

分数の正の数、負の数の加法

次の計算をしましょう。

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

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

$$\textcircled{3} \left(-\frac{3}{8} \right) + \left(-\frac{2}{7} \right)$$

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

$$\textcircled{5} \left(+\frac{4}{5} \right) + \left(-\frac{5}{9} \right)$$

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

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次の計算をしましょう。

$$\begin{aligned}\textcircled{1} \quad & \left(-\frac{3}{8}\right) + \left(+\frac{3}{5}\right) \\ &= \left(-\frac{15}{40}\right) + \left(+\frac{24}{40}\right) \\ &= +\left(\frac{24}{40} - \frac{15}{40}\right) \\ &= +\frac{9}{40}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \left(+\frac{2}{3}\right) + \left(+\frac{2}{5}\right) \\ &= \left(+\frac{10}{15}\right) + \left(+\frac{6}{15}\right) \\ &= +\left(\frac{10}{15} + \frac{6}{15}\right) \\ &= +\frac{16}{15} = +1\frac{1}{15}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \left(-\frac{3}{8}\right) + \left(-\frac{2}{7}\right) \\ &= \left(-\frac{21}{56}\right) + \left(-\frac{16}{56}\right) \\ &= -\left(\frac{21}{56} + \frac{16}{56}\right) \\ &= -\frac{37}{56}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \left(+\frac{3}{7}\right) + \left(-\frac{2}{3}\right) \\ &= \left(+\frac{9}{21}\right) + \left(-\frac{14}{21}\right) \\ &= -\left(\frac{14}{21} - \frac{9}{21}\right) \\ &= -\frac{5}{21}\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad & \left(+\frac{4}{5}\right) + \left(-\frac{5}{9}\right) \\ &= \left(+\frac{36}{45}\right) + \left(-\frac{25}{45}\right) \\ &= +\left(\frac{36}{45} - \frac{25}{45}\right) \\ &= +\frac{11}{45}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & \left(+\frac{5}{11}\right) + \left(-\frac{4}{5}\right) \\ &= \left(+\frac{25}{55}\right) + \left(-\frac{44}{55}\right) \\ &= -\left(\frac{44}{55} - \frac{25}{55}\right) \\ &= -\frac{19}{55}\end{aligned}$$