

# 式の計算（単項式の乗法・除法③）

組 番 名前

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad 4x \times (-2y) \\ = -8xy \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad -\frac{5}{3}b \times \frac{3}{10}a \\ = -\frac{3}{2}ab \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad -3m^2 \times (-4m) \\ = 12m^3 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{3}{8}b \times (-4a)^2 \\ = \frac{3}{8}b \times 16a^2 \\ = 6a^2b \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad (-18ab) \div 9a \\ = -2b \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 40x^2 \div (-2x) \\ = -20x \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad (-12xy^2) \div (-3xy) \\ = 4y \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad 16a^2b \div \frac{4}{5}b \\ = 16a^2b \times \frac{5}{4b} \\ = 20a^2 \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad \left(-\frac{4}{5}x^3y^2\right) \div \frac{8}{15}x^2y^2 \\ = -\frac{4x^3y^2}{15} \times \frac{15}{8x^2y^2} \\ = -\frac{3}{2}x \end{aligned}$$

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad 4xy \times 6y \div 2xy \\ = 24xy^2 \div 2xy \\ = 12y \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad (-12xy) \div 8x^2 \times (-2x) \\ = -\frac{3y}{2x} \times (-2x) \\ = 3y \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (-3a^2) \times (-2a) \div (-6a^2) \\ = 6a^3 \div (-6a^2) \\ = -a \end{aligned}$$

3  $x = -3$ ,  $y = 4$  のとき、次の式の値を求めなさい。

$$\begin{aligned} \textcircled{1} \quad 2(x+4y) + 3(x-2y) \\ = 2x+8y+3x-6y \\ = 5x+2y \\ 5 \times (-3) + 2 \times 4 = -15+8 \\ \underline{\underline{-7}} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 14x^2y \div (-7x) \\ = -2xy \\ -2 \times (-3) \times 4 = 24 \\ \underline{\underline{24}} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{x+2y}{3} - \frac{2x+y}{4} &= \frac{4x+8y}{12} - \frac{6x+3y}{12} \\ &= \frac{-2x+5y}{12} \\ -2 \times (-3) + 5 \times 4 &= \frac{6+20}{12} = \frac{26}{12} \\ &\underline{\underline{\frac{13}{6}}} \end{aligned}$$