

・次の計算をしましょう。

<例>

$$\textcircled{1} \quad 3 \times \frac{3}{14} = \frac{3}{1} \times \frac{3}{14}$$

分数のかけ算は
分母は分母どうし
分子は分子どうし

$$= \frac{9}{14}$$

$$\textcircled{2} \quad \frac{4}{5} \times \frac{2}{7} = \frac{8}{35}$$

かけ算する。

$$\text{整数} = \frac{\text{整数}}{1}$$

《練習》

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

$$= \frac{10}{9} = 1\frac{1}{9}$$

$$\textcircled{2} \quad \frac{7}{12} \times \frac{1}{3} = \frac{7}{36}$$

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

$$= \frac{24}{5} = 4\frac{4}{5}$$

$$\textcircled{2} \quad \frac{4}{11} \times 2 = \frac{4}{11} \times \frac{2}{1}$$

$$= \frac{8}{11}$$

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

$$= \frac{56}{9} = 6\frac{2}{9}$$

$$\textcircled{4} \quad \frac{5}{13} \times 1 = \frac{5}{13} \times \frac{1}{1}$$

$$= \frac{5}{13}$$

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

$$\textcircled{6} \quad \frac{7}{10} \times \frac{1}{3} = \frac{7}{30}$$

$$\textcircled{7} \quad \frac{7}{4} \times \frac{11}{9} = \frac{77}{36} = 2\frac{5}{36}$$

$$\textcircled{8} \quad \frac{13}{5} \times \frac{13}{12} = \frac{169}{60} = 2\frac{49}{60}$$

$$\textcircled{9} \quad 12 \times \frac{4}{7} = \frac{12}{1} \times \frac{4}{7}$$

$$= \frac{48}{7} = 6\frac{6}{7}$$

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

$$= \frac{20}{9} = 2\frac{2}{9}$$

$$\textcircled{11} \quad \frac{6}{13} \times 9 = \frac{6}{13} \times \frac{9}{1}$$

$$= \frac{54}{13} = 4\frac{2}{13}$$

$$\textcircled{12} \quad \frac{7}{15} \times 4 = \frac{7}{15} \times \frac{4}{1}$$

$$= \frac{28}{15} = 1\frac{13}{15}$$

$$\textcircled{13} \quad \frac{2}{17} \times 6 = \frac{2}{17} \times \frac{6}{1}$$

$$= \frac{12}{17}$$

$$\textcircled{14} \quad 15 \times \frac{5}{8} = \frac{15}{1} \times \frac{5}{8}$$

$$= \frac{75}{8} = 9\frac{3}{8}$$

$$\textcircled{15} \quad \frac{1}{2} \times \frac{7}{9} = \frac{7}{18}$$

$$\textcircled{16} \quad \frac{11}{8} \times \frac{5}{3} = \frac{55}{24} = 2\frac{7}{24}$$

$$\textcircled{17} \quad \frac{3}{5} \times \frac{9}{7} = \frac{27}{35}$$

$$\textcircled{18} \quad \frac{7}{11} \times \frac{13}{6} = \frac{91}{66} = 1\frac{25}{66}$$

$$\textcircled{19} \quad \frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$$

$$\textcircled{20} \quad \frac{17}{10} \times \frac{11}{12} = \frac{187}{120} = 1\frac{67}{120}$$

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<例>

$$\begin{aligned} \textcircled{1} \quad 4 \times \frac{3}{8} &= \frac{\cancel{4}^1}{1} \times \frac{3}{\cancel{8}_2} \\ &= \frac{3}{2} = 1\frac{1}{2} \end{aligned}$$

計算の途中で
約分できる。

$$\textcircled{2} \quad \frac{\cancel{7}^1}{18} \times \frac{5}{\cancel{14}_2} = \frac{5}{36}$$

<練習>

$$\textcircled{1} \quad \frac{2}{5} \times 15 = \frac{2}{\cancel{5}_1} \times \frac{\cancel{15}^3}{1} = \frac{6}{1} = 6$$

$$\textcircled{2} \quad \frac{8}{\cancel{9}_3} \times \frac{\cancel{3}^1}{5} = \frac{8}{15}$$

$$\textcircled{1} \quad 2 \times \frac{9}{14} = \frac{\cancel{2}^1}{1} \times \frac{9}{\cancel{14}_7} = \frac{9}{7} = 1\frac{2}{7}$$

$$\textcircled{2} \quad \frac{11}{28} \times 7 = \frac{11}{\cancel{28}_4} \times \frac{\cancel{7}^1}{1} = \frac{11}{4} = 2\frac{3}{4}$$

$$\textcircled{3} \quad 18 \times \frac{2}{3} = \frac{\cancel{18}^6}{1} \times \frac{2}{\cancel{3}_1} = \frac{12}{1} = 12$$

$$\textcircled{4} \quad \frac{3}{4} \times 16 = \frac{3}{\cancel{4}_1} \times \frac{\cancel{16}^4}{1} = \frac{12}{1} = 12$$

$$\textcircled{5} \quad \frac{7}{\cancel{12}_4} \times \frac{\cancel{3}^1}{5} = \frac{7}{20}$$

$$\textcircled{6} \quad \frac{\cancel{4}^1}{9} \times \frac{13}{\cancel{20}_5} = \frac{13}{45}$$

$$\textcircled{7} \quad \frac{\cancel{6}^3}{7} \times \frac{11}{\cancel{14}_7} = \frac{33}{49}$$

$$\textcircled{8} \quad \frac{\cancel{18}^3}{19} \times \frac{5}{\cancel{24}_4} = \frac{15}{76}$$

$$\textcircled{9} \quad 8 \times \frac{1}{6} = \frac{\cancel{8}^4}{1} \times \frac{1}{\cancel{6}_3} = \frac{4}{3} = 1\frac{1}{3}$$

$$\textcircled{10} \quad \frac{5}{21} \times 36 = \frac{5}{\cancel{21}_7} \times \frac{\cancel{36}^{12}}{1} = \frac{60}{7} = 8\frac{4}{7}$$

$$\textcircled{11} \quad \frac{7}{18} \times 30 = \frac{7}{\cancel{18}_3} \times \frac{\cancel{30}^5}{1} = \frac{35}{3} = 11\frac{2}{3}$$

$$\textcircled{12} \quad 9 \times \frac{19}{72} = \frac{\cancel{9}^1}{1} \times \frac{19}{\cancel{72}_8} = \frac{19}{8} = 2\frac{3}{8}$$

$$\textcircled{13} \quad 12 \times \frac{3}{4} = \frac{\cancel{12}^3}{1} \times \frac{3}{\cancel{4}_1} = \frac{9}{1} = 9$$

$$\textcircled{14} \quad 28 \times \frac{11}{14} = \frac{\cancel{28}^2}{1} \times \frac{11}{\cancel{14}_1} = \frac{22}{1} = 22$$

$$\textcircled{15} \quad \frac{7}{15} \times \frac{\cancel{9}^3}{13} = \frac{21}{65}$$

$$\textcircled{16} \quad \frac{\cancel{18}^3}{10} \times \frac{1}{\cancel{24}_4} = \frac{3}{40}$$

$$\textcircled{17} \quad \frac{31}{50} \times \frac{10}{21} = \frac{31}{105}$$

$$\textcircled{18} \quad \frac{8}{\cancel{33}_3} \times \frac{\cancel{22}^2}{17} = \frac{16}{51}$$

$$\textcircled{19} \quad \frac{\cancel{21}^3}{4} \times \frac{25}{\cancel{49}_7} = \frac{75}{28} = 2\frac{19}{28}$$

$$\textcircled{20} \quad \frac{\cancel{56}^7}{19} \times \frac{3}{\cancel{64}_8} = \frac{21}{152}$$

・次の計算をしましょう。

<例>

$$\frac{\cancel{8}^1}{\cancel{9}_3} \times \frac{\cancel{3}^1}{\cancel{16}_2} = \frac{1}{6}$$

<練習>

$$\frac{\cancel{5}^1}{\cancel{12}_2} \times \frac{\cancel{18}^3}{\cancel{25}_5} = \frac{3}{10}$$

$$\textcircled{1} \quad \frac{\cancel{2}^1}{\cancel{9}_3} \times \frac{\cancel{3}^1}{\cancel{8}_4} = \frac{1}{12}$$

$$\textcircled{2} \quad \frac{\cancel{5}^1}{\cancel{16}_4} \times \frac{\cancel{4}^1}{\cancel{35}_7} = \frac{1}{28}$$

$$\textcircled{3} \quad \frac{\cancel{14}^2}{\cancel{45}_5} \times \frac{\cancel{18}^2}{\cancel{49}_7} = \frac{4}{35}$$

$$\textcircled{4} \quad \frac{\cancel{4}^2}{\cancel{81}_9} \times \frac{\cancel{27}^3}{\cancel{10}_5} = \frac{2}{15}$$

$$\textcircled{5} \quad \frac{\cancel{15}^5}{\cancel{2}_1} \times \frac{\cancel{16}^8}{\cancel{3}_1} = \frac{40}{1} = 40$$

$$\textcircled{6} \quad \frac{\cancel{18}^3}{\cancel{5}_1} \times \frac{\cancel{25}^5}{\cancel{6}_1} = \frac{15}{1} = 15$$

$$\textcircled{7} \quad \frac{\cancel{3}^1}{\cancel{4}_2} \times \frac{\cancel{22}^{11}}{\cancel{15}_5} = \frac{11}{10} = 1\frac{1}{10}$$

$$\textcircled{8} \quad \frac{\cancel{10}^7}{\cancel{27}_3} \times \frac{\cancel{63}^7}{\cancel{40}_8} = \frac{7}{12}$$

$$\textcircled{9} \quad \frac{\cancel{7}^1}{\cancel{18}_9} \times \frac{\cancel{2}^1}{\cancel{21}_3} = \frac{1}{27}$$

$$\textcircled{10} \quad \frac{\cancel{10}^2}{\cancel{45}_5} \times \frac{\cancel{18}^2}{\cancel{35}_7} = \frac{4}{35}$$

$$\textcircled{11} \quad \frac{\cancel{5}^1}{\cancel{42}_7} \times \frac{\cancel{12}^2}{\cancel{55}_{11}} = \frac{2}{77}$$

$$\textcircled{12} \quad \frac{\cancel{6}^2}{\cancel{13}_1} \times \frac{\cancel{13}^1}{\cancel{27}_9} = \frac{2}{9}$$

$$\textcircled{13} \quad \frac{\cancel{12}^3}{\cancel{17}_1} \times \frac{\cancel{17}^1}{\cancel{32}_8} = \frac{3}{8}$$

$$\textcircled{14} \quad \frac{\cancel{81}^9}{\cancel{56}_8} \times \frac{\cancel{49}^7}{\cancel{18}_2} = \frac{63}{16} = 3\frac{15}{16}$$

$$\textcircled{15} \quad \frac{\cancel{77}^7}{\cancel{90}_3} \times \frac{10}{\cancel{33}_3} = \frac{7}{27}$$

$$\textcircled{16} \quad \frac{\cancel{33}^{11}}{\cancel{64}_8} \times \frac{\cancel{40}^5}{\cancel{39}_{13}} = \frac{55}{104}$$

$$\textcircled{17} \quad \frac{\cancel{13}^1}{\cancel{72}_8} \times \frac{\cancel{27}^3}{\cancel{52}_4} = \frac{3}{32}$$

$$\textcircled{18} \quad \frac{\cancel{5}^1}{\cancel{36}_{12}} \times \frac{\cancel{3}^1}{\cancel{25}_5} = \frac{1}{60}$$

$$\textcircled{19} \quad \frac{\cancel{11}^1}{\cancel{42}_{21}} \times \frac{\cancel{8}^4}{\cancel{11}_1} = \frac{4}{21}$$

$$\textcircled{20} \quad \frac{\cancel{15}^3}{\cancel{7}_1} \times \frac{\cancel{63}^9}{\cancel{40}_8} = \frac{27}{8} = 3\frac{3}{8}$$

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<例>

$$\textcircled{1} \quad 5 \times 1\frac{1}{3} = \frac{5}{1} \times \frac{4}{3} \\ = \frac{20}{3} = 6\frac{2}{3}$$

帯分数は仮分数になおしてから、かけ算する。

$$\textcircled{2} \quad 2\frac{3}{4} \times 2 = \frac{11}{4} \times \frac{2}{1} \\ = \frac{11}{2} = 5\frac{1}{2}$$

約分できるものは計算の途中で約分する。

<練習>

$$\textcircled{1} \quad 4\frac{2}{7} \times 21 = \frac{30}{7} \times \frac{21}{1} \\ = \frac{90}{1} = 90$$

$$\textcircled{2} \quad 3\frac{1}{3} \times 7 = \frac{10}{3} \times \frac{7}{1} \\ = \frac{70}{3} = 23\frac{1}{3}$$

$$\textcircled{1} \quad 6 \times 2\frac{2}{3} = \frac{6^2}{1} \times \frac{8}{3} \\ = \frac{16}{1} = 16$$

$$\textcircled{2} \quad 3\frac{7}{10} \times 8 = \frac{37}{10} \times \frac{8^4}{1} \\ = \frac{148}{5} = 29\frac{3}{5}$$

$$\textcircled{3} \quad 5\frac{1}{4} \times 9 = \frac{21}{4} \times \frac{9}{1} \\ = \frac{189}{4} = 47\frac{1}{4}$$

$$\textcircled{4} \quad 4 \times 1\frac{2}{5} = \frac{4}{1} \times \frac{7}{5} \\ = \frac{28}{5} = 5\frac{3}{5}$$

$$\textcircled{5} \quad 7\frac{5}{6} \times 12 = \frac{47}{6} \times \frac{12^2}{1} \\ = \frac{94}{1} = 94$$

$$\textcircled{6} \quad 24 \times 3\frac{1}{2} = \frac{24^{12}}{1} \times \frac{7}{2} \\ = \frac{84}{1} = 84$$

$$\textcircled{7} \quad 15 \times 4\frac{7}{9} = \frac{15^5}{1} \times \frac{43}{9} \\ = \frac{215}{3} = 71\frac{2}{3}$$

$$\textcircled{8} \quad 6\frac{3}{8} \times 2 = \frac{51}{8} \times \frac{2^1}{1} \\ = \frac{51}{4} = 12\frac{3}{4}$$

$$\textcircled{9} \quad 2\frac{5}{6} \times 18 = \frac{17}{6} \times \frac{18^3}{1} \\ = \frac{51}{1} = 51$$

$$\textcircled{10} \quad 4 \times 3\frac{2}{7} = \frac{4}{1} \times \frac{23}{7} \\ = \frac{92}{7} = 13\frac{1}{7}$$

$$\textcircled{11} \quad 7 \times 5\frac{4}{21} = \frac{7^1}{1} \times \frac{109}{21} \\ = \frac{109}{3} = 36\frac{1}{3}$$

$$\textcircled{12} \quad 1\frac{7}{12} \times 12 = \frac{19}{12} \times \frac{12^1}{1} \\ = \frac{19}{1} = 19$$

$$\textcircled{13} \quad 8 \times 3\frac{1}{9} = \frac{8}{1} \times \frac{28}{9} \\ = \frac{224}{9} = 24\frac{8}{9}$$

$$\textcircled{14} \quad 2\frac{3}{5} \times 15 = \frac{13}{5} \times \frac{15^3}{1} \\ = \frac{39}{1} = 39$$

$$\textcircled{15} \quad 4\frac{5}{8} \times 1 = \frac{37}{8} \times \frac{1}{1} \\ = 4\frac{5}{8}$$

$$\textcircled{16} \quad 3 \times 5\frac{2}{9} = \frac{3^1}{1} \times \frac{47}{9} \\ = \frac{47}{3} = 15\frac{2}{3}$$

$$\textcircled{17} \quad 6 \times 7\frac{4}{5} = \frac{6}{1} \times \frac{39}{5} \\ = \frac{234}{5} = 46\frac{4}{5}$$

$$\textcircled{18} \quad 10 \times 1\frac{7}{45} = \frac{10^2}{1} \times \frac{52}{45} \\ = \frac{104}{9} = 11\frac{5}{9}$$

$$\textcircled{19} \quad 3\frac{1}{3} \times 9 = \frac{10}{3} \times \frac{9^3}{1} \\ = \frac{30}{1} = 30$$

$$\textcircled{20} \quad 6\frac{2}{7} \times 4 = \frac{44}{7} \times \frac{4}{1} \\ = \frac{176}{7} = 25\frac{1}{7}$$

・次の計算をしましょう。

<例>

$$\begin{aligned} \textcircled{1} \quad \frac{2}{9} \times 1\frac{2}{5} &= \frac{2}{9} \times \frac{7}{5} \\ &= \frac{14}{45} \\ \textcircled{2} \quad 2\frac{2}{3} \times \frac{1}{4} &= \frac{8}{3} \times \frac{1}{4} \\ &= \frac{2}{3} \end{aligned}$$

帯分数は仮分数になおしてから、かけ算する。
約分できるものは計算の途中で約分する。

《練習》

$$\begin{aligned} \textcircled{1} \quad 2\frac{3}{5} \times \frac{1}{2} &= \frac{13}{5} \times \frac{1}{2} \\ &= \frac{13}{10} = 1\frac{3}{10} \\ \textcircled{2} \quad 3\frac{4}{7} \times \frac{3}{5} &= \frac{25}{7} \times \frac{3}{5} \\ &= \frac{15}{7} = 2\frac{1}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{1} \quad 4\frac{1}{2} \times \frac{5}{6} &= \frac{9}{2} \times \frac{5}{6} \\ &= \frac{15}{4} = 3\frac{3}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{7}{8} \times 1\frac{3}{14} &= \frac{7}{8} \times \frac{17}{14} \\ &= \frac{17}{16} = 1\frac{1}{16} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{9}{10} \times 2\frac{1}{3} &= \frac{9}{10} \times \frac{7}{3} \\ &= \frac{21}{10} = 2\frac{1}{10} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 2\frac{4}{15} \times \frac{8}{17} &= \frac{34}{15} \times \frac{8}{17} \\ &= \frac{16}{15} = 1\frac{1}{15} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 3\frac{1}{4} \times \frac{1}{2} &= \frac{13}{4} \times \frac{1}{2} \\ &= \frac{13}{8} = 1\frac{5}{8} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \frac{3}{5} \times 1\frac{3}{7} &= \frac{3}{5} \times \frac{10}{7} \\ &= \frac{6}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 2\frac{5}{12} \times \frac{8}{5} &= \frac{29}{12} \times \frac{8}{5} \\ &= \frac{58}{15} = 3\frac{13}{15} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad \frac{2}{9} \times 3\frac{4}{9} &= \frac{2}{9} \times \frac{31}{9} \\ &= \frac{62}{81} \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad \frac{3}{8} \times 2\frac{3}{7} &= \frac{3}{8} \times \frac{17}{7} \\ &= \frac{51}{56} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 4\frac{1}{4} \times \frac{10}{13} &= \frac{17}{4} \times \frac{10}{13} \\ &= \frac{85}{26} = 3\frac{7}{26} \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad \frac{5}{12} \times 1\frac{1}{17} &= \frac{5}{12} \times \frac{18}{17} \\ &= \frac{15}{34} \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad 2\frac{4}{11} \times \frac{2}{3} &= \frac{26}{11} \times \frac{2}{3} \\ &= \frac{52}{33} = 1\frac{19}{33} \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad 3\frac{1}{8} \times \frac{7}{20} &= \frac{25}{8} \times \frac{7}{20} \\ &= \frac{35}{32} = 1\frac{3}{32} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad \frac{8}{15} \times 1\frac{5}{7} &= \frac{8}{15} \times \frac{12}{7} \\ &= \frac{32}{35} \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad \frac{4}{9} \times 4\frac{2}{5} &= \frac{4}{9} \times \frac{22}{5} \\ &= \frac{88}{45} = 1\frac{43}{45} \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad 1\frac{3}{13} \times \frac{3}{8} &= \frac{16}{13} \times \frac{3}{8} \\ &= \frac{6}{13} \end{aligned}$$

$$\begin{aligned} \textcircled{17} \quad 5\frac{1}{2} \times \frac{9}{44} &= \frac{11}{2} \times \frac{9}{44} \\ &= \frac{9}{8} = 1\frac{1}{8} \end{aligned}$$

$$\begin{aligned} \textcircled{18} \quad \frac{6}{7} \times 2\frac{2}{5} &= \frac{6}{7} \times \frac{12}{5} \\ &= \frac{72}{35} = 2\frac{2}{35} \end{aligned}$$

$$\begin{aligned} \textcircled{19} \quad 1\frac{5}{8} \times \frac{5}{39} &= \frac{13}{8} \times \frac{5}{39} \\ &= \frac{5}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{20} \quad \frac{7}{12} \times 3\frac{1}{5} &= \frac{7}{12} \times \frac{16}{5} \\ &= \frac{28}{15} = 1\frac{13}{15} \end{aligned}$$

・次の計算をしましょう。

<例>

$$\frac{2}{5} \times 3\frac{3}{4} = \frac{\overset{1}{\cancel{2}}}{\underset{1}{\cancel{5}}} \times \frac{\overset{3}{15}}{\underset{2}{\cancel{4}}} \leftarrow \begin{array}{l} \text{帯分数} \Rightarrow \text{仮分数} \\ \text{約分} \end{array}$$

$$= \frac{3}{2} = 1\frac{1}{2} \leftarrow \text{帯分数に}$$

<練習>

$$1\frac{5}{8} \times \frac{6}{13} = \frac{\overset{1}{\cancel{13}}}{\underset{4}{\cancel{8}}} \times \frac{\overset{3}{\cancel{6}}}{\underset{1}{\cancel{13}}}$$

$$= \frac{3}{4}$$

$$\textcircled{1} \quad 2\frac{1}{2} \times \frac{8}{15} = \frac{\overset{1}{\cancel{5}}}{\underset{1}{\cancel{2}}} \times \frac{\overset{4}{\cancel{8}}}{\underset{3}{\cancel{15}}}$$

$$= \frac{4}{3} = 1\frac{1}{3}$$

$$\textcircled{2} \quad \frac{9}{16} \times 1\frac{7}{15} = \frac{\overset{3}{\cancel{9}}}{\underset{8}{\cancel{16}}} \times \frac{\overset{11}{22}}{\underset{5}{\cancel{15}}}$$

$$= \frac{33}{40}$$

$$\textcircled{9} \quad 4\frac{3}{8} \times \frac{36}{49} = \frac{\overset{5}{\cancel{35}}}{\underset{2}{\cancel{8}}} \times \frac{\overset{9}{\cancel{36}}}{\underset{7}{\cancel{49}}}$$

$$= \frac{45}{14} = 3\frac{3}{14}$$

$$\textcircled{10} \quad \frac{50}{81} \times 1\frac{11}{16} = \frac{\overset{25}{\cancel{50}}}{\underset{3}{\cancel{81}}} \times \frac{\overset{3}{27}}{\underset{8}{\cancel{16}}}$$

$$= \frac{25}{24} = 1\frac{1}{24}$$

$$\textcircled{11} \quad \frac{7}{12} \times 2\frac{2}{35} = \frac{\overset{1}{\cancel{7}}}{\underset{6}{\cancel{12}}} \times \frac{\overset{36}{72}}{\underset{5}{\cancel{35}}}$$

$$= \frac{6}{5} = 1\frac{1}{5}$$

$$\textcircled{12} \quad 2\frac{4}{33} \times \frac{44}{63} = \frac{\overset{10}{70}}{\underset{3}{\cancel{33}}} \times \frac{\overset{4}{44}}{\underset{9}{\cancel{63}}}$$

$$= \frac{40}{27} = 1\frac{13}{27}$$

$$\textcircled{3} \quad \frac{12}{25} \times 3\frac{1}{3} = \frac{\overset{4}{\cancel{12}}}{\underset{5}{\cancel{25}}} \times \frac{\overset{2}{10}}{\underset{1}{\cancel{3}}}$$

$$= \frac{8}{5} = 1\frac{3}{5}$$

$$\textcircled{4} \quad 3\frac{3}{5} \times \frac{35}{36} = \frac{\overset{1}{\cancel{18}}}{\underset{1}{\cancel{5}}} \times \frac{\overset{7}{35}}{\underset{2}{\cancel{36}}}$$

$$= \frac{7}{2} = 3\frac{1}{2}$$

$$\textcircled{13} \quad 3\frac{1}{5} \times \frac{15}{22} = \frac{\overset{8}{16}}{\underset{1}{\cancel{5}}} \times \frac{\overset{3}{15}}{\underset{11}{\cancel{22}}}$$

$$= \frac{24}{11} = 2\frac{2}{11}$$

$$\textcircled{14} \quad 5\frac{3}{7} \times \frac{14}{19} = \frac{\overset{2}{38}}{\underset{1}{\cancel{7}}} \times \frac{\overset{2}{14}}{\underset{1}{\cancel{19}}}$$

$$= \frac{4}{1} = 4$$

$$\textcircled{5} \quad \frac{4}{29} \times 4\frac{5}{6} = \frac{\overset{2}{\cancel{4}}}{\underset{1}{\cancel{29}}} \times \frac{\overset{1}{29}}{\underset{3}{\cancel{6}}}$$

$$= \frac{2}{3}$$

$$\textcircled{6} \quad 1\frac{3}{4} \times \frac{8}{21} = \frac{\overset{1}{\cancel{7}}}{\underset{1}{\cancel{4}}} \times \frac{\overset{2}{8}}{\underset{3}{\cancel{21}}}$$

$$= \frac{2}{3}$$

$$\textcircled{15} \quad \frac{8}{9} \times 11\frac{1}{4} = \frac{\overset{2}{\cancel{8}}}{\underset{1}{\cancel{9}}} \times \frac{\overset{5}{45}}{\underset{1}{\cancel{4}}}$$

$$= \frac{10}{1} = 10$$

$$\textcircled{16} \quad \frac{28}{45} \times 7\frac{1}{2} = \frac{\overset{14}{28}}{\underset{3}{\cancel{45}}} \times \frac{\overset{3}{15}}{\underset{1}{\cancel{2}}}$$

$$= \frac{14}{3} = 4\frac{2}{3}$$

$$\textcircled{7} \quad 5\frac{1}{4} \times \frac{16}{27} = \frac{\overset{7}{21}}{\underset{1}{\cancel{4}}} \times \frac{\overset{4}{16}}{\underset{9}{\cancel{27}}}$$

$$= \frac{28}{9} = 3\frac{1}{9}$$

$$\textcircled{8} \quad \frac{33}{64} \times 6\frac{2}{9} = \frac{\overset{11}{33}}{\underset{8}{\cancel{64}}} \times \frac{\overset{7}{56}}{\underset{3}{\cancel{9}}}$$

$$= \frac{77}{24} = 3\frac{5}{24}$$

$$\textcircled{17} \quad 4\frac{9}{10} \times \frac{25}{56} = \frac{\overset{7}{49}}{\underset{2}{\cancel{10}}} \times \frac{\overset{5}{25}}{\underset{8}{\cancel{56}}}$$

$$= \frac{35}{16} = 2\frac{3}{16}$$

$$\textcircled{18} \quad 3\frac{6}{7} \times \frac{35}{72} = \frac{\overset{3}{27}}{\underset{1}{\cancel{7}}} \times \frac{\overset{5}{35}}{\underset{8}{\cancel{72}}}$$

$$= \frac{15}{8} = 1\frac{7}{8}$$

$$\textcircled{19} \quad 2\frac{2}{7} \times \frac{7}{8} = \frac{\overset{2}{16}}{\underset{1}{\cancel{7}}} \times \frac{\overset{1}{7}}{\underset{1}{\cancel{8}}}$$

$$= \frac{2}{1} = 2$$

$$\textcircled{20} \quad \frac{16}{17} \times 6\frac{3}{8} = \frac{\overset{2}{16}}{\underset{1}{\cancel{17}}} \times \frac{\overset{3}{51}}{\underset{1}{\cancel{8}}}$$

$$= \frac{6}{1} = 6$$

・次の計算をしましょう。

<例>

$$\begin{aligned} \textcircled{1} \quad 1\frac{2}{5} \times 1\frac{1}{6} &= \frac{7}{5} \times \frac{7}{6} \quad \leftarrow \text{帯分数} \Rightarrow \text{仮分数} \\ &= \frac{49}{30} = 1\frac{19}{30} \quad \leftarrow \text{帯分数に} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 2\frac{1}{4} \times 1\frac{2}{9} &= \frac{9}{4} \times \frac{11}{9} \quad \leftarrow \text{約分} \\ &= \frac{11}{4} = 2\frac{3}{4} \quad \leftarrow \text{帯分数に} \end{aligned}$$

<練習>

$$\begin{aligned} \textcircled{1} \quad 3\frac{4}{7} \times 1\frac{1}{9} &= \frac{25}{7} \times \frac{10}{9} \\ &= \frac{250}{63} = 3\frac{61}{63} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 2\frac{2}{5} \times 1\frac{5}{6} &= \frac{12}{5} \times \frac{11}{6} \\ &= \frac{22}{5} = 4\frac{2}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{1} \quad 2\frac{2}{7} \times 1\frac{1}{4} &= \frac{16}{7} \times \frac{5}{4} \\ &= \frac{20}{7} = 2\frac{6}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 3\frac{3}{5} \times 2\frac{1}{7} &= \frac{18}{5} \times \frac{15}{7} \\ &= \frac{54}{7} = 7\frac{5}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 1\frac{1}{2} \times 2\frac{3}{8} &= \frac{3}{2} \times \frac{19}{8} \\ &= \frac{57}{16} = 3\frac{9}{16} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 4\frac{1}{3} \times 1\frac{4}{13} &= \frac{13}{3} \times \frac{17}{13} \\ &= \frac{17}{3} = 5\frac{2}{3} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 5\frac{5}{6} \times 1\frac{4}{7} &= \frac{35}{6} \times \frac{11}{7} \\ &= \frac{55}{6} = 9\frac{1}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 1\frac{2}{9} \times 2\frac{1}{5} &= \frac{11}{9} \times \frac{11}{5} \\ &= \frac{121}{45} = 2\frac{31}{45} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 6\frac{2}{3} \times 2\frac{7}{15} &= \frac{20}{3} \times \frac{37}{15} \\ &= \frac{148}{9} = 16\frac{4}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad 3\frac{1}{3} \times 1\frac{9}{20} &= \frac{10}{3} \times \frac{29}{20} \\ &= \frac{29}{6} = 4\frac{5}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad 2\frac{3}{8} \times 1\frac{6}{7} &= \frac{19}{8} \times \frac{13}{7} \\ &= \frac{247}{56} = 4\frac{23}{56} \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad 1\frac{1}{9} \times 2\frac{4}{7} &= \frac{10}{9} \times \frac{18}{7} \\ &= \frac{20}{7} = 2\frac{6}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad 7\frac{1}{2} \times 4\frac{1}{3} &= \frac{15}{2} \times \frac{13}{3} \\ &= \frac{65}{2} = 32\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad 5\frac{3}{4} \times 1\frac{2}{23} &= \frac{23}{4} \times \frac{25}{23} \\ &= \frac{25}{4} = 6\frac{1}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{17} \quad 2\frac{6}{7} \times 1\frac{1}{3} &= \frac{20}{7} \times \frac{4}{3} \\ &= \frac{80}{21} = 3\frac{17}{21} \end{aligned}$$

$$\begin{aligned} \textcircled{19} \quad 1\frac{5}{12} \times 3\frac{1}{9} &= \frac{17}{12} \times \frac{28}{9} \\ &= \frac{119}{27} = 4\frac{11}{27} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 3\frac{3}{4} \times 2\frac{5}{18} &= \frac{15}{4} \times \frac{41}{18} \\ &= \frac{205}{24} = 8\frac{13}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad 3\frac{2}{5} \times 1\frac{1}{8} &= \frac{17}{5} \times \frac{9}{8} \\ &= \frac{153}{40} = 3\frac{33}{40} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad 1\frac{5}{6} \times 2\frac{3}{5} &= \frac{11}{6} \times \frac{13}{5} \\ &= \frac{143}{30} = 4\frac{23}{30} \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad 3\frac{5}{9} \times 1\frac{7}{16} &= \frac{32}{9} \times \frac{23}{16} \\ &= \frac{46}{9} = 5\frac{1}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{18} \quad 4\frac{4}{5} \times 1\frac{3}{7} &= \frac{24}{5} \times \frac{10}{7} \\ &= \frac{48}{7} = 6\frac{6}{7} \end{aligned}$$

$$\begin{aligned} \textcircled{20} \quad 5\frac{1}{2} \times 4\frac{2}{3} &= \frac{11}{2} \times \frac{14}{3} \\ &= \frac{77}{3} = 25\frac{2}{3} \end{aligned}$$

・次の計算をしましょう。

<例>

$$1\frac{2}{3} \times 2\frac{7}{10} = \frac{5}{3} \times \frac{27}{10} \leftarrow \begin{array}{l} \text{帯分数} \Rightarrow \text{仮分数} \\ \text{約分} \end{array}$$

$$= \frac{9}{2} = 4\frac{1}{2} \leftarrow \text{帯分数に}$$

<練習>

$$2\frac{5}{8} \times 3\frac{1}{7} = \frac{21}{8} \times \frac{22}{7}$$

$$= \frac{33}{4} = 8\frac{1}{4}$$

$$\textcircled{1} \quad 3\frac{1}{8} \times 1\frac{7}{15} = \frac{25}{8} \times \frac{22}{15}$$

$$= \frac{55}{12} = 4\frac{7}{12}$$

$$\textcircled{2} \quad 2\frac{2}{3} \times 3\frac{3}{4} = \frac{8}{3} \times \frac{15}{4}$$

$$= \frac{10}{1} = 10$$

$$\textcircled{3} \quad 4\frac{4}{5} \times 2\frac{2}{9} = \frac{24}{5} \times \frac{20}{9}$$

$$= \frac{32}{3} = 10\frac{2}{3}$$

$$\textcircled{4} \quad 1\frac{1}{14} \times 6\frac{3}{10} = \frac{15}{14} \times \frac{63}{10}$$

$$= \frac{27}{4} = 6\frac{3}{4}$$

$$\textcircled{5} \quad 7\frac{1}{2} \times 2\frac{4}{5} = \frac{15}{2} \times \frac{14}{5}$$

$$= \frac{21}{1} = 21$$

$$\textcircled{6} \quad 2\frac{1}{12} \times 1\frac{3}{35} = \frac{25}{12} \times \frac{38}{35}$$

$$= \frac{95}{42} = 2\frac{11}{42}$$

$$\textcircled{7} \quad 5\frac{2}{7} \times 1\frac{12}{37} = \frac{37}{7} \times \frac{49}{37}$$

$$= \frac{7}{1} = 7$$

$$\textcircled{8} \quad 3\frac{5}{9} \times 2\frac{1}{10} = \frac{32}{9} \times \frac{21}{10}$$

$$= \frac{112}{15} = 7\frac{7}{15}$$

$$\textcircled{9} \quad 5\frac{1}{4} \times 2\frac{2}{35} = \frac{21}{4} \times \frac{72}{35}$$

$$= \frac{54}{5} = 10\frac{4}{5}$$

$$\textcircled{10} \quad 1\frac{9}{16} \times 3\frac{3}{5} = \frac{25}{16} \times \frac{18}{5}$$

$$= \frac{45}{8} = 5\frac{5}{8}$$

$$\textcircled{11} \quad 4\frac{1}{2} \times 2\frac{4}{15} = \frac{9}{2} \times \frac{34}{15}$$

$$= \frac{51}{5} = 10\frac{1}{5}$$

$$\textcircled{12} \quad 1\frac{5}{8} \times 1\frac{3}{13} = \frac{13}{8} \times \frac{16}{13}$$

$$= \frac{2}{1} = 2$$

$$\textcircled{13} \quad 3\frac{8}{9} \times 1\frac{13}{14} = \frac{35}{9} \times \frac{27}{14}$$

$$= \frac{15}{2} = 7\frac{1}{2}$$

$$\textcircled{14} \quad 2\frac{1}{12} \times 3\frac{3}{10} = \frac{25}{12} \times \frac{33}{10}$$

$$= \frac{55}{8} = 6\frac{7}{8}$$

$$\textcircled{15} \quad 5\frac{1}{5} \times 2\frac{4}{13} = \frac{26}{5} \times \frac{30}{13}$$

$$= \frac{12}{1} = 12$$

$$\textcircled{16} \quad 4\frac{2}{7} \times 2\frac{11}{12} = \frac{30}{7} \times \frac{35}{12}$$

$$= \frac{25}{2} = 12\frac{1}{2}$$

$$\textcircled{17} \quad 1\frac{5}{18} \times 2\frac{8}{23} = \frac{23}{18} \times \frac{54}{23}$$

$$= \frac{3}{1} = 3$$

$$\textcircled{18} \quad 2\frac{8}{15} \times 3\frac{3}{8} = \frac{38}{15} \times \frac{27}{8}$$

$$= \frac{171}{20} = 8\frac{11}{20}$$

$$\textcircled{19} \quad 4\frac{9}{10} \times 2\frac{13}{21} = \frac{49}{10} \times \frac{55}{21}$$

$$= \frac{77}{6} = 12\frac{5}{6}$$

$$\textcircled{20} \quad 3\frac{5}{9} \times 2\frac{13}{16} = \frac{32}{9} \times \frac{45}{16}$$

$$= \frac{10}{1} = 10$$