

問題 1

次の計算をしなさい。

$$1 \quad 4\frac{2}{3} \times 0.5 - 0.5 \times \frac{1}{3} = \boxed{\frac{13}{6} \quad (2\frac{1}{6})}$$

$$\begin{aligned} & 4\frac{2}{3} \times 0.5 - 0.5 \times \frac{1}{3} \\ = & \frac{14 \times \cancel{5}^1}{3 \times \cancel{10}_2} - \frac{1 \times \cancel{5}^1}{2 \times \cancel{10}_2 \times 3} \\ = & \frac{14}{6} - \frac{1}{6} \\ = & \frac{13}{6} \end{aligned}$$

答え $\frac{13}{6} \quad (2\frac{1}{6})$

(別な考え方)

$$\begin{aligned} & 4\frac{2}{3} \times \boxed{0.5} - \boxed{0.5} \times \frac{1}{3} \\ = & \boxed{0.5} \times (4\frac{2}{3} - \frac{1}{3}) \\ = & \frac{5}{10} \times \frac{13}{3} \\ = & \frac{\cancel{15}^1 \times 13}{\cancel{210}_2 \times 3} \\ = & \frac{13}{6} \end{aligned}$$

$$2 \quad 0.01 \times 20 \times 4 \times 1.75 \times 25 = \boxed{35}$$

左から順番に計算をしていくと・・・。

$$\begin{aligned} & \boxed{0.01 \times 20} \times 4 \times 1.75 \times 25 \\ = & \boxed{0.2 \times 4} \times 1.75 \times 25 \\ = & \boxed{0.8 \times 1.75} \times 25 \\ = & 1.4 \times 25 \\ = & 35 \end{aligned}$$

答え 35

(別な考え方)

4 × 25 は 100 になる。かけ算なので、順番を入れ替えても計算ができることを活用すると・・・。

$$\begin{aligned} & 0.01 \times 20 \times \boxed{4} \times 1.75 \times \boxed{25} \\ = & \boxed{0.01} \times 20 \times \boxed{100} \times 1.75 \\ = & 1 \times 20 \times 1.75 \\ = & 35 \end{aligned}$$

$$3 \quad \frac{4}{25} \times 3\frac{3}{4} - 0.27 \div \frac{3}{4} = \boxed{\frac{6}{25} (0.24)}$$

$$\begin{aligned} & \frac{4}{25} \times 3\frac{3}{4} - 0.27 \div \frac{3}{4} \\ = & \frac{\overset{1}{\cancel{4}} \times 15}{25 \times \overset{1}{\cancel{4}}} - \frac{9 \overset{1}{\cancel{27}} \times \overset{1}{\cancel{4}}}{\overset{1}{\cancel{100}} \times \overset{1}{\cancel{3}}} \\ = & \frac{15}{25} - \frac{9}{25} \\ = & \frac{6}{25} \end{aligned}$$

答え $\frac{6}{25} (0.24)$
