

## 1次方程式の解き方5-4

◆ 次の方程式を解きなさい。

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

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

$$(3) \quad \frac{7}{8}x + 4 = \frac{x - 2}{4}$$

$$(4) \quad \frac{x - 8}{3} = \frac{x - 2}{6}$$

$$(5) \quad -0.3x + 7 = 0.2x + 1.3$$

## 解答

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

$$5(4x - \frac{1}{5}) = 5 \times 1$$

$$20x - 1 = 5$$

$$20x = 5 + 1$$

$$20x = 6$$

$$x = \frac{3}{10}$$

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

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

$$3x = x + 3$$

$$3x - x = 3$$

$$2x = 3$$

$$x = \frac{3}{2}$$

$$(3) \quad \frac{7}{8}x + 4 = \frac{x - 2}{4}$$

$$8(\frac{7}{8}x + 4) = 8(\frac{x - 2}{4})$$

$$7x + 32 = 2x - 4$$

$$7x - 2x = -4 - 32$$

$$5x = -36$$

$$x = -\frac{36}{5}$$

$$(4) \quad \frac{x - 8}{3} = \frac{x - 2}{6}$$

$$6(\frac{x - 8}{3}) = 6(\frac{x - 2}{6})$$

$$2x - 16 = x - 2 \quad \#$$

$$2x - x = -2 + 16$$

$$\#\# \quad x = 14$$

$$x = 14 \quad \_$$

$$(5) \quad -0.3x + 7 = 0.2x + 1.3$$

$$10(-0.3x + 7) = 10(0.2x + 1.3)$$

$$-3x + 70 = 2x + 13$$

$$-3x - 2x = 13 - 70$$

$$-5x = -57$$

$$x = \frac{57}{5}$$