

# カエデ先生の数学完全攻略

## 中2数学【分配法則の計算】

年 月 日

---

●次の計算をしてください。

$$\begin{aligned}\textcircled{1} \quad & 2(3x + 4y) \\ &= 2 \times 3x + 2 \times 4y \\ &= 6x + 8y\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & 5(-2x + 3y - 7) \\ &= 5 \times -2x + 5 \times 3y + 5 \times (-7) \\ &= -10x + 15y - 35\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad & 2(4a - b + 5c) \\ &= 2 \times 4a + 2 \times (-b) + 2 \times 5c \\ &= 8a - 2b + 10c\end{aligned}$$

$$\begin{aligned}\textcircled{7} \quad & \frac{1}{2}(6x - 8y) \\ &= \frac{1}{2} \times 6x + \frac{1}{2} \times -8y \\ &= 3x - 4y\end{aligned}$$

$$\begin{aligned}\textcircled{9} \quad & (8x - 12y) \div (-4) \\ &= 8x \div (-4) - 12y \div (-4) \\ &= -2x + 3y\end{aligned}$$

$$\begin{aligned}\textcircled{11} \quad & (6x - 12y) \div (-8) \\ &= 6x \div (-8) - 12y \div (-8) \\ &= 6x \times \left(-\frac{1}{8}\right) - 12y \times \left(-\frac{1}{8}\right) \\ &= -\frac{3}{4}x + \frac{3}{2}y\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & -3(2x - y) \\ &= -3 \times 2x - 3 \times (-y) \\ &= -6x + 3y\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & -6(x - 2y + 5) \\ &= -6 \times x - 6 \times (-2y) - 6 \times 5 \\ &= -6x + 12y - 30\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & 8\left(\frac{1}{4}x + \frac{3}{2}y\right) \\ &= 8 \times \frac{1}{4}x + 8 \times \frac{3}{2}y \\ &= 2x + 12y\end{aligned}$$

$$\begin{aligned}\textcircled{8} \quad & (6x + 4y) \div 2 \\ &= 6x \div 2 + 4y \div 2 \\ &= 3x + 2y\end{aligned}$$

$$\begin{aligned}\textcircled{10} \quad & (-3x - 4y) \div \frac{1}{3} \\ &= -3x \div \frac{1}{3} - 4y \div \frac{1}{3} \\ &= -3x \times \frac{3}{1} - 4y \times \frac{3}{1} \\ &= -9x - 12y\end{aligned}$$

$$\begin{aligned}\textcircled{12} \quad & (-6a + 8b) \div \left(-\frac{4}{3}\right) \\ &= -6a \div \left(-\frac{4}{3}\right) + 8b \div \left(-\frac{4}{3}\right) \\ &= -6a \times \left(-\frac{3}{4}\right) + 8b \times \left(-\frac{3}{4}\right) \\ &= \frac{9}{2}a - 6b\end{aligned}$$