

高校入試 計算練習 1、2年生の問題

NO.6

名前

／10 点

1 次の計算をなさい。

① $-3 - (-15)$

② $-\frac{3}{5} \div \frac{7}{10}$

③ $18 \div (-3) + 5$

④ $(-3)^2 + 18 \div (-6)$

⑤ $\frac{1}{2}a - \frac{4}{5}a$

⑥ $12a^2b \div (-6ab) \times 3ab^2$

⑦ $3(x + 2y) - (5x - y)$

2 次の方程式を解きなさい

① $\frac{2}{5}x = 8$

② $3x - 8 = 7(x + 4)$

③
$$\begin{cases} 2x + 3y = -9 \\ -3x - 4y = 11 \end{cases}$$

解答

1

$$\textcircled{1} \quad -3 + 15 = 12$$

$$\textcircled{2} \quad -\frac{3}{5} \times \frac{10}{7} = -\frac{6}{7}$$

$$\textcircled{3} \quad -6 + 5 = -1$$

$$\textcircled{4} \quad 9 - 3 = 6$$

$$\textcircled{5} \quad \frac{5}{10}a - \frac{8}{10}a = -\frac{3}{10}a$$

$$\textcircled{6} \quad -\frac{12a^2b \times 3ab^2}{6ab} = -6ab$$

$$\textcircled{7} \quad 3x + 6y - 5x + y = -2x + 7y$$

2

$$\textcircled{1} \quad \begin{aligned} 2x &= 40 \\ x &= 20 \end{aligned}$$

$$\textcircled{2} \quad \begin{aligned} 3x - 8 &= 7x + 28 \\ -4x &= 36 \\ x &= -9 \end{aligned}$$

$$\textcircled{3} \quad \begin{cases} 2x + 3y = -9 & \dots\textcircled{1} \\ -3x - 4y = 11 & \dots\textcircled{2} \end{cases}$$

$$\textcircled{1} \times 3 + \textcircled{2} \times 2 \text{ で,}$$

$$6x + 9y = -27$$

$$\begin{array}{r} +) -6x - 8y = 22 \\ \hline y = -5 \end{array}$$

$$y = -5 \text{ を}\textcircled{1}\text{に代入して,}$$

$$2x + 3 \times (-5) = -9$$

$$2x = 6$$

$$x = 3$$

$$(x, y) = (3, -5)$$