
一次方程式の解き方（分数をふくむ）

NO.1

学習日 月 日

名前

/ 点

■ 次の方程式を解きなさい。

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

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

$$(3) \quad \frac{x}{2} - \frac{x}{6} = 4$$

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

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

解答

$$\begin{aligned}
 (1) \quad & \frac{x}{2} + 1 = 4 \\
 & x + 2 = 8 \\
 & x = 8 - 2 \\
 & x = 6
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{2}{3}x - 1 = 5 \\
 & 2x - 3 = 15 \\
 & 2x = 15 + 3 \\
 & 2x = 18 \\
 & x = 9
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \frac{x}{2} - \frac{x}{6} = 4 \\
 & 3x - x = 24 \\
 & 2x = 24 \\
 & x = 12
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \frac{x}{3} = \frac{x - 4}{5} \\
 & 5x = 3(x - 4) \\
 & 5x = 3x - 12 \\
 & 5x - 3x = -12 \\
 & 2x = -12 \\
 & x = -6
 \end{aligned}$$

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