

分数の正の数、負の数の加法

次の計算をしましょう。

$$\textcircled{1} \left(-\frac{5}{8} \right) + \left(-\frac{2}{3} \right)$$

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

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

$$\textcircled{4} \left(+\frac{6}{11} \right) + \left(-\frac{4}{5} \right)$$

$$\textcircled{5} \left(-\frac{5}{7} \right) + \left(-\frac{8}{9} \right)$$

$$\textcircled{6} \left(+\frac{2}{5} \right) + \left(-\frac{3}{10} \right)$$

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次の計算をしましょう。

$$\begin{aligned}\textcircled{1} & \left(-\frac{5}{8}\right) + \left(-\frac{2}{3}\right) \\ & = \left(-\frac{15}{24}\right) + \left(-\frac{16}{24}\right) \\ & = -\left(\frac{15}{24} + \frac{16}{24}\right) \\ & = -\frac{31}{24} = -1\frac{7}{24}\end{aligned}$$

$$\begin{aligned}\textcircled{2} & \left(+\frac{4}{7}\right) + \left(-\frac{2}{3}\right) \\ & = \left(+\frac{12}{21}\right) + \left(-\frac{14}{21}\right) \\ & = -\left(\frac{14}{21} - \frac{12}{21}\right) \\ & = -\frac{2}{21}\end{aligned}$$

$$\begin{aligned}\textcircled{3} & \left(+\frac{3}{10}\right) + \left(-\frac{2}{9}\right) \\ & = \left(+\frac{27}{90}\right) + \left(-\frac{20}{90}\right) \\ & = +\left(\frac{27}{90} - \frac{20}{90}\right) \\ & = +\frac{7}{90}\end{aligned}$$

$$\begin{aligned}\textcircled{4} & \left(+\frac{6}{11}\right) + \left(-\frac{4}{5}\right) \\ & = \left(+\frac{30}{55}\right) + \left(-\frac{44}{55}\right) \\ & = -\left(\frac{44}{55} - \frac{30}{55}\right) \\ & = -\frac{14}{55}\end{aligned}$$

$$\begin{aligned}\textcircled{5} & \left(-\frac{5}{7}\right) + \left(-\frac{8}{9}\right) \\ & = \left(-\frac{45}{63}\right) + \left(-\frac{56}{63}\right) \\ & = -\left(\frac{45}{63} + \frac{56}{63}\right) \\ & = -\frac{101}{63} = -1\frac{38}{63}\end{aligned}$$

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