

高校入試計算練習 1、2年生のまとめ

NO. 4

名前	
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／10 点

1 次の計算をなさい。

(1) $-5 \times (-11)$

(2) $(-\frac{3}{4}) \div \frac{1}{8}$

(3) $(-3) \times 2 + 8$

(4) $(-3)^2 + (-1)^3$

(5) $(-5a) - (-8a)$

(6) $4(2x - 3y) - 6(x - 2y)$

(7) $a^2 \times 10b^3 \div (-5ab)$

2 次の方程式を解きなさい

(1) $7x - 3 = -15 + 4x$

(2) $x - 4 = 8(x + 3)$

(3)
$$\begin{cases} 2x + 3y = 8 \\ 7x + 6y = 1 \end{cases}$$

解答

1

$$(1) \quad 55$$

$$(2) \quad \left(-\frac{3}{4}\right) \times 8 = \underline{-6}$$

$$(3) \quad -6 + 8 = 2$$

$$(4) \quad 9 + (-1) = \underline{8}$$

$$(5) \quad (-5a) + 8a = 3a$$

$$(6) \quad 8x - 12y - 6x + 12y = \underline{2x}$$

$$(7) \quad -\frac{10a^2b^3}{5ab} = \underline{-2ab^2}$$

2

$$(1) \quad \begin{aligned} 3x &= -12 \\ \underline{x} &= \underline{-4} \end{aligned}$$

$$(2) \quad \begin{aligned} x - 4 &= 8x + 24 \\ x - 8x &= 24 + 4 \\ -7x &= 28 \\ \underline{x} &= \underline{-4} \end{aligned}$$

$$(3) \quad \begin{aligned} 2x + 3y &= 8 && \dots \textcircled{1} \\ 7x + 6y &= 1 && \dots \textcircled{2} \end{aligned}$$

$$7x + 6y = 1 \quad \dots \textcircled{2}$$

$$\textcircled{1} \times 2 - \textcircled{2} \times 1 \text{ で,}$$

$$4x + 6y = 16$$

$$-) \quad \underline{7x + 6y = 1}$$

$$-3x = 15$$

$$\underline{x = -5}$$

$x = -5$ を①に代入して,

$$2 \times (-5) + 3y = 8$$

$$3y = 18$$

$$\underline{y = 6}$$

$$(x, y) = (-5, 6)$$