

	年	月 日	名 前		点
--	---	--------	--------	--	---

四則混合 ③ 計算のきまりをつかって

1問12点(減点法)

$$\begin{aligned}
 & \textcircled{1} \quad \frac{1}{4} \times \frac{10}{9} + \frac{1}{5} \times \frac{10}{9} \\
 &= \left(\frac{1}{4} + \frac{1}{5} \right) \times \frac{10}{9} \\
 &= \left(\frac{5}{20} + \frac{4}{20} \right) \times \frac{10}{9} \\
 &= \frac{\cancel{1}^1 \cancel{9}^1}{2 \cancel{20}^1} \times \frac{\cancel{10}^1}{\cancel{9}^1} \\
 &= \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{3} \quad \frac{1}{2} \times \frac{1}{5} - \frac{1}{3} \times \frac{1}{5} \\
 &= \left(\frac{1}{2} - \frac{1}{3} \right) \times \frac{1}{5} \\
 &= \left(\frac{3}{6} - \frac{2}{6} \right) \times \frac{1}{5} \\
 &= \frac{1}{6} \times \frac{1}{5} \\
 &= \frac{1}{30}
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{2} \quad \frac{3}{5} \times \frac{5}{11} - \frac{2}{7} \times \frac{5}{11} \\
 &= \left(\frac{3}{5} - \frac{2}{7} \right) \times \frac{5}{11} \\
 &= \left(\frac{21}{35} - \frac{10}{35} \right) \times \frac{5}{11} \\
 &= \frac{\cancel{1}^1 \cancel{11}^1}{7 \cancel{35}^1} \times \frac{\cancel{5}^1}{\cancel{11}^1} \\
 &= \frac{1}{7}
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{4} \quad \frac{2}{3} \div \frac{4}{5} + \frac{2}{5} \div \frac{4}{5} \\
 &= \left(\frac{2}{3} + \frac{2}{5} \right) \div \frac{4}{5} \\
 &= \left(\frac{10}{15} + \frac{6}{15} \right) \times \frac{5}{4} \\
 &= \frac{\cancel{4}^4 \cancel{15}^1}{3 \cancel{15}^1} \times \frac{\cancel{5}^1}{\cancel{4}^1} \\
 &= \frac{4}{3}
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{5} \quad \frac{1}{4} \times 1.2 + \frac{2}{3} \times 1.2 \\
 &= \left(\frac{1}{4} + \frac{2}{3} \right) \times \frac{12}{10} \\
 &= \left(\frac{3}{12} + \frac{8}{12} \right) \times \frac{12}{10} \\
 &= \frac{11}{12} \times \frac{12}{10} \\
 &= \frac{11}{10}
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{7} \quad \frac{2}{5} \times 0.9 - \frac{2}{5} \times 0.3 \\
 &= \frac{2}{5} \times \left(\frac{9}{10} - \frac{3}{10} \right) \\
 &= \frac{2}{5} \times \frac{6}{10} \\
 &= \frac{6}{25}
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{6} \quad \frac{9}{8} \div 0.7 - \frac{5}{6} \div 0.7 \\
 &= \left(\frac{9}{8} - \frac{5}{6} \right) \div \frac{7}{10} \\
 &= \left(\frac{27}{24} - \frac{20}{24} \right) \times \frac{10}{7} \\
 &= \frac{7}{24} \times \frac{10}{7} \\
 &= \frac{5}{12}
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{8} \quad \frac{15}{16} \times 0.5 + \frac{15}{16} \times \frac{1}{6} \\
 &= \frac{15}{16} \times \left(\frac{5}{10} + \frac{1}{6} \right) \\
 &= \frac{15}{16} \times \left(\frac{3}{6} + \frac{1}{6} \right) \\
 &= \frac{15}{16} \times \frac{4}{6} \\
 &= \frac{5}{8}
 \end{aligned}$$