

分数の正の数、負の数の除法

次の計算をしましょう。

$$\textcircled{1} \left(-\frac{2}{3} \right) \div \left(-\frac{4}{9} \right)$$

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

$$\textcircled{3} \left(-\frac{3}{7} \right) \div \left(+\frac{9}{10} \right)$$

$$\textcircled{4} \left(-\frac{3}{5} \right) \div \left(+\frac{5}{8} \right)$$

$$\textcircled{5} \left(+\frac{2}{5} \right) \div \left(-\frac{8}{11} \right)$$

$$\textcircled{6} \left(+\frac{5}{6} \right) \div \left(-\frac{2}{5} \right)$$

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$$\begin{aligned} \textcircled{1} & \left(-\frac{2}{3} \right) \div \left(-\frac{4}{9} \right) \\ & = + \left(\frac{2}{3} \times \frac{9}{4} \right) \\ & = + \frac{18}{12} \\ & = + \frac{3}{2} = + 1 \frac{1}{2} \end{aligned}$$

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

$$\begin{aligned} \textcircled{3} & \left(-\frac{3}{7} \right) \div \left(+\frac{9}{10} \right) \\ & = - \left(\frac{3}{7} \times \frac{10}{9} \right) \\ & = - \frac{30}{63} \\ & = - \frac{10}{21} \end{aligned}$$

$$\begin{aligned} \textcircled{4} & \left(-\frac{3}{5} \right) \div \left(+\frac{5}{8} \right) \\ & = - \left(\frac{3}{5} \times \frac{8}{5} \right) \\ & = - \frac{24}{25} \end{aligned}$$

$$\begin{aligned} \textcircled{5} & \left(+\frac{2}{5} \right) \div \left(-\frac{8}{11} \right) \\ & = - \left(\frac{2}{5} \times \frac{11}{8} \right) \\ & = - \frac{22}{40} \\ & = - \frac{11}{20} \end{aligned}$$

$$\begin{aligned} \textcircled{6} & \left(+\frac{5}{6} \right) \div \left(-\frac{2}{5} \right) \\ & = - \left(\frac{5}{6} \times \frac{5}{2} \right) \\ & = - \frac{25}{12} = - 1 \frac{13}{12} \end{aligned}$$