

【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

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

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

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

$$(1) \left(\frac{1}{2} \times \frac{1}{3}\right) \times \frac{3}{4}$$

$$= \frac{1}{2} \times \left(\frac{1}{3} \times \frac{3}{4}\right) = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

$$(2) \left(\frac{1}{2} \times \frac{6}{5}\right) \times \frac{1}{6}$$

$$= \frac{1}{2} \times \left(\frac{6}{5} \times \frac{1}{6}\right) = \frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$$

$$(3) \left(\frac{1}{3} \times \frac{5}{12}\right) \times \frac{8}{5}$$

$$= \frac{1}{3} \times \left(\frac{5}{12} \times \frac{8}{5}\right) = \frac{1}{3} \times \frac{2}{3} = \frac{2}{9}$$

$$(4) \left(\frac{2}{7} \times \frac{5}{8}\right) \times \frac{8}{3}$$

$$= \frac{2}{7} \times \left(\frac{5}{8} \times \frac{8}{3}\right) = \frac{2}{7} \times \frac{5}{3} = \frac{10}{21}$$

$$(5) \left(\frac{1}{6} + \frac{5}{4}\right) \times \frac{12}{7}$$

$$= \frac{1}{6} \times \frac{12}{7} + \frac{5}{4} \times \frac{12}{7} = \frac{2}{7} + \frac{15}{7} = \frac{17}{7} \left(2\frac{3}{7}\right)$$

$$(6) \left(\frac{3}{5} + \frac{1}{3}\right) \times \frac{15}{8}$$

$$= \frac{3}{5} \times \frac{15}{8} + \frac{1}{3} \times \frac{15}{8} = \frac{9}{8} + \frac{5}{8} = \frac{14}{8} = \frac{7}{4} \left(1\frac{3}{4}\right)$$

$$(7) \left(\frac{7}{5} + \frac{1}{2}\right) \times \frac{10}{9}$$

$$= \frac{7}{5} \times \frac{10}{9} + \frac{1}{2} \times \frac{10}{9} = \frac{14}{9} + \frac{5}{9} = \frac{19}{9} \left(2\frac{1}{9}\right)$$

$$(8) \left(\frac{11}{4} + \frac{1}{2}\right) \times \frac{8}{5}$$

$$= \frac{11}{4} \times \frac{8}{5} + \frac{1}{2} \times \frac{8}{5} = \frac{22}{5} + \frac{4}{5} = \frac{26}{5}$$

$$\left(5\frac{1}{5}\right)$$

$$(9) \left(\frac{1}{2} - \frac{1}{3}\right) \times \frac{6}{7}$$

$$= \frac{1}{2} \times \frac{6}{7} - \frac{1}{3} \times \frac{6}{7} = \frac{3}{7} - \frac{2}{7} = \frac{1}{7}$$

$$(10) \left(\frac{3}{2} - \frac{4}{3}\right) \times \frac{12}{13}$$

$$= \frac{3}{2} \times \frac{12}{13} - \frac{4}{3} \times \frac{12}{13} = \frac{18}{13} - \frac{16}{13} = \frac{2}{13}$$

$$(11) \left(\frac{3}{4} - \frac{1}{2}\right) \times \frac{8}{5}$$

$$= \frac{3}{4} \times \frac{8}{5} - \frac{1}{2} \times \frac{8}{5} = \frac{6}{5} - \frac{4}{5} = \frac{2}{5}$$

$$(12) \left(\frac{8}{7} - \frac{2}{3}\right) \times \frac{21}{10}$$

$$= \frac{8}{7} \times \frac{21}{10} - \frac{2}{3} \times \frac{21}{10} = \frac{12}{5} - \frac{7}{5} = 1$$