

分数の正の数、負の数の加法

次の計算をしましょう。

$$\textcircled{1} \left(+\frac{5}{6} \right) + \left(-\frac{7}{9} \right)$$

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

$$\textcircled{3} \left(+\frac{4}{5} \right) + \left(+\frac{2}{3} \right)$$

$$\textcircled{4} \left(+\frac{5}{6} \right) + \left(-\frac{2}{9} \right)$$

$$\textcircled{5} \left(+\frac{5}{9} \right) + \left(+\frac{4}{7} \right)$$

$$\textcircled{6} \left(+\frac{2}{11} \right) + \left(-\frac{3}{4} \right)$$

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次の計算をしましょう。

$$\begin{aligned}\textcircled{1} \quad & \left(+\frac{5}{6} \right) + \left(-\frac{7}{9} \right) \\ &= \left(+\frac{15}{18} \right) + \left(-\frac{14}{18} \right) \\ &= + \left(\frac{15}{18} - \frac{14}{18} \right) \\ &= + \frac{1}{18}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \left(-\frac{2}{9} \right) + \left(+\frac{2}{5} \right) \\ &= \left(-\frac{10}{45} \right) + \left(+\frac{18}{45} \right) \\ &= + \left(\frac{18}{45} - \frac{10}{45} \right) \\ &= + \frac{8}{45}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \left(+\frac{4}{5} \right) + \left(+\frac{2}{3} \right) \\ &= \left(+\frac{12}{15} \right) + \left(+\frac{10}{15} \right) \\ &= + \left(\frac{12}{15} + \frac{10}{15} \right) \\ &= + \frac{22}{15} = + 1 \frac{7}{15}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \left(+\frac{5}{6} \right) + \left(-\frac{2}{9} \right) \\ &= \left(+\frac{15}{18} \right) + \left(-\frac{4}{18} \right) \\ &= + \left(\frac{15}{18} - \frac{4}{18} \right) \\ &= + \frac{11}{18}\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad & \left(+\frac{5}{9} \right) + \left(+\frac{4}{7} \right) \\ &= \left(+\frac{35}{63} \right) + \left(+\frac{36}{63} \right) \\ &= + \left(\frac{35}{63} + \frac{36}{63} \right) \\ &= + \frac{71}{63} = + 1 \frac{8}{63}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & \left(+\frac{2}{11} \right) + \left(-\frac{3}{4} \right) \\ &= \left(+\frac{8}{44} \right) + \left(-\frac{33}{44} \right) \\ &= - \left(\frac{33}{44} - \frac{8}{44} \right) \\ &= - \frac{25}{44}\end{aligned}$$