$