

(分数)×(整数)のかけ算
約分なし

◆ かけ算をしましょう。

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

$$\textcircled{2} \quad \frac{1}{9} \times 5 = \frac{1 \times 5}{9} = \frac{5}{9}$$

$$\textcircled{3} \quad \frac{1}{5} \times 4 = \frac{1 \times 4}{5} = \frac{4}{5}$$

$$\textcircled{4} \quad \frac{4}{9} \times 2 = \frac{4 \times 2}{9} = \frac{8}{9}$$

$$\textcircled{5} \quad \frac{6}{5} \times 4 = \frac{6 \times 4}{5} = \frac{24}{5}$$

$$(4\frac{4}{5})$$

$$\textcircled{6} \quad \frac{5}{3} \times 4 = \frac{5 \times 4}{3} = \frac{20}{3}$$

$$(6\frac{2}{3})$$

$$\textcircled{7} \quad \frac{4}{3} \times 7 = \frac{4 \times 7}{3} = \frac{28}{3}$$

$$(9\frac{1}{3})$$

$$\textcircled{8} \quad \frac{5}{4} \times 7 = \frac{5 \times 7}{4} = \frac{35}{4}$$

$$(8\frac{3}{4})$$

$$\textcircled{9} \quad \frac{3}{2} \times 9 = \frac{3 \times 9}{2} = \frac{27}{2}$$

$$(13\frac{1}{2})$$

$$\textcircled{10} \quad 1\frac{4}{9} \times 2 = \frac{13}{9} \times 2$$

$$= \frac{13 \times 2}{9} = \frac{26}{9} (2\frac{8}{9})$$

(分数)×(整数)のかけ算
約分あり

◆ かけ算をしましょう。

$$\textcircled{1} \frac{1}{8} \times 2 = \frac{1 \times \overset{1}{\cancel{2}}}{\underset{4}{\cancel{8}}} = \frac{1}{4}$$

$$\textcircled{2} \frac{3}{10} \times 2 = \frac{3 \times \overset{1}{\cancel{2}}}{\underset{5}{\cancel{10}}} = \frac{3}{5}$$

$$\textcircled{3} \frac{2}{15} \times 6 = \frac{2 \times \overset{2}{\cancel{6}}}{\underset{5}{\cancel{15}}} = \frac{4}{5}$$

$$\textcircled{4} \frac{2}{21} \times 7 = \frac{2 \times \overset{1}{\cancel{7}}}{\underset{3}{\cancel{21}}} = \frac{2}{3}$$

$$\textcircled{5} \frac{7}{12} \times 9 = \frac{7 \times \overset{3}{\cancel{9}}}{\underset{4}{\cancel{12}}} = \frac{21}{4}$$

(5 $\frac{1}{4}$)

$$\textcircled{6} \frac{5}{18} \times 24 = \frac{5 \times \overset{4}{\cancel{24}}}{\underset{3}{\cancel{18}}} = \frac{20}{3}$$

(6 $\frac{2}{3}$)

$$\textcircled{7} \frac{9}{20} \times 5 = \frac{9 \times \overset{1}{\cancel{5}}}{\underset{4}{\cancel{20}}} = \frac{9}{4}$$

(2 $\frac{1}{4}$)

$$\textcircled{8} \frac{5}{14} \times 21 = \frac{5 \times \overset{3}{\cancel{21}}}{\underset{2}{\cancel{14}}} = \frac{15}{2}$$

(7 $\frac{1}{2}$)

$$\textcircled{9} \frac{8}{9} \times 18 = \frac{8 \times \overset{2}{\cancel{18}}}{\underset{1}{\cancel{9}}} = 16$$

$$\textcircled{10} 3\frac{1}{4} \times 20 = \frac{13}{4} \times 20$$

$$= \frac{13 \times \overset{5}{\cancel{20}}}{\underset{1}{\cancel{4}}} = 65$$

(分数)×(整数)のかけ算

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$$\textcircled{1} \frac{4}{9} \times 2 = \frac{4 \times 2}{9} = \frac{8}{9}$$

$$\textcircled{2} \frac{1}{7} \times 6 = \frac{1 \times 6}{7} = \frac{6}{7}$$

$$\textcircled{3} \frac{7}{6} \times 5 = \frac{7 \times 5}{6} = \frac{35}{6}$$

$$(5 \frac{5}{6})$$

$$\textcircled{4} \frac{5}{4} \times 3 = \frac{5 \times 3}{4} = \frac{15}{4}$$

$$(3 \frac{3}{4})$$

$$\textcircled{5} \frac{1}{10} \times 5 = \frac{1 \times 5}{\cancel{10}_2} = \frac{1}{2}$$

$$\textcircled{6} \frac{2}{9} \times 3 = \frac{2 \times \cancel{3}_3}{9} = \frac{2}{3}$$

$$\textcircled{7} \frac{7}{18} \times 8 = \frac{7 \times \cancel{8}_4}{\cancel{18}_9} = \frac{28}{9}$$

$$(3 \frac{1}{9})$$

$$\textcircled{8} \frac{8}{25} \times 15 = \frac{8 \times \cancel{15}_3}{\cancel{25}_5} = \frac{24}{5}$$

$$(4 \frac{4}{5})$$

$$\textcircled{9} \frac{7}{12} \times 48 = \frac{7 \times \cancel{48}_4}{\cancel{12}_1} = 28$$

$$\textcircled{10} 2\frac{1}{6} \times 12 = \frac{13}{6} \times 12$$

$$= \frac{13 \times \cancel{12}_2}{\cancel{6}_1} = 26$$

(分数)÷(整数)のわり算
約分なし

◆ わり算をしましょう。

$$\textcircled{1} \frac{1}{5} \div 3 = \frac{1}{5 \times 3} = \frac{1}{15}$$

$$\textcircled{2} \frac{3}{4} \div 2 = \frac{3}{4 \times 2} = \frac{3}{8}$$

$$\textcircled{3} \frac{1}{2} \div 5 = \frac{1}{2 \times 5} = \frac{1}{10}$$

$$\textcircled{4} \frac{2}{3} \div 7 = \frac{2}{3 \times 7} = \frac{2}{21}$$

$$\textcircled{5} \frac{7}{6} \div 5 = \frac{7}{6 \times 5} = \frac{7}{30}$$

$$\textcircled{6} \frac{5}{2} \div 7 = \frac{5}{2 \times 7} = \frac{5}{14}$$

$$\textcircled{7} \frac{8}{5} \div 9 = \frac{8}{5 \times 9} = \frac{8}{45}$$

$$\textcircled{8} \frac{7}{4} \div 6 = \frac{7}{4 \times 6} = \frac{7}{24}$$

$$\textcircled{9} \frac{9}{8} \div 4 = \frac{9}{8 \times 4} = \frac{9}{32}$$

$$\textcircled{10} \frac{10}{7} \div 9 = \frac{10}{7 \times 9} = \frac{10}{63}$$

(分数)÷(整数)のわり算
約分あり

◆ わり算をしましょう。

$$\textcircled{1} \frac{3}{7} \div 3 = \frac{\overset{1}{\cancel{3}}}{7 \times \underset{1}{\cancel{3}}} = \frac{1}{7}$$

$$\textcircled{2} \frac{4}{5} \div 2 = \frac{\overset{2}{\cancel{4}}}{5 \times \underset{1}{\cancel{2}}} = \frac{2}{5}$$

$$\textcircled{3} \frac{8}{9} \div 4 = \frac{\overset{2}{\cancel{8}}}{9 \times \underset{1}{\cancel{4}}} = \frac{2}{9}$$

$$\textcircled{4} \frac{7}{8} \div 14 = \frac{\overset{1}{\cancel{7}}}{8 \times \underset{2}{\cancel{14}}} = \frac{1}{16}$$

$$\textcircled{5} \frac{5}{9} \div 10 = \frac{\overset{1}{\cancel{5}}}{9 \times \underset{2}{\cancel{10}}} = \frac{1}{18}$$

$$\textcircled{6} \frac{12}{5} \div 8 = \frac{\overset{3}{\cancel{12}}}{5 \times \underset{2}{\cancel{8}}} = \frac{3}{10}$$

$$\textcircled{7} \frac{20}{3} \div 24 = \frac{\overset{5}{\cancel{20}}}{3 \times \underset{6}{\cancel{24}}} = \frac{5}{18}$$

$$\textcircled{8} \frac{16}{3} \div 12 = \frac{\overset{4}{\cancel{16}}}{3 \times \underset{3}{\cancel{12}}} = \frac{4}{9}$$

$$\textcircled{9} 2\frac{1}{7} \div 10 = \frac{15}{7} \div 10$$

$$= \frac{\overset{3}{\cancel{15}}}{7 \times \underset{2}{\cancel{10}}} = \frac{3}{14}$$

$$\textcircled{10} 2\frac{5}{8} \div 14 = \frac{21}{8} \div 14$$

$$= \frac{\overset{3}{\cancel{21}}}{8 \times \underset{2}{\cancel{14}}} = \frac{3}{16}$$

(分数)÷(整数)のわり算

◆ わり算をしましょう。

$$\textcircled{1} \quad \frac{1}{4} \div 2 = \frac{1}{4 \times 2} = \frac{1}{8}$$

$$\textcircled{2} \quad \frac{3}{5} \div 7 = \frac{3}{5 \times 7} = \frac{3}{35}$$

$$\textcircled{3} \quad \frac{5}{3} \div 6 = \frac{5}{3 \times 6} = \frac{5}{18}$$

$$\textcircled{4} \quad \frac{7}{6} \div 5 = \frac{7}{6 \times 5} = \frac{7}{30}$$

$$\textcircled{5} \quad \frac{3}{5} \div 3 = \frac{\overset{1}{\cancel{3}}}{5 \times \underset{1}{\cancel{3}}} = \frac{1}{5}$$

$$\textcircled{6} \quad \frac{6}{7} \div 2 = \frac{\overset{3}{\cancel{6}}}{7 \times \underset{1}{\cancel{2}}} = \frac{3}{7}$$

$$\textcircled{7} \quad \frac{4}{9} \div 16 = \frac{\overset{1}{\cancel{4}}}{9 \times \underset{4}{\cancel{16}}} = \frac{1}{36}$$

$$\textcircled{8} \quad \frac{15}{8} \div 5 = \frac{\overset{3}{\cancel{15}}}{8 \times \underset{1}{\cancel{5}}} = \frac{3}{8}$$

$$\textcircled{9} \quad \frac{21}{4} \div 14 = \frac{\overset{3}{\cancel{21}}}{4 \times \underset{2}{\cancel{14}}} = \frac{3}{8}$$

$$\begin{aligned} \textcircled{10} \quad 3\frac{4}{7} \div 20 &= \frac{25}{7} \div 20 \\ &= \frac{\overset{5}{\cancel{25}}}{7 \times \underset{4}{\cancel{20}}} = \frac{5}{28} \end{aligned}$$

(分数)×(分数)のかけ算
約分なし

◆ かけ算をしましょう。

$$\textcircled{1} \frac{1}{2} \times \frac{1}{3}$$

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

$$\textcircled{2} \frac{2}{5} \times \frac{1}{3}$$

$$= \frac{2 \times 1}{5 \times 3} = \frac{2}{15}$$

$$\textcircled{3} \frac{5}{8} \times \frac{3}{2}$$

$$= \frac{5 \times 3}{8 \times 2} = \frac{15}{16}$$

$$\textcircled{4} \frac{3}{4} \times \frac{1}{7}$$

$$= \frac{3 \times 1}{4 \times 7} = \frac{3}{28}$$

$$\textcircled{5} \frac{1}{8} \times \frac{5}{7}$$

$$= \frac{1 \times 5}{8 \times 7} = \frac{5}{56}$$

$$\textcircled{6} \frac{7}{9} \times \frac{4}{3}$$

$$= \frac{7 \times 4}{9 \times 3} = \frac{28}{27} \left(1 \frac{1}{27} \right)$$

$$\textcircled{7} \frac{5}{4} \times \frac{7}{8}$$

$$= \frac{5 \times 7}{4 \times 8} = \frac{35}{32} \left(1 \frac{3}{32} \right)$$

$$\textcircled{8} \frac{3}{2} \times \frac{9}{5}$$

$$= \frac{3 \times 9}{2 \times 5} = \frac{27}{10} \left(2 \frac{7}{10} \right)$$

$$\textcircled{9} \frac{7}{5} \times \frac{9}{4}$$

$$= \frac{7 \times 9}{5 \times 4} = \frac{63}{20} \left(3 \frac{3}{20} \right)$$

$$\textcircled{10} \frac{5}{8} \times \frac{11}{6}$$

$$= \frac{5 \times 11}{8 \times 6} = \frac{55}{48} \left(1 \frac{7}{48} \right)$$

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◆ かけ算をしましょう。

$$\textcircled{1} \frac{2}{3} \times \frac{1}{4}$$

$$= \frac{\overset{1}{\cancel{2}} \times \overset{1}{\cancel{1}}}{\underset{2}{3} \times \underset{2}{\cancel{4}}} = \frac{1}{6}$$

$$\textcircled{2} \frac{3}{4} \times \frac{7}{9}$$

$$= \frac{\overset{1}{\cancel{3}} \times 7}{\underset{3}{4} \times \underset{3}{\cancel{9}}} = \frac{7}{12}$$

$$\textcircled{3} \frac{8}{9} \times \frac{5}{6}$$

$$= \frac{\overset{4}{\cancel{8}} \times 5}{\underset{3}{9} \times \underset{3}{\cancel{6}}} = \frac{20}{27}$$

$$\textcircled{4} \frac{1}{2} \times \frac{2}{5}$$

$$= \frac{\overset{1}{\cancel{1}} \times \overset{1}{\cancel{2}}}{\underset{1}{2} \times 5} = \frac{1}{5}$$

$$\textcircled{5} \frac{7}{4} \times \frac{16}{11}$$

$$= \frac{7 \times \overset{4}{\cancel{16}}}{\underset{1}{4} \times 11} = \frac{28}{11} \left(2 \frac{6}{11} \right)$$

$$\textcircled{6} \frac{5}{6} \times \frac{9}{10}$$

$$= \frac{\overset{1}{\cancel{5}} \times \overset{3}{\cancel{9}}}{\underset{2}{6} \times \underset{2}{\cancel{10}}} = \frac{3}{4}$$

$$\textcircled{7} \frac{5}{12} \times \frac{8}{15}$$

$$= \frac{\overset{1}{\cancel{5}} \times \overset{2}{\cancel{8}}}{\underset{3}{\cancel{12}} \times \underset{3}{\cancel{15}}} = \frac{2}{9}$$

$$\textcircled{8} \frac{10}{21} \times \frac{14}{15}$$

$$= \frac{\overset{2}{\cancel{10}} \times \overset{2}{\cancel{14}}}{\underset{3}{\cancel{21}} \times \underset{3}{\cancel{15}}} = \frac{4}{9}$$

$$\textcircled{9} \frac{8}{3} \times \frac{9}{2}$$

$$= \frac{\overset{4}{\cancel{8}} \times \overset{3}{\cancel{9}}}{\underset{1}{3} \times \underset{1}{\cancel{2}}} = 12$$

$$\textcircled{10} \frac{5}{6} \times \frac{6}{5}$$

$$= \frac{\overset{1}{\cancel{5}} \times \overset{1}{\cancel{6}}}{\underset{1}{\cancel{6}} \times \underset{1}{\cancel{5}}} = 1$$

◆ かけ算をしましょう。

$$\begin{aligned} \textcircled{1} \quad 1\frac{1}{7} \times \frac{3}{4} &= \frac{8}{7} \times \frac{3}{4} \\ &= \frac{\overset{2}{\cancel{8}} \times 3}{7 \times \underset{1}{\cancel{4}}} = \frac{6}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 1\frac{1}{5} \times \frac{2}{3} &= \frac{6}{5} \times \frac{2}{3} \\ &= \frac{\overset{2}{\cancel{6}} \times 2}{5 \times \underset{1}{\cancel{3}}} = \frac{4}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 1\frac{7}{9} \times 1\frac{7}{8} &= \frac{16}{9} \times \frac{15}{8} \\ &= \frac{\overset{2}{\cancel{16}} \times \overset{5}{\cancel{15}}}{\underset{3}{\cancel{9}} \times \underset{1}{\cancel{8}}} = \frac{10}{3} \left(3\frac{1}{3}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 2\frac{2}{9} \times 2\frac{2}{5} &= \frac{20}{9} \times \frac{12}{5} \\ &= \frac{\overset{4}{\cancel{20}} \times \overset{4}{\cancel{12}}}{\underset{3}{\cancel{9}} \times \underset{1}{\cancel{5}}} = \frac{16}{3} \left(5\frac{1}{3}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 1\frac{7}{8} \times 1\frac{1}{3} &= \frac{15}{8} \times \frac{4}{3} \\ &= \frac{\overset{5}{\cancel{15}} \times \overset{1}{\cancel{4}}}{\underset{2}{\cancel{8}} \times \underset{1}{\cancel{3}}} = \frac{5}{2} \left(2\frac{1}{2}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 2 \times \frac{2}{7} &= \frac{2}{1} \times \frac{2}{7} \\ &= \frac{2 \times 2}{1 \times 7} = \frac{4}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 5 \times \frac{1}{8} &= \frac{5}{1} \times \frac{1}{8} \\ &= \frac{5 \times 1}{1 \times 8} = \frac{5}{8} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad 3 \times \frac{8}{15} &= \frac{3}{1} \times \frac{8}{15} \\ &= \frac{\overset{1}{\cancel{3}} \times 8}{1 \times \underset{5}{\cancel{15}}} = \frac{8}{5} \left(1\frac{3}{5}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad \frac{7}{12} \times 9 &= \frac{7}{12} \times \frac{9}{1} \\ &= \frac{7 \times \overset{3}{\cancel{9}}}{\underset{4}{\cancel{12}} \times 1} = \frac{21}{4} \left(5\frac{1}{4}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad \frac{9}{16} \times 6 &= \frac{9}{16} \times \frac{6}{1} \\ &= \frac{9 \times \overset{3}{\cancel{6}}}{\underset{8}{\cancel{16}} \times 1} = \frac{27}{8} \left(3\frac{3}{8}\right) \end{aligned}$$

(分数)×(分数)のかけ算

◆ かけ算をしましょう。

$$\textcircled{1} \frac{1}{8} \times \frac{3}{4}$$

$$= \frac{1 \times 3}{8 \times 4} = \frac{3}{32}$$

$$\textcircled{2} \frac{9}{7} \times \frac{5}{2}$$

$$= \frac{9 \times 5}{7 \times 2} = \frac{45}{14} \left(3 \frac{3}{14} \right)$$

$$\textcircled{3} \frac{7}{8} \times \frac{4}{5}$$

$$= \frac{7 \times \overset{1}{\cancel{4}}}{\underset{2}{\cancel{8}} \times 5} = \frac{7}{10}$$

$$\textcircled{4} \frac{15}{16} \times \frac{12}{25}$$

$$= \frac{\overset{3}{\cancel{15}} \times \overset{3}{\cancel{12}}}{\underset{4}{\cancel{16}} \times \underset{5}{\cancel{25}}} = \frac{9}{20}$$

$$\textcircled{5} \frac{5}{6} \times 1 \frac{2}{7} = \frac{5}{6} \times \frac{9}{7}$$

$$= \frac{5 \times \overset{3}{\cancel{9}}}{\underset{2}{\cancel{6}} \times 7} = \frac{15}{14} \left(1 \frac{1}{14} \right)$$

$$\textcircled{6} 4 \frac{1}{5} \times 1 \frac{1}{9} = \frac{21}{5} \times \frac{10}{9}$$

$$= \frac{\overset{7}{\cancel{21}} \times \overset{2}{\cancel{10}}}{\underset{1}{\cancel{5}} \times \underset{3}{\cancel{9}}} = \frac{14}{3} \left(4 \frac{2}{3} \right)$$

$$\textcircled{7} 4 \times \frac{2}{9} = \frac{4}{1} \times \frac{2}{9}$$

$$= \frac{4 \times 2}{1 \times 9} = \frac{8}{9}$$

$$\textcircled{8} \frac{5}{18} \times 6 = \frac{5}{18} \times \frac{6}{1}$$

$$= \frac{5 \times \overset{1}{\cancel{6}}}{\underset{3}{\cancel{18}} \times 1} = \frac{5}{3} \left(1 \frac{2}{3} \right)$$

$$\textcircled{9} \frac{1}{4} \times \frac{3}{5} \times \frac{4}{9}$$

$$= \frac{\overset{1}{\cancel{1}} \times \overset{1}{\cancel{3}} \times \overset{1}{\cancel{4}}}{\underset{1}{\cancel{4}} \times 5 \times \underset{3}{\cancel{9}}} = \frac{1}{15}$$

$$\textcircled{10} 1 \frac{1}{5} \times 5 \times \frac{7}{9} = \frac{6}{5} \times \frac{5}{1} \times \frac{7}{9}$$

$$= \frac{\overset{2}{\cancel{6}} \times \overset{1}{\cancel{5}} \times 7}{\underset{1}{\cancel{5}} \times 1 \times \underset{3}{\cancel{9}}} = \frac{14}{3} \left(4 \frac{2}{3} \right)$$

(分数)÷(分数)のわり算
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◆ わり算をしましょう。

$$\begin{aligned} \textcircled{1} \quad \frac{2}{7} \div \frac{1}{3} &= \frac{2}{7} \times \frac{3}{1} \\ &= \frac{2 \times 3}{7 \times 1} = \frac{6}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{3}{8} \div \frac{2}{5} &= \frac{3}{8} \times \frac{5}{2} \\ &= \frac{3 \times 5}{8 \times 2} = \frac{15}{16} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{1}{6} \div \frac{4}{5} &= \frac{1}{6} \times \frac{5}{4} \\ &= \frac{1 \times 5}{6 \times 4} = \frac{5}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{4}{9} \div \frac{3}{2} &= \frac{4}{9} \times \frac{2}{3} \\ &= \frac{4 \times 2}{9 \times 3} = \frac{8}{27} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{1}{4} \div \frac{8}{9} &= \frac{1}{4} \times \frac{9}{8} \\ &= \frac{1 \times 9}{4 \times 8} = \frac{9}{32} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \frac{6}{5} \div \frac{1}{3} &= \frac{6}{5} \times \frac{3}{1} \\ &= \frac{6 \times 3}{5 \times 1} = \frac{18}{5} \left(3 \frac{3}{5} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad \frac{5}{9} \div \frac{1}{4} &= \frac{5}{9} \times \frac{4}{1} \\ &= \frac{5 \times 4}{9 \times 1} = \frac{20}{9} \left(2 \frac{2}{9} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad \frac{3}{5} \div \frac{2}{9} &= \frac{3}{5} \times \frac{9}{2} \\ &= \frac{3 \times 9}{5 \times 2} = \frac{27}{10} \left(2 \frac{7}{10} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad \frac{5}{7} \div \frac{3}{8} &= \frac{5}{7} \times \frac{8}{3} \\ &= \frac{5 \times 8}{7 \times 3} = \frac{40}{21} \left(1 \frac{19}{21} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad \frac{5}{4} \div \frac{7}{9} &= \frac{5}{4} \times \frac{9}{7} \\ &= \frac{5 \times 9}{4 \times 7} = \frac{45}{28} \left(1 \frac{17}{28} \right) \end{aligned}$$

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◆ わり算をしましょう。

$$\begin{aligned} \textcircled{1} \quad \frac{2}{3} \div \frac{4}{5} &= \frac{2}{3} \times \frac{5}{4} \\ &= \frac{\overset{1}{\cancel{2}} \times 5}{3 \times \underset{2}{\cancel{4}}} = \frac{5}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{5}{9} \div \frac{5}{8} &= \frac{5}{9} \times \frac{8}{5} \\ &= \frac{\overset{1}{\cancel{5}} \times 8}{9 \times \underset{1}{\cancel{5}}} = \frac{8}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{1}{6} \div \frac{2}{3} &= \frac{1}{6} \times \frac{3}{2} \\ &= \frac{1 \times \overset{1}{\cancel{3}}}{\underset{2}{\cancel{6}} \times 2} = \frac{1}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{9}{5} \div \frac{7}{10} &= \frac{9}{5} \times \frac{10}{7} \\ &= \frac{9 \times \overset{2}{\cancel{10}}}{\underset{1}{\cancel{5}} \times 7} = \frac{18}{7} \left(2 \frac{4}{7} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{5}{8} \div \frac{7}{12} &= \frac{5}{8} \times \frac{12}{7} \\ &= \frac{5 \times \overset{3}{\cancel{12}}}{\underset{2}{\cancel{8}} \times 7} = \frac{15}{14} \left(1 \frac{1}{14} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \frac{3}{2} \div \frac{9}{8} &= \frac{3}{2} \times \frac{8}{9} \\ &= \frac{\overset{1}{\cancel{3}} \times \overset{4}{\cancel{8}}}{\underset{1}{\cancel{2}} \times \underset{3}{\cancel{9}}} = \frac{4}{3} \left(1 \frac{1}{3} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad \frac{5}{12} \div \frac{10}{9} &= \frac{5}{12} \times \frac{9}{10} \\ &= \frac{\overset{1}{\cancel{5}} \times \overset{3}{\cancel{9}}}{\underset{4}{\cancel{12}} \times \underset{2}{\cancel{10}}} = \frac{3}{8} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad \frac{9}{14} \div \frac{15}{7} &= \frac{9}{14} \times \frac{7}{15} \\ &= \frac{\overset{3}{\cancel{9}} \times \overset{1}{\cancel{7}}}{\underset{2}{\cancel{14}} \times \underset{5}{\cancel{15}}} = \frac{3}{10} \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad \frac{8}{3} \div \frac{4}{21} &= \frac{8}{3} \times \frac{21}{4} \\ &= \frac{\overset{2}{\cancel{8}} \times \overset{7}{\cancel{21}}}{\underset{1}{\cancel{3}} \times \underset{1}{\cancel{4}}} = 14 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad \frac{27}{100} \div \frac{3}{20} &= \frac{27}{100} \times \frac{20}{3} \\ &= \frac{\overset{9}{\cancel{27}} \times \overset{1}{\cancel{20}}}{\underset{5}{\cancel{100}} \times \underset{1}{\cancel{3}}} = \frac{9}{5} \left(1 \frac{4}{5} \right) \end{aligned}$$

整数・帯分数をふくむわり算

◆ わり算をしましょう。

$$\begin{aligned} \textcircled{1} \quad 5 \div \frac{2}{3} &= \frac{5}{1} \times \frac{3}{2} \\ &= \frac{5 \times 3}{1 \times 2} = \frac{15}{2} \left(7 \frac{1}{2} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 3 \div \frac{5}{8} &= \frac{3}{1} \times \frac{8}{5} \\ &= \frac{3 \times 8}{1 \times 5} = \frac{24}{5} \left(4 \frac{4}{5} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 12 \div \frac{9}{8} &= \frac{12}{1} \times \frac{8}{9} \\ &= \frac{\overset{4}{\cancel{12}} \times 8}{1 \times \underset{3}{\cancel{9}}} = \frac{32}{3} \left(10 \frac{2}{3} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{8}{9} \div 4 &= \frac{8}{9} \times \frac{1}{4} \\ &= \frac{\overset{2}{\cancel{8}} \times 1}{9 \times \underset{1}{\cancel{4}}} = \frac{2}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{6}{7} \div 3 &= \frac{6}{7} \times \frac{1}{3} \\ &= \frac{\overset{2}{\cancel{6}} \times 1}{7 \times \underset{1}{\cancel{3}}} = \frac{2}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 1 \frac{3}{4} \div \frac{7}{9} &= \frac{7}{4} \times \frac{9}{7} \\ &= \frac{\overset{1}{\cancel{7}} \times 9}{4 \times \underset{1}{\cancel{7}}} = \frac{9}{4} \left(2 \frac{1}{4} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 2 \frac{1}{2} \div \frac{5}{7} &= \frac{5}{2} \times \frac{7}{5} \\ &= \frac{\overset{1}{\cancel{5}} \times 7}{2 \times \underset{1}{\cancel{5}}} = \frac{7}{2} \left(3 \frac{1}{2} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad \frac{14}{15} \div 2 \frac{2}{9} &= \frac{14}{15} \times \frac{9}{20} \\ &= \frac{\overset{7}{\cancel{14}} \times \overset{3}{\cancel{9}}}{\underset{5}{\cancel{15}} \times \underset{10}{\cancel{20}}} = \frac{21}{50} \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad 4 \frac{2}{3} \div 1 \frac{7}{9} &= \frac{14}{3} \times \frac{9}{16} \\ &= \frac{\overset{7}{\cancel{14}} \times \overset{3}{\cancel{9}}}{\underset{1}{\cancel{3}} \times \underset{8}{\cancel{16}}} = \frac{21}{8} \left(2 \frac{5}{8} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 1 \frac{7}{8} \div 1 \frac{11}{16} &= \frac{15}{8} \times \frac{16}{27} \\ &= \frac{\overset{5}{\cancel{15}} \times \overset{2}{\cancel{16}}}{\underset{1}{\cancel{8}} \times \underset{9}{\cancel{27}}} = \frac{10}{9} \left(1 \frac{1}{9} \right) \end{aligned}$$

(分数)÷(分数)のわり算

◆ わり算をしましょう。

$$\begin{aligned} \textcircled{1} \quad \frac{1}{4} \div \frac{2}{5} &= \frac{1}{4} \times \frac{5}{2} \\ &= \frac{1 \times 5}{4 \times 2} = \frac{5}{8} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{2}{9} \div \frac{5}{2} &= \frac{2}{9} \times \frac{2}{5} \\ &= \frac{2 \times 2}{9 \times 5} = \frac{4}{45} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{5}{7} \div \frac{7}{8} &= \frac{5}{7} \times \frac{8}{7} \\ &= \frac{5 \times 8}{7 \times 7} = \frac{40}{49} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{2}{3} \div \frac{5}{6} &= \frac{2}{3} \times \frac{6}{5} \\ &= \frac{2 \times \overset{2}{\cancel{6}}}{\underset{1}{\cancel{3}} \times 5} = \frac{4}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{8}{21} \div \frac{16}{9} &= \frac{8}{21} \times \frac{9}{16} \\ &= \frac{\overset{1}{\cancel{8}} \times \overset{3}{\cancel{9}}}{\underset{7}{\cancel{21}} \times \underset{2}{\cancel{16}}} = \frac{3}{14} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \frac{14}{15} \div \frac{21}{20} &= \frac{14}{15} \times \frac{20}{21} \\ &= \frac{\overset{2}{\cancel{14}} \times \overset{4}{\cancel{20}}}{\underset{3}{\cancel{15}} \times \underset{3}{\cancel{21}}} = \frac{8}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 7 \div \frac{4}{5} &= \frac{7}{1} \times \frac{5}{4} \\ &= \frac{7 \times 5}{1 \times 4} = \frac{35}{4} \left(8 \frac{3}{4} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad \frac{3}{8} \div 9 &= \frac{3}{8} \times \frac{1}{9} \\ &= \frac{\overset{1}{\cancel{3}} \times 1}{8 \times \underset{3}{\cancel{9}}} = \frac{1}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad 2 \frac{2}{3} \div \frac{4}{7} &= \frac{8}{3} \times \frac{7}{4} \\ &= \frac{\overset{2}{\cancel{8}} \times 7}{\underset{1}{\cancel{3}} \times \underset{1}{\cancel{4}}} = \frac{14}{3} \left(4 \frac{2}{3} \right) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 3 \frac{1}{5} \div 4 \frac{4}{5} &= \frac{16}{5} \times \frac{5}{24} \\ &= \frac{\overset{2}{\cancel{16}} \times \overset{1}{\cancel{5}}}{\underset{1}{\cancel{5}} \times \underset{3}{\cancel{24}}} = \frac{2}{3} \end{aligned}$$

分数のかけ算とわり算が混ざった計算

◆ 計算をしましょう。

$$\textcircled{1} \quad \frac{1}{2} \times \frac{3}{7} \div \frac{4}{5} = \frac{1}{2} \times \frac{3}{7} \times \frac{5}{4}$$

$$= \frac{1 \times 3 \times 5}{2 \times 7 \times 4} = \frac{15}{56}$$

$$\textcircled{2} \quad \frac{2}{3} \times \frac{1}{5} \div \frac{3}{7} = \frac{2}{3} \times \frac{1}{5} \times \frac{7}{3}$$

$$= \frac{2 \times 1 \times 7}{3 \times 5 \times 3} = \frac{14}{45}$$

$$\textcircled{3} \quad \frac{1}{4} \times \frac{5}{6} \div \frac{9}{4} = \frac{1}{4} \times \frac{5}{6} \times \frac{4}{9}$$

$$= \frac{1 \times 5 \times \overset{1}{\cancel{4}}}{\underset{1}{\cancel{4}} \times 6 \times 9} = \frac{5}{54}$$

$$\textcircled{4} \quad \frac{3}{8} \times \frac{4}{5} \div \frac{5}{9} = \frac{3}{8} \times \frac{4}{5} \times \frac{9}{5}$$

$$= \frac{3 \times \overset{1}{\cancel{4}} \times 9}{\underset{2}{\cancel{8}} \times 5 \times 5} = \frac{27}{50}$$

$$\textcircled{5} \quad \frac{5}{6} \times 2 \frac{1}{4} \div \frac{5}{7} = \frac{5}{6} \times \frac{9}{4} \times \frac{7}{5}$$

$$= \frac{\overset{1}{\cancel{5}} \times \overset{3}{\cancel{9}} \times 7}{\underset{2}{\cancel{6}} \times 4 \times \underset{1}{\cancel{5}}} = \frac{21}{8} \left(2 \frac{5}{8} \right)$$

$$\textcircled{6} \quad \frac{2}{9} \div \frac{1}{5} \times \frac{3}{5} = \frac{2}{9} \times \frac{5}{1} \times \frac{3}{5}$$

$$= \frac{2 \times \overset{1}{\cancel{5}} \times \overset{1}{\cancel{3}}}{\underset{3}{\cancel{9}} \times 1 \times \underset{1}{\cancel{5}}} = \frac{2}{3}$$

$$\textcircled{7} \quad \frac{3}{5} \div \frac{6}{7} \times \frac{5}{8} = \frac{3}{5} \times \frac{7}{6} \times \frac{5}{8}$$

$$= \frac{\overset{1}{\cancel{3}} \times 7 \times \overset{1}{\cancel{5}}}{\underset{2}{\cancel{5}} \times \underset{2}{\cancel{6}} \times 8} = \frac{7}{16}$$

$$\textcircled{8} \quad 1 \frac{1}{8} \div \frac{3}{5} \times \frac{4}{5} = \frac{9}{8} \times \frac{5}{3} \times \frac{4}{5}$$

$$= \frac{\overset{3}{\cancel{9}} \times \overset{1}{\cancel{5}} \times \overset{1}{\cancel{4}}}{\underset{2}{\cancel{8}} \times \underset{1}{\cancel{3}} \times \underset{1}{\cancel{5}}} = \frac{3}{2} \left(1 \frac{1}{2} \right)$$

$$\textcircled{9} \quad \frac{6}{7} \div 6 \times \frac{14}{9} = \frac{6}{7} \times \frac{1}{6} \times \frac{14}{9}$$

$$= \frac{\overset{1}{\cancel{6}} \times 1 \times \overset{2}{\cancel{14}}}{\underset{1}{\cancel{7}} \times \underset{1}{\cancel{6}} \times 9} = \frac{2}{9}$$

$$\textcircled{10} \quad \frac{6}{5} \div 4 \times \frac{15}{7} = \frac{6}{5} \times \frac{1}{4} \times \frac{15}{7}$$

$$= \frac{\overset{3}{\cancel{6}} \times 1 \times \overset{3}{\cancel{15}}}{\underset{1}{\cancel{5}} \times \underset{2}{\cancel{4}} \times 7} = \frac{9}{14}$$

◆ 計算をしましょう。

$$\textcircled{1} \quad \frac{1}{2} \div \frac{2}{7} \div \frac{3}{5} = \frac{1}{2} \times \frac{7}{2} \times \frac{5}{3} = \frac{1 \times 7 \times 5}{2 \times 2 \times 3} = \frac{35}{12} \left(2 \frac{11}{12} \right)$$

$$\textcircled{2} \quad \frac{4}{5} \div \frac{8}{9} \div \frac{5}{7} = \frac{4}{5} \times \frac{9}{8} \times \frac{7}{5} = \frac{4 \times 9 \times 7}{5 \times 8 \times 5} = \frac{63}{50} \left(1 \frac{13}{50} \right)$$

$$\textcircled{3} \quad \frac{2}{3} \div \frac{6}{7} \div \frac{7}{2} = \frac{2}{3} \times \frac{7}{6} \times \frac{2}{7} = \frac{2 \times 7 \times 2}{3 \times 6 \times 7} = \frac{2}{9}$$

$$\textcircled{4} \quad \frac{5}{3} \div \frac{5}{8} \div \frac{4}{7} = \frac{5}{3} \times \frac{8}{5} \times \frac{7}{4} = \frac{5 \times 8 \times 7}{3 \times 5 \times 4} = \frac{14}{3} \left(4 \frac{2}{3} \right)$$

$$\textcircled{5} \quad 1 \frac{1}{7} \div \frac{5}{21} \div \frac{4}{5} = \frac{8}{7} \times \frac{21}{5} \times \frac{5}{4} = \frac{8 \times 21 \times 5}{7 \times 5 \times 4} = 6$$

$$\textcircled{6} \quad \frac{4}{5} \div \frac{9}{25} \div 2 \frac{2}{3} = \frac{4}{5} \times \frac{25}{9} \times \frac{3}{8} = \frac{4 \times 25 \times 3}{5 \times 9 \times 8} = \frac{5}{6}$$

$$\textcircled{7} \quad \frac{7}{4} \div \frac{14}{9} \div 3 = \frac{7}{4} \times \frac{9}{14} \times \frac{1}{3} = \frac{7 \times 9 \times 1}{4 \times 14 \times 3} = \frac{3}{8}$$

$$\textcircled{8} \quad \frac{5}{9} \div \frac{15}{4} \div 6 = \frac{5}{9} \times \frac{4}{15} \times \frac{1}{6} = \frac{5 \times 4 \times 1}{9 \times 15 \times 6} = \frac{2}{81}$$

$$\textcircled{9} \quad 1 \frac{3}{4} \div 7 \div \frac{5}{8} = \frac{7}{4} \times \frac{1}{7} \times \frac{8}{5} = \frac{7 \times 1 \times 8}{4 \times 7 \times 5} = \frac{2}{5}$$

$$\textcircled{10} \quad \frac{5}{6} \div 3 \div 1 \frac{2}{3} = \frac{5}{6} \times \frac{1}{3} \times \frac{3}{5} = \frac{5 \times 1 \times 3}{6 \times 3 \times 5} = \frac{1}{6}$$

◆ 計算をしましょう。

$$\textcircled{1} \quad \frac{2}{5} \times \frac{2}{9} \div \frac{1}{4} = \frac{2}{5} \times \frac{2}{9} \times \frac{4}{1}$$

$$= \frac{2 \times 2 \times 4}{5 \times 9 \times 1} = \frac{16}{45}$$

$$\textcircled{2} \quad \frac{1}{3} \times \frac{2}{7} \div \frac{5}{9} = \frac{1}{3} \times \frac{2}{7} \times \frac{9}{5}$$

$$= \frac{1 \times 2 \times \overset{3}{\cancel{9}}}{\underset{1}{\cancel{3}} \times 7 \times 5} = \frac{6}{35}$$

$$\textcircled{3} \quad \frac{4}{7} \times 4 \frac{1}{2} \div \frac{3}{5} = \frac{4}{7} \times \frac{9}{2} \times \frac{5}{3}$$

$$= \frac{\overset{2}{\cancel{4}} \times \overset{3}{\cancel{9}} \times 5}{7 \times \underset{1}{\cancel{2}} \times \underset{1}{\cancel{3}}} = \frac{30}{7} \left(4 \frac{2}{7} \right)$$

$$\textcircled{4} \quad \frac{7}{8} \div \frac{1}{4} \times \frac{3}{7} = \frac{7}{8} \times \frac{4}{1} \times \frac{3}{7}$$

$$= \frac{\underset{1}{\cancel{7}} \times \underset{1}{\cancel{4}} \times 3}{\underset{2}{\cancel{8}} \times 1 \times \underset{1}{\cancel{7}}} = \frac{3}{2} \left(1 \frac{1}{2} \right)$$

$$\textcircled{5} \quad 1 \frac{3}{4} \div \frac{7}{9} \times \frac{2}{3} = \frac{7}{4} \times \frac{9}{7} \times \frac{2}{3}$$

$$= \frac{\underset{1}{\cancel{7}} \times \overset{3}{\cancel{9}} \times \underset{1}{\cancel{2}}}{\underset{2}{\cancel{4}} \times \underset{1}{\cancel{7}} \times \underset{1}{\cancel{3}}} = \frac{3}{2} \left(1 \frac{1}{2} \right)$$

$$\textcircled{6} \quad \frac{5}{9} \div 5 \times \frac{18}{7} = \frac{5}{9} \times \frac{1}{5} \times \frac{18}{7}$$

$$= \frac{\underset{1}{\cancel{5}} \times 1 \times \overset{2}{\cancel{18}}}{\underset{1}{\cancel{9}} \times \underset{1}{\cancel{5}} \times 7} = \frac{2}{7}$$

$$\textcircled{7} \quad \frac{5}{6} \div \frac{4}{9} \div \frac{5}{7} = \frac{5}{6} \times \frac{9}{4} \times \frac{7}{5}$$

$$= \frac{\underset{1}{\cancel{5}} \times \overset{3}{\cancel{9}} \times 7}{\underset{2}{\cancel{6}} \times 4 \times \underset{1}{\cancel{5}}} = \frac{21}{8} \left(2 \frac{5}{8} \right)$$

$$\textcircled{8} \quad \frac{5}{8} \div 2 \frac{1}{4} \div \frac{5}{21} = \frac{5}{8} \times \frac{4}{9} \times \frac{21}{5}$$

$$= \frac{\underset{1}{\cancel{5}} \times \underset{1}{\cancel{4}} \times \overset{7}{\cancel{21}}}{\underset{2}{\cancel{8}} \times \underset{3}{\cancel{9}} \times \underset{1}{\cancel{5}}} = \frac{7}{6} \left(1 \frac{1}{6} \right)$$

$$\textcircled{9} \quad \frac{8}{9} \div \frac{16}{7} \div 7 = \frac{8}{9} \times \frac{7}{16} \times \frac{1}{7}$$

$$= \frac{\underset{1}{\cancel{8}} \times \underset{1}{\cancel{7}} \times 1}{\underset{2}{\cancel{9}} \times \underset{1}{\cancel{16}} \times \underset{1}{\cancel{7}}} = \frac{1}{18}$$

$$\textcircled{10} \quad 1 \frac{4}{5} \div 3 \div \frac{4}{5} = \frac{9}{5} \times \frac{1}{3} \times \frac{5}{4}$$

$$= \frac{\overset{3}{\cancel{9}} \times 1 \times \underset{1}{\cancel{5}}}{\underset{1}{\cancel{5}} \times \underset{1}{\cancel{3}} \times 4} = \frac{3}{4}$$