

分数の正の数、負の数の除法

次の計算をしましょう。

$$\textcircled{1} \left(+\frac{2}{7} \right) \div \left(-\frac{2}{3} \right)$$

$$\textcircled{2} \left(+\frac{6}{7} \right) \div \left(-\frac{6}{11} \right)$$

$$\textcircled{3} \left(-\frac{2}{5} \right) \div \left(+\frac{9}{10} \right)$$

$$\textcircled{4} \left(-\frac{2}{3} \right) \div \left(-\frac{4}{7} \right)$$

$$\textcircled{5} \left(+\frac{5}{7} \right) \div \left(+\frac{3}{5} \right)$$

$$\textcircled{6} \left(+\frac{9}{10} \right) \div \left(-\frac{6}{11} \right)$$

分数の正の数、負の数の除法

次の計算をしましょう。

$$\begin{aligned} \textcircled{1} \quad & \left(+\frac{2}{7} \right) \div \left(-\frac{2}{3} \right) \\ & = -\left(\frac{2}{7} \times \frac{3}{2} \right) \\ & = -\frac{6}{14} \\ & = -\frac{3}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \left(+\frac{6}{7} \right) \div \left(-\frac{6}{11} \right) \\ & = -\left(\frac{6}{7} \times \frac{11}{6} \right) \\ & = -\frac{66}{42} \\ & = -\frac{11}{7} = -1\frac{4}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \left(-\frac{2}{5} \right) \div \left(+\frac{9}{10} \right) \\ & = -\left(\frac{2}{5} \times \frac{10}{9} \right) \\ & = -\frac{20}{45} \\ & = -\frac{4}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \left(-\frac{2}{3} \right) \div \left(-\frac{4}{7} \right) \\ & = +\left(\frac{2}{3} \times \frac{7}{4} \right) \\ & = +\frac{14}{12} \\ & = +\frac{7}{6} = +1\frac{1}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & \left(+\frac{5}{7} \right) \div \left(+\frac{3}{5} \right) \\ & = +\left(\frac{5}{7} \times \frac{5}{3} \right) \\ & = +\frac{25}{21} = +1\frac{4}{21} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & \left(+\frac{9}{10} \right) \div \left(-\frac{6}{11} \right) \\ & = -\left(\frac{9}{10} \times \frac{11}{6} \right) \\ & = -\frac{99}{60} \\ & = -\frac{33}{20} = -1\frac{13}{20} \end{aligned}$$