

一次方程式の解き方（分数をふくむ）

NO.3

学習日 月 日

名前

/ 点

■ 次の方程式を解きなさい。

$$(1) \quad \frac{2}{3}x + 1 = \frac{x - 1}{2}$$

$$(2) \quad \frac{x - 2}{3} = \frac{x - 4}{5}$$

$$(3) \quad \frac{x + 4}{2} - \frac{x}{3} = 1$$

$$(4) \quad x = \frac{1}{3}x + 4$$

$$(5) \quad \frac{3x + 1}{4} = \frac{x + 5}{2}$$

解答

$$\begin{aligned}
 (1) \quad & \frac{2}{3}x + 1 = \frac{x - 1}{2} \\
 & 4x + 6 = 3(x - 1) \\
 & 4x + 6 = 3x - 3 \\
 & 4x - 3x = -3 - 6 \\
 & x = -9
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{x - 2}{3} = \frac{x - 4}{5} \\
 & 5(x - 2) = 3(x - 4) \\
 & 5x - 10 = 3x - 12 \\
 & 5x - 3x = -12 + 10 \\
 & 2x = -2 \\
 & x = -1
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \frac{x + 4}{2} - \frac{x}{3} = 1 \\
 & 3(x + 4) - 2x = 6 \\
 & x + 12 = 6 \\
 & x = -6
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & x = \frac{1}{3}x + 4 \\
 & 3x = x + 12 \\
 & 2x = 12 \\
 & x = 6
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & \frac{3x + 1}{4} = \frac{x + 5}{2} \\
 & 3x + 1 = 2(x + 5) \\
 & 3x + 1 = 2x + 10 \\
 & 3x - 2x = 10 - 1 \\
 & x = 9
 \end{aligned}$$