

【計算のきまり】分数のわり算(1)

名前 _____

かけ算とわり算のまじった分数の計算のしかた

【1】 次の計算をなさい。

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

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

$$(2) \frac{12}{5} \times \frac{3}{8} \div \frac{3}{5}$$

$$= \frac{12}{5} \times \frac{3}{8} \times \frac{5}{3} = \frac{3 \times 1 \times 1}{1 \times 2 \times 1} = \frac{3}{2}$$

$$(3) \frac{3}{10} \div \frac{1}{4} \times \frac{7}{12}$$

$$= \frac{3}{10} \times \frac{4}{1} \times \frac{7}{12} = \frac{1 \times 1 \times 7}{10 \times 1 \times 1} = \frac{7}{10}$$

$$(4) \frac{5}{2} \div \frac{8}{5} \times \frac{4}{3}$$

$$= \frac{5}{2} \times \frac{5}{8} \times \frac{4}{3} = \frac{5 \times 5 \times 1}{2 \times 2 \times 3} = \frac{25}{12} \quad \left(2\frac{1}{12}\right)$$

$$(5) \frac{1}{9} \div \frac{6}{7} \div \frac{3}{8}$$

$$= \frac{1}{9} \times \frac{7}{6} \times \frac{8}{3} = \frac{1 \times 7 \times 4}{9 \times 3 \times 3} = \frac{28}{81}$$

$$(6) \frac{1}{7} \div \frac{11}{6} \div \frac{2}{7}$$

$$= \frac{1}{7} \times \frac{6}{11} \times \frac{7}{2} = \frac{1 \times 3 \times 1}{1 \times 11 \times 1} = \frac{3}{11}$$

$$(7) \frac{7}{12} \div \frac{1}{6} \div \frac{4}{9}$$

$$= \frac{7}{12} \times \frac{6}{1} \times \frac{9}{4} = \frac{7 \times 1 \times 9}{2 \times 1 \times 4} = \frac{63}{8} \quad \left(7\frac{7}{8}\right)$$

$$(8) \frac{3}{10} \div \frac{12}{5} \div \frac{1}{8}$$

$$= \frac{3}{10} \times \frac{5}{12} \times \frac{8}{1} = \frac{1 \times 1 \times 1}{1 \times 1 \times 1} = 1$$

$$(9) \frac{4}{5} \times \frac{1}{2} \div \frac{2}{5} \times \frac{8}{11}$$

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

$$(10) \frac{7}{4} \times \frac{3}{4} \div \frac{3}{5} \times \frac{8}{9}$$

$$= \frac{7}{4} \times \frac{3}{4} \times \frac{5}{3} \times \frac{8}{9} = \frac{7 \times 1 \times 5 \times 1}{1 \times 2 \times 1 \times 9} = \frac{35}{18} \quad \left(1\frac{17}{18}\right)$$

$$(11) \frac{3}{2} \div \frac{1}{6} \times \frac{4}{5} \times \frac{3}{8}$$

$$= \frac{3}{2} \times \frac{6}{1} \times \frac{4}{5} \times \frac{3}{8} = \frac{3 \times 3 \times 1 \times 3}{2 \times 1 \times 5 \times 1} = \frac{27}{10}$$

$$(12) \frac{7}{4} \times \frac{3}{10} \times \frac{5}{6} \div \frac{1}{8}$$

$$= \frac{7}{4} \times \frac{3}{10} \times \frac{5}{6} \times \frac{8}{1} = \frac{7 \times 1 \times 1 \times 1}{1 \times 2 \times 1 \times 1} = \frac{7}{2}$$

$$(13) \frac{3}{8} \div \frac{10}{7} \times \frac{6}{7} \div \frac{7}{10}$$

$$= \frac{3}{8} \times \frac{7}{10} \times \frac{6}{7} \times \frac{10}{7} = \frac{3 \times 1 \times 3 \times 1}{4 \times 1 \times 1 \times 7} = \frac{9}{28}$$

$$(14) \frac{1}{6} \div \frac{8}{3} \times \frac{3}{2} \div \frac{1}{12}$$

$$= \frac{1}{6} \times \frac{3}{8} \times \frac{3}{2} \times \frac{12}{1} = \frac{1 \times 3 \times 3 \times 1}{1 \times 8 \times 1 \times 1} = \frac{9}{8}$$

$$\left(1\frac{1}{8}\right)$$