

1次方程式

年 組 名前

/14

■ 次の方程式を解きなさい。

① $2x - \frac{3}{4} = -2 - \frac{1}{2}x$

 $x =$

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

 $x =$

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

 $s =$

④ $-\frac{1}{2}n + \frac{1}{6} = \frac{1}{2} + \frac{5}{6}n$

 $n =$

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

 $x =$

⑥ $\frac{7}{8}x - \frac{3}{8} = \frac{1}{2} + \frac{1}{2}x$

 $x =$

⑦ $-\frac{1}{8}y - \frac{5}{8} = \frac{5}{16} + \frac{3}{8}y$

 $y =$

⑧ $-\frac{1}{2}x + \frac{1}{2} = -\frac{4}{5} - \frac{1}{5}x$

 $x =$

⑨ $\frac{5}{12}m - \frac{1}{12} = \frac{1}{6} - \frac{1}{3}m$

 $m =$

⑩ $\frac{5}{8} + \frac{1}{4}x = 2 - \frac{5}{8}x$

 $x =$

⑪ $-\frac{1}{3} - \frac{1}{6}y = \frac{2}{3} - \frac{5}{6}y$

 $y =$

⑫ $\frac{1}{10}b + \frac{2}{5} = -\frac{1}{2} - \frac{1}{2}b$

 $b =$

⑬ $2x - \frac{1}{5} = -2 + \frac{2}{5}x$

 $x =$

⑭ $-\frac{5}{6}x + \frac{1}{2} = -\frac{5}{18} + \frac{4}{9}x$

 $x =$

■ 次の方程式を解きなさい。

$$\textcircled{1} \quad 2x - \frac{3}{4} = -2 - \frac{1}{2}x$$

両辺に 4 をかけて

$$8x - 3 = -8 - 2x$$

$$10x = -5$$

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

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

両辺に 12 をかけて

$$6x + 3 = 10 + 9x$$

$$-3x = 7$$

$$x = -\frac{7}{3}$$

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

両辺に 12 をかけて

$$-6s + 1 = 9 - 5s$$

$$-s = 8$$

$$s = -8$$

$$\textcircled{4} \quad -\frac{1}{2}n + \frac{1}{6} = \frac{1}{2} + \frac{5}{6}n$$

両辺に 6 をかけて

$$-3n + 1 = 3 + 5n$$

$$-8n = 2$$

$$n = -\frac{1}{4}$$

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

両辺に 12 をかけて

$$-3x - 4 = -6 + 6x$$

$$-9x = -2$$

$$x = \frac{2}{9}$$

$$\textcircled{6} \quad \frac{7}{8}x - \frac{3}{8} = \frac{1}{2} + \frac{1}{2}x$$

両辺に 8 をかけて

$$7x - 3 = 4 + 4x$$

$$3x = 7$$

$$x = \frac{7}{3}$$

$$\textcircled{7} \quad -\frac{1}{8}y - \frac{5}{8} = \frac{5}{16} + \frac{3}{8}y$$

両辺に 16 をかけて

$$-2y - 10 = 5 + 6y$$

$$-8y = 15$$

$$y = -\frac{15}{8}$$

$$\textcircled{8} \quad -\frac{1}{2}x + \frac{1}{2} = -\frac{4}{5} - \frac{1}{5}x$$

両辺に 10 をかけて

$$-5x + 5 = -8 - 2x$$

$$-3x = -13$$

$$x = \frac{13}{3}$$

$$\textcircled{9} \quad \frac{5}{12}m - \frac{1}{12} = \frac{1}{6} - \frac{1}{3}m$$

両辺に 12 をかけて

$$5m - 1 = 2 - 4m$$

$$9m = 3$$

$$m = \frac{1}{3}$$

$$\textcircled{10} \quad \frac{5}{8} + \frac{1}{4}x = 2 - \frac{5}{8}x$$

両辺に 8 をかけて

$$5 + 2x = 16 - 5x$$

$$7x = 11$$

$$x = \frac{11}{7}$$

$$\textcircled{11} \quad -\frac{1}{3} - \frac{1}{6}y = \frac{2}{3} - \frac{5}{6}y$$

両辺に 6 をかけて

$$-2 - y = 4 - 5y$$

$$4y = 6$$

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

$$\textcircled{12} \quad \frac{1}{10}b + \frac{2}{5} = -\frac{1}{2} - \frac{1}{2}b$$

両辺に 10 をかけて

$$b + 4 = -5 - 5b$$

$$6b = -9$$

$$b = -\frac{3}{2}$$

$$\textcircled{13} \quad 2x - \frac{1}{5} = -2 + \frac{2}{5}x$$

両辺に 5 をかけて

$$10x - 1 = -10 + 2x$$

$$8x = -9$$

$$x = -\frac{9}{8}$$

$$\textcircled{14} \quad -\frac{5}{6}x + \frac{1}{2} = -\frac{5}{18} + \frac{4}{9}x$$

両辺に 18 をかけて

$$-15x + 9 = -5 + 8x$$

$$-23x = -14$$

$$x = \frac{14}{23}$$