

分数の計算 くふうして計算する

目標時間 10分

NO. 2

名前

/5 点

★次の式をくふうして計算をしましょう。(途中式を書きましょう。)

$$\textcircled{1} \quad \frac{2}{9} \times \frac{2}{3} + \frac{5}{6} \times \frac{2}{5}$$

$$\textcircled{2} \quad \frac{4}{9} \times \frac{4}{7} - \frac{4}{9} \times \frac{2}{5}$$

$$\textcircled{3} \quad 0.8 \times \frac{2}{7} + 4.2 \times \frac{2}{7}$$

$$\textcircled{4} \quad 3.14 \times \frac{5}{6} - 3.14 \times \frac{1}{3}$$

$$\textcircled{5} \quad 0.25 \times \frac{2}{3} + 0.25 \times \frac{1}{6} - 0.25 \times \frac{1}{2}$$

答え

$$\begin{aligned} \textcircled{1} \quad \left(\frac{2}{9} + \frac{5}{6} \right) \times \frac{2}{3} &= \left(\frac{4}{18} + \frac{15}{18} \right) \times \frac{2}{3} \\ &= \frac{19}{18} \times \frac{2}{3} = \frac{19}{27} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{4}{9} \times \left(\frac{4}{7} - \frac{2}{5} \right) &= \frac{4}{9} \times \left(\frac{20}{35} - \frac{14}{35} \right) \\ &= \frac{4}{9} \times \frac{6}{35} = \frac{8}{105} \end{aligned}$$

$$\textcircled{3} \quad (0.8 + 4.2) \times \frac{2}{7} = 5 \times \frac{2}{7} = \frac{10}{7}$$

$$\begin{aligned} \textcircled{4} \quad 3.14 \times \left(\frac{5}{6} - \frac{1}{3} \right) &= \frac{314}{100} \times \left(\frac{5}{6} - \frac{2}{6} \right) \\ &= \frac{314}{100} \times \frac{3}{6} = \frac{157}{100} \quad (1.57) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 0.25 \times \left(\frac{2}{3} + \frac{1}{6} - \frac{1}{2} \right) \\ &= 0.25 \times \left(\frac{4}{6} + \frac{1}{6} - \frac{3}{6} \right) \\ &= \frac{25}{100} \times \frac{2}{6} = \frac{1}{12} \end{aligned}$$