

# 1次方程式

年 組 名前

/14

■ 次の方程式を解きなさい。

①  $-\frac{1}{2}x + \frac{5}{6} = \frac{1}{12} - \frac{3}{4}x$

②  $-\frac{1}{7}x + 2 = \frac{1}{7} + \frac{3}{7}x$

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

④  $-\frac{1}{5}n - \frac{1}{15} = -\frac{2}{15} + \frac{4}{5}n$

⑤  $\frac{2}{3}y - \frac{5}{18} = -\frac{5}{6} + \frac{1}{6}y$

⑥  $\frac{3}{8}x + \frac{1}{8} = -\frac{1}{2} + \frac{1}{2}x$

⑦  $\frac{3}{4}x + \frac{1}{4} = -\frac{3}{4} - \frac{1}{6}x$

⑧  $-\frac{1}{2}b + \frac{1}{2} = -\frac{1}{10} - \frac{1}{5}b$

⑨  $-\frac{5}{6}n + \frac{1}{2} = -\frac{1}{18} + \frac{2}{3}n$

⑩  $\frac{3}{8} + \frac{1}{8}x = \frac{5}{8} + \frac{5}{16}x$

⑪  $-\frac{1}{2} - \frac{1}{2}x = \frac{1}{2} + \frac{1}{18}x$

⑫  $-\frac{5}{16}y - \frac{1}{2} = \frac{1}{2} - \frac{1}{2}y$

⑬  $\frac{1}{2}x - \frac{1}{2} = \frac{1}{2} - \frac{1}{10}x$

⑭  $\frac{2}{3}t + \frac{1}{3} = -\frac{1}{3} - \frac{5}{12}t$

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■ 次の方程式を解きなさい。

$$\textcircled{1} \quad -\frac{1}{2}x + \frac{5}{6} = \frac{1}{12} - \frac{3}{4}x$$

両辺に 12 をかけて

$$-6x + 10 = 1 - 9x$$

$$3x = -9$$

$$x = -3$$

$$\textcircled{2} \quad -\frac{1}{7}x + 2 = \frac{1}{7} + \frac{3}{7}x$$

両辺に 7 をかけて

$$-x + 14 = 1 + 3x$$

$$-4x = -13$$

$$x = \frac{13}{4}$$

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

両辺に 10 をかけて

$$6x - 5 = 5 - 5x$$

$$11x = 10$$

$$x = \frac{10}{11}$$

$$\textcircled{4} \quad -\frac{1}{5}n - \frac{1}{15} = -\frac{2}{15} + \frac{4}{5}n$$

両辺に 15 をかけて

$$-3n - 1 = -2 + 12n$$

$$-15n = -1$$

$$n = \frac{1}{15}$$

$$\textcircled{5} \quad \frac{2}{3}y - \frac{5}{18} = -\frac{5}{6} + \frac{1}{6}y$$

両辺に 18 をかけて

$$12y - 5 = -15 + 3y$$

$$9y = -10$$

$$y = -\frac{10}{9}$$

$$\textcircled{6} \quad \frac{3}{8}x + \frac{1}{8} = -\frac{1}{2} + \frac{1}{2}x$$

両辺に 8 をかけて

$$3x + 1 = -4 + 4x$$

$$-x = -5$$

$$x = 5$$

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

両辺に 12 をかけて

$$9x + 3 = -9 - 2x$$

$$11x = -12$$

$$x = -\frac{12}{11}$$

$$\textcircled{8} \quad -\frac{1}{2}b + \frac{1}{2} = -\frac{1}{10} - \frac{1}{5}b$$

両辺に 10 をかけて

$$-5b + 5 = -1 - 2b$$

$$-3b = -6$$

$$b = 2$$

$$\textcircled{9} \quad -\frac{5}{6}n + \frac{1}{2} = -\frac{1}{18} + \frac{2}{3}n$$

両辺に 18 をかけて

$$-15n + 9 = -1 + 12n$$

$$-27n = -10$$

$$n = \frac{10}{27}$$

$$\textcircled{10} \quad \frac{3}{8} + \frac{1}{8}x = \frac{5}{8} + \frac{5}{16}x$$

両辺に 16 をかけて

$$6 + 2x = 10 + 5x$$

$$-3x = 4$$

$$x = -\frac{4}{3}$$

$$\textcircled{11} \quad -\frac{1}{2} - \frac{1}{2}x = \frac{1}{2} + \frac{1}{18}x$$

両辺に 18 をかけて

$$-9 - 9x = 9 + x$$

$$-10x = 18$$

$$x = -\frac{9}{5}$$

$$\textcircled{12} \quad -\frac{5}{16}y - \frac{1}{2} = \frac{1}{2} - \frac{1}{2}y$$

両辺に 16 をかけて

$$-5y - 8 = 8 - 8y$$

$$3y = 16$$

$$y = \frac{16}{3}$$

$$\textcircled{13} \quad \frac{1}{2}x - \frac{1}{2} = \frac{1}{2} - \frac{1}{10}x$$

両辺に 10 をかけて

$$5x - 5 = 5 - x$$

$$6x = 10$$

$$x = \frac{5}{3}$$

$$\textcircled{14} \quad \frac{2}{3}t + \frac{1}{3} = -\frac{1}{3} - \frac{5}{12}t$$

両辺に 12 をかけて

$$8t + 4 = -4 - 5t$$

$$13t = -8$$

$$t = -\frac{8}{13}$$