

# 71

## 式の乗法・除法

年 組 番 名前

### ●例題1●

次の計算をなさい

$$\begin{aligned}
 &10x^2 \div 6xy \times 3y \\
 &= 10x^2 \times \frac{1}{6xy} \times 3y \quad \text{すべて積に} \\
 &= 5x \quad \rightarrow 56 \text{の例題2へ}
 \end{aligned}$$

問1 次の計算をなさい。

$$\begin{aligned}
 (1) &4x^2 \times 6xy^2 \div 8xy \\
 &= 4x^2 \times 6xy^2 \times \frac{1}{8xy} \\
 &= 3x^2y
 \end{aligned}$$

答.  $3x^2y$

$$\begin{aligned}
 (2) &3a \times (-4ab^2) \div 6ab \\
 &= 3a \times (-4ab^2) \times \frac{1}{6ab} \\
 &= -2ab
 \end{aligned}$$

答.  $-2ab$

$$\begin{aligned}
 (3) &6a^2b \div 3ab^2 \times (-b) \\
 &= 6a^2b \times \frac{1}{3ab^2} \times (-b) \\
 &= -2a
 \end{aligned}$$

答.  $-2a$

$$\begin{aligned}
 (4) &12a^2b^2 \div (-2a)^2 \\
 &= 12a^2b^2 \div 4a^2 \\
 &= 3b^2
 \end{aligned}$$

答.  $3b^2$

### ●例題2●

次の計算をなさい

$$\begin{aligned}
 &4(2x+5y) \\
 &= 4 \times 2x + 4 \times 5y \\
 &= 8x + 20y
 \end{aligned}$$

$a(b+c)$   
 $= ab + ac$   
 $\rightarrow 60 \text{の例題3へ}$

問2 次の計算をなさい。

$$\begin{aligned}
 (1) &3(5x-2y) \\
 &= 15x - 6y
 \end{aligned}$$

答.  $15x - 6y$

$$\begin{aligned}
 (2) &2(7x+4y-5) \\
 &= 14x + 8y - 10
 \end{aligned}$$

答.  $14x + 8y - 10$

$$\begin{aligned}
 (3) &-5(4a+b) \\
 &= -20a - 5b
 \end{aligned}$$

答.  $-20a - 5b$

$$\begin{aligned}
 (4) &-(3a-4b+7) \\
 &= -3a + 4b - 7
 \end{aligned}$$

答.  $-3a + 4b - 7$

### ●例題3●

次の計算をなさい

$$\begin{aligned}
 &(6x-9y) \div 3 \\
 &= (6x-9y) \times \frac{1}{3} \\
 &= 6x \times \frac{1}{3} - 9y \times \frac{1}{3} \\
 &= 2x - 3y \quad \rightarrow 60 \text{の例題4へ}
 \end{aligned}$$

問3 次の間に答えなさい

$$\begin{aligned}
 (1) &(12x-18y) \div 6 \\
 &= 12x \times \frac{1}{6} - 18y \times \frac{1}{6} \\
 &= 2x - 3y
 \end{aligned}$$

$$\begin{aligned}
 (2) &(-15x+10y) \div (-5) \\
 &= -15x \times \left(-\frac{1}{5}\right) + 10y \times \left(-\frac{1}{5}\right) \\
 &= 3x - 2y
 \end{aligned}$$