

**数学科 方程式マスター F-①**

( )組( )番 名前( )

次の方程式を解きなさい。

①  $\frac{5}{6}x - 1 = -\frac{5}{4}$

⑤  $\frac{5}{4}x - 1 = \frac{5}{8}$

②  $-2x - \frac{5}{6} = \frac{4}{3}$

⑥  $-3x + \frac{5}{6} = -\frac{3}{4}$

③  $\frac{6}{5}x - \frac{5}{4} = 2$

⑦  $\frac{5}{9}x + \frac{2}{3} = \frac{7}{3}$

④  $-\frac{7}{9}x - \frac{7}{2} = -\frac{5}{2}$

次の方程式を解きなさい。

④  
6と4の最小公倍数  
である24を両辺に  
かけて分母をはらおう!

①  $\frac{5}{6}x - 1 = -\frac{5}{4}$

$24(\frac{5}{6}x - 1) = 24 \times (-\frac{5}{4})$

$24 \times \frac{5}{6}x - 24 = -30$

$20x = -30 + 24$

$20x = -6$

$20x \div 20 = -6 \div 20$

$x = -\frac{6}{20}$

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

②  $-2x - \frac{5}{6} = \frac{4}{3}$

$6(-2x - \frac{5}{6}) = 6 \times \frac{4}{3}$

$-12x + 6 \times (-\frac{5}{6}) = 8$

$-12x - 5 = 8$

$-12x = 8 + 5$

$-12x = 13$

$-12x \div (-12) = 13 \div (-12)$

$x = -\frac{13}{12} \#$

③  $\frac{6}{5}x - \frac{5}{4} = 2$

$20(\frac{6}{5}x - \frac{5}{4}) = 20 \times 2$

$20 \times \frac{6}{5}x + 20 \times (-\frac{5}{4}) = 40$

$24x - 25 = 40$

$24x = 40 + 25$

$24x = 65$

$24x \div 24 = 65 \div 24$

$x = \frac{65}{24} \#$

④  $-\frac{7}{9}x - \frac{7}{2} = -\frac{5}{2}$

$18(-\frac{7}{9}x - \frac{7}{2}) = 18 \times (-\frac{5}{2})$

$18 \times (-\frac{7}{9}x) + 18 \times (-\frac{7}{2}) = -45$

$-14x - 63 = -45$

$-14x = -45 + 63$

$-14x = 18$

$-14x \div (-14) = 18 \div (-14)$

$x = -\frac{18}{14}$

$x = -\frac{9}{7} \#$

⑤  $\frac{5}{4}x - 1 = \frac{5}{8}$

$8(\frac{5}{4}x - 1) = 8 \times \frac{5}{8}$

$8 \times \frac{5}{4}x - 8 = 5$

$10x - 8 = 5$

$10x = 5 + 8$

$10x = 13$

$10x \div 10 = 13 \div 10$

$x = \frac{13}{10} \#$

⑥  $-3x + \frac{5}{6} = -\frac{3}{4}$

$12(-3x + \frac{5}{6}) = 12 \times (-\frac{3}{4})$

$-36x + 12 \times \frac{5}{6} = -9$

$-36x + 10 = -9$

$-36x = -9 - 10$

$-36x = -19$

$-36x \div (-36) = -19 \div (-36)$

$x = \frac{19}{36} \#$

⑦  $\frac{5}{9}x + \frac{2}{3} = \frac{7}{3}$

$9(\frac{5}{9}x + \frac{2}{3}) = 9 \times \frac{7}{3}$

$9 \times \frac{5}{9}x + 9 \times \frac{2}{3} = 21$

$5x + 6 = 21$

$5x = 21 - 6$

$5x = 15$

$5x \div 5 = 15 \div 5$

$x = 3 \#$