

比例式応用 2

NO.2

学習日 月 日

名前

/ 点

■ 次の方程式を解きなさい。

$$(1) \quad x : (12 - x) = 2 : 1$$

$$(2) \quad x : (10 - x) = 3 : 2$$

$$(3) \quad 0.5 : 1.5 = 4 : x$$

$$(4) \quad \frac{1}{2} : \frac{1}{3} = x : 6$$

$$(5) \quad 1.5 : 0.6 = x : 4$$

$$(6) \quad (x + 2) : x = 5 : 3$$

解答

$$\begin{aligned}(1) \quad x &: (12 - x) = 2 : 1 \\ x &= 2 (12 - x) \\ x &= 24 - 2x \\ 3x &= 24 \\ x &= 8\end{aligned}$$

$$\begin{aligned}(2) \quad x &: (10 - x) = 3 : 2 \\ 2x &= 3 (10 - x) \\ 2x &= 30 - 3x \\ 5x &= 30 \\ x &= 6\end{aligned}$$

$$\begin{aligned}(3) \quad 0.5 &: 1.5 = 4 : x \\ 5 &: 15 = 4 : x \\ 5x &= 15 \times 4 \\ 5x &= 60 \\ x &= 12\end{aligned}$$

$$\begin{aligned}(4) \quad \frac{1}{2} &: \frac{1}{3} = x : 6 \\ 3 &: 2 = x : 6 \\ 2x &= 3 \times 6 \\ 2x &= 18 \\ x &= 9\end{aligned}$$

$$\begin{aligned}(5) \quad 1.5 &: 0.6 = x : 4 \\ 15 &: 6 = x : 4 \\ 6x &= 15 \times 4 \\ 6x &= 60 \\ x &= 10\end{aligned}$$

$$\begin{aligned}(6) \quad (x + 2) &: x = 5 : 3 \\ 3(x + 2) &= 5x \\ 3x + 6 &= 5x \\ -2x &= -6 \\ x &= 3\end{aligned}$$