

## 授業(4)

&lt;やってみよう&gt; 解説

$$\begin{aligned}
 \textcircled{1} \quad & 5(x+3y) \\
 &= 5 \times (x+3y) \\
 &= \underline{5 \times x + 5 \times 3y} \\
 &= 5x + 15y
 \end{aligned}$$

$\times$ が省略されている。  
 $5$ を $x$ と $3y$ に分けて計算  
 $\leftarrow$ それぞれ計算

$$\begin{aligned}
 \textcircled{2} \quad & -7(-2x+3y) \\
 &= -7 \times (-2x+3y) \\
 &= \underline{-7 \times (-2x) - 7 \times 3y} \\
 &= 14x - 21y
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{3} \quad & 6\left(\frac{a}{3} - \frac{b}{2}\right) \\
 &= 6 \times \left(\frac{a}{3} - \frac{b}{2}\right) \\
 &= \underline{6^2 \times \frac{a}{3}} + \underline{6^3 \times \left(-\frac{b}{2}\right)} \\
 &= 2a - 3b
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{4} \quad & (-4x-6y+10) \times \left(-\frac{1}{2}\right) \\
 &= \underline{-4x \times \left(-\frac{1}{2}\right)} - \underline{6y \times \left(-\frac{1}{2}\right)} + \underline{10 \times \left(-\frac{1}{2}\right)} \\
 &= 2x + 3y - 5
 \end{aligned}$$

&lt;やってみよう&gt; 解説

$$\begin{aligned}
 \textcircled{1} \quad & (12x-20y) \div 4 \\
 &= (12x-20y) \times \frac{1}{4} \\
 &= \underline{12x \times \frac{1}{4}} - \underline{20y \times \frac{1}{4}} \\
 &= 3x - 5y
 \end{aligned}$$

$\div \rightarrow \times$ になおす  
 $\leftarrow$ 逆数にする  
 $\frac{1}{4}$ を  
 $12x$ と $-20y$ に分けて計算  
 $\leftarrow$ 約分する

$$\begin{aligned}
 \textcircled{2} \quad & (15x^2-5x+30) \div (-5) \\
 &= (15x^2-5x+30) \times \left(-\frac{1}{5}\right) \\
 &= \underline{15x^2 \times \left(-\frac{1}{5}\right)} - \underline{5x \times \left(-\frac{1}{5}\right)} + \underline{30 \times \left(-\frac{1}{5}\right)} \\
 &= -3x^2 + x - 6
 \end{aligned}$$

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

$\frac{1}{3}$ の逆数は  
 $\frac{3}{1} = 3$

$$\begin{aligned}
 \textcircled{4} \quad & \left(\frac{7}{2}x - \frac{7}{4}y\right) \div \frac{7}{4} \\
 &= \left(\frac{7x}{2} - \frac{7y}{4}\right) \times \frac{4}{7} \\
 &= \underline{\frac{7x}{2} \times \frac{4}{7}} - \underline{\frac{7y}{4} \times \frac{4}{7}} \\
 &= 2x - y
 \end{aligned}$$

## 授業(4)

&lt;確認テスト&gt;

$$\textcircled{1} \quad 4(3x-y+2) \text{ を計算しよう。}$$

$$\textcircled{2} \quad -3(2x-4y-3) \text{ を計算しよう。}$$

$$\textcircled{3} \quad (6x-9y-3) \div (-3) \text{ を計算しよう。}$$

$$\textcircled{4} \quad (3x-2y+1) \div \frac{1}{4} \text{ を計算しよう。}$$