

# 【計算のきまり】 分数のかけ算 (5)

名前 \_\_\_\_\_

【1】 次の計算の決まりを使って計算しなさい。

計算のきまり

$$(a \times b) \times c = a \times (b \times c)$$

$$(a + b) \times c = a \times c + b \times c$$

$$(a - b) \times c = a \times c - b \times c$$

$$\begin{aligned} (1) \quad & \left(\frac{1}{7} \times \frac{5}{6}\right) \times \frac{4}{3} \\ &= \frac{1}{7} \times \left(\frac{5}{6} \times \frac{4}{3}\right) = \frac{1}{7} \times \frac{10}{9} = \frac{10}{63} \end{aligned}$$

$$\begin{aligned} (2) \quad & \left(\frac{1}{4} \times \frac{5}{6}\right) \times \frac{12}{5} \\ &= \frac{1}{4} \times \left(\frac{5}{6} \times \frac{12}{5}\right) = \frac{1}{4} \times 2 = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} (3) \quad & \left(\frac{8}{7} \times \frac{1}{9}\right) \times \frac{3}{8} \\ &= \frac{8}{7} \times \left(\frac{1}{9} \times \frac{3}{8}\right) = \frac{8}{7} \times \frac{1}{24} = \frac{1}{21} \end{aligned}$$

$$\begin{aligned} (4) \quad & \left(\frac{7}{4} \times \frac{15}{16}\right) \times \frac{8}{7} \\ &= \frac{7}{4} \times \left(\frac{15}{16} \times \frac{8}{7}\right) = \frac{7}{4} \times \frac{15}{14} = \frac{15}{8} \left(1\frac{7}{8}\right) \end{aligned}$$

$$\begin{aligned} (5) \quad & \left(\frac{2}{3} + \frac{3}{2}\right) \times \frac{6}{7} \\ &= \frac{2}{3} \times \frac{6}{7} + \frac{3}{2} \times \frac{6}{7} = \frac{4}{7} + \frac{9}{7} = \frac{13}{7} \left(1\frac{6}{7}\right) \end{aligned}$$

$$\begin{aligned} (6) \quad & \left(\frac{1}{6} + \frac{3}{4}\right) \times \frac{12}{5} \\ &= \frac{1}{6} \times \frac{12}{5} + \frac{3}{4} \times \frac{12}{5} = \frac{2}{5} + \frac{9}{5} = \frac{11}{5} \\ & \qquad \qquad \qquad \left(2\frac{1}{5}\right) \end{aligned}$$

$$\begin{aligned} (7) \quad & \left(\frac{1}{8} + \frac{1}{3}\right) \times \frac{24}{11} \\ &= \frac{1}{8} \times \frac{24}{11} + \frac{1}{3} \times \frac{24}{11} = \frac{3}{11} + \frac{8}{11} = 1 \end{aligned}$$

$$\begin{aligned} (8) \quad & \left(\frac{11}{12} + \frac{1}{6}\right) \times \frac{12}{7} \\ &= \frac{11}{12} \times \frac{12}{7} + \frac{1}{6} \times \frac{12}{7} = \frac{11}{7} + \frac{2}{7} = \frac{13}{7} \\ & \qquad \qquad \qquad \left(1\frac{6}{7}\right) \end{aligned}$$

$$\begin{aligned} (9) \quad & \left(\frac{4}{3} - \frac{8}{9}\right) \times \frac{9}{5} \\ &= \frac{4}{3} \times \frac{9}{5} - \frac{8}{9} \times \frac{9}{5} = \frac{12}{5} - \frac{8}{5} = \frac{4}{5} \end{aligned}$$

$$\begin{aligned} (10) \quad & \left(\frac{4}{3} - \frac{3}{5}\right) \times \frac{15}{11} \\ &= \frac{4}{3} \times \frac{15}{11} - \frac{3}{5} \times \frac{15}{11} = \frac{20}{11} - \frac{9}{11} = 1 \end{aligned}$$

$$\begin{aligned} (11) \quad & \left(\frac{1}{2} - \frac{3}{7}\right) \times \frac{14}{9} \\ &= \frac{1}{2} \times \frac{14}{9} - \frac{3}{7} \times \frac{14}{9} = \frac{7}{9} - \frac{6}{9} = \frac{1}{9} \end{aligned}$$

$$\begin{aligned} (12) \quad & \left(\frac{3}{4} - \frac{2}{5}\right) \times \frac{20}{7} \\ &= \frac{3}{4} \times \frac{20}{7} - \frac{2}{5} \times \frac{20}{7} = \frac{15}{7} - \frac{8}{7} = 1 \end{aligned}$$