

分母の数が倍関係である分数のたし算  
分母の数が互いに素である分数のたし算

◆ たし算をしましょう。

$$\textcircled{1} \frac{3}{8} + \frac{5}{16} = \frac{6}{16} + \frac{5}{16}$$

$$= \frac{11}{16}$$

$$\textcircled{2} \frac{4}{7} + \frac{1}{14} = \frac{8}{14} + \frac{1}{14}$$

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

$$\textcircled{3} \frac{4}{5} + \frac{2}{15} = \frac{12}{15} + \frac{2}{15}$$

$$= \frac{14}{15}$$

$$\textcircled{4} \frac{7}{12} + \frac{1}{4} = \frac{7}{12} + \frac{3}{12}$$

$$= \frac{10}{12} = \frac{5}{6}$$

$$\textcircled{5} \frac{1}{4} + \frac{7}{20} = \frac{5}{20} + \frac{7}{20}$$

$$= \frac{12}{20} = \frac{3}{5}$$

$$\textcircled{6} \frac{2}{3} + \frac{1}{8} = \frac{16}{24} + \frac{3}{24}$$

$$= \frac{19}{24}$$

$$\textcircled{7} \frac{4}{9} + \frac{3}{2} = \frac{8}{18} + \frac{27}{18}$$

$$= \frac{35}{18} \left( 1 \frac{17}{18} \right)$$

$$\textcircled{8} \frac{2}{5} + \frac{1}{3} = \frac{6}{15} + \frac{5}{15}$$

$$= \frac{11}{15}$$

$$\textcircled{9} \frac{1}{4} + \frac{3}{7} = \frac{7}{28} + \frac{12}{28}$$

$$= \frac{19}{28}$$

$$\textcircled{10} \frac{5}{4} + \frac{2}{5} = \frac{25}{20} + \frac{8}{20}$$

$$= \frac{33}{20} \left( 1 \frac{13}{20} \right)$$

分母の数の最小公倍数で通分する分数のたし算

◆ たし算をしましょう。

$$\textcircled{1} \frac{1}{6} + \frac{3}{8} = \frac{4}{24} + \frac{9}{24}$$

$$= \frac{13}{24}$$

$$\textcircled{2} \frac{7}{9} + \frac{5}{6} = \frac{14}{18} + \frac{15}{18}$$

$$= \frac{29}{18} \left( 1 \frac{11}{18} \right)$$

$$\textcircled{3} \frac{3}{10} + \frac{1}{4} = \frac{6}{20} + \frac{5}{20}$$

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

$$\textcircled{4} \frac{5}{8} + \frac{7}{10} = \frac{25}{40} + \frac{28}{40}$$

$$= \frac{53}{40} \left( 1 \frac{13}{40} \right)$$

$$\textcircled{5} \frac{2}{9} + \frac{5}{12} = \frac{8}{36} + \frac{15}{36}$$

$$= \frac{23}{36}$$

$$\textcircled{6} \frac{1}{4} + \frac{5}{6} = \frac{3}{12} + \frac{10}{12}$$

$$= \frac{13}{12} \left( 1 \frac{1}{12} \right)$$

$$\textcircled{7} \frac{9}{14} + \frac{7}{6} = \frac{27}{42} + \frac{49}{42}$$

$$= \frac{\overset{38}{\cancel{76}}}{\underset{21}{\cancel{42}}} = \frac{38}{21} \left( 1 \frac{17}{21} \right)$$

$$\textcircled{8} \frac{8}{15} + \frac{7}{6} = \frac{16}{30} + \frac{35}{30}$$

$$= \frac{\overset{17}{\cancel{51}}}{\underset{10}{\cancel{30}}} = \frac{17}{10} \left( 1 \frac{7}{10} \right)$$

$$\textcircled{9} \frac{7}{12} + \frac{13}{15} = \frac{35}{60} + \frac{52}{60}$$

$$= \frac{\overset{29}{\cancel{87}}}{\underset{20}{\cancel{60}}} = \frac{29}{20} \left( 1 \frac{9}{20} \right)$$

$$\textcircled{10} \frac{5}{14} + \frac{17}{21} = \frac{15}{42} + \frac{34}{42}$$

$$= \frac{\overset{7}{\cancel{49}}}{\underset{6}{\cancel{42}}} = \frac{7}{6} \left( 1 \frac{1}{6} \right)$$

分母がちがう分数のたし算

◆ たし算をしましょう。

$$\begin{aligned} \textcircled{1} \quad \frac{2}{15} + \frac{2}{3} &= \frac{2}{15} + \frac{10}{15} \\ &= \frac{\cancel{2}^4}{\cancel{15}_5} = \frac{4}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{5}{6} + \frac{5}{12} &= \frac{10}{12} + \frac{5}{12} \\ &= \frac{\cancel{15}^5}{\cancel{12}_4} = \frac{5}{4} \left(1 \frac{1}{4}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{5}{18} + \frac{1}{6} &= \frac{5}{18} + \frac{3}{18} \\ &= \frac{\cancel{8}^4}{\cancel{18}_9} = \frac{4}{9} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{4}{3} + \frac{3}{5} &= \frac{20}{15} + \frac{9}{15} \\ &= \frac{29}{15} \left(1 \frac{14}{15}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{7}{4} + \frac{2}{9} &= \frac{63}{36} + \frac{8}{36} \\ &= \frac{71}{36} \left(1 \frac{35}{36}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \frac{1}{4} + 1 \frac{3}{7} &= \frac{7}{28} + 1 \frac{12}{28} \\ &= 1 \frac{19}{28} \left(\frac{47}{28}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 2 \frac{3}{4} + \frac{5}{6} &= 2 \frac{9}{12} + \frac{10}{12} \\ &= 2 \frac{19}{12} = 3 \frac{7}{12} \left(\frac{43}{12}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad \frac{13}{10} + \frac{8}{15} &= \frac{39}{30} + \frac{16}{30} \\ &= \frac{\cancel{55}^{11}}{\cancel{30}_6} = \frac{11}{6} \left(1 \frac{5}{6}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad \frac{5}{12} + \frac{7}{8} &= \frac{10}{24} + \frac{21}{24} \\ &= \frac{31}{24} \left(1 \frac{7}{24}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 1 \frac{2}{9} + 2 \frac{1}{6} &= 1 \frac{4}{18} + 2 \frac{3}{18} \\ &= 3 \frac{7}{18} \left(\frac{61}{18}\right) \end{aligned}$$

分数のひき算 ①

名前

組 番

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◆ ひき算をしましょう。

$$\textcircled{1} \frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6}$$

$$= \frac{\cancel{3}}{\cancel{6}_2} - \frac{1}{2}$$

$$\textcircled{2} \frac{4}{5} - \frac{7}{15} = \frac{12}{15} - \frac{7}{15}$$

$$= \frac{\cancel{5}}{\cancel{15}_3} - \frac{1}{3}$$

$$\textcircled{3} \frac{4}{9} - \frac{5}{18} = \frac{8}{18} - \frac{5}{18}$$

$$= \frac{\cancel{3}}{\cancel{18}_6} - \frac{1}{6}$$

$$\textcircled{4} \frac{3}{4} - \frac{1}{12} = \frac{9}{12} - \frac{1}{12}$$

$$= \frac{\cancel{2}}{\cancel{12}_3} - \frac{2}{3}$$

$$\textcircled{5} \frac{13}{20} - \frac{2}{5} = \frac{13}{20} - \frac{8}{20}$$

$$= \frac{\cancel{5}}{\cancel{20}_4} - \frac{1}{4}$$

$$\textcircled{6} \frac{3}{2} - \frac{8}{9} = \frac{27}{18} - \frac{16}{18}$$

$$= \frac{11}{18}$$

$$\textcircled{7} \frac{7}{4} - \frac{9}{7} = \frac{49}{28} - \frac{36}{28}$$

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

$$\textcircled{8} \frac{6}{5} - \frac{3}{8} = \frac{48}{40} - \frac{15}{40}$$

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

$$\textcircled{9} \frac{5}{7} - \frac{1}{5} = \frac{25}{35} - \frac{7}{35}$$

$$= \frac{18}{35}$$

$$\textcircled{10} \frac{7}{8} - \frac{2}{3} = \frac{21}{24} - \frac{16}{24}$$

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

分母の数の最小公倍数で通分する分数のひき算

◆ ひき算をしましょう。

$$\textcircled{1} \quad \frac{7}{6} - \frac{5}{8} = \frac{28}{24} - \frac{15}{24}$$

$$= \frac{13}{24}$$

$$\textcircled{2} \quad \frac{17}{9} - \frac{5}{6} = \frac{34}{18} - \frac{15}{18}$$

$$= \frac{19}{18} \left( 1 \frac{1}{18} \right)$$

$$\textcircled{3} \quad \frac{7}{12} - \frac{3}{8} = \frac{14}{24} - \frac{9}{24}$$

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

$$\textcircled{4} \quad \frac{13}{10} - \frac{7}{6} = \frac{39}{30} - \frac{35}{30}$$

$$= \frac{\cancel{4}^2}{\cancel{30}_{15}} = \frac{2}{15}$$

$$\textcircled{5} \quad \frac{13}{12} - \frac{8}{15} = \frac{65}{60} - \frac{32}{60}$$

$$= \frac{\cancel{33}^{11}}{\cancel{60}_{20}} = \frac{11}{20}$$

$$\textcircled{6} \quad \frac{11}{15} - \frac{3}{10} = \frac{22}{30} - \frac{9}{30}$$

$$= \frac{13}{30}$$

$$\textcircled{7} \quad \frac{10}{21} - \frac{1}{14} = \frac{20}{42} - \frac{3}{42}$$

$$= \frac{17}{42}$$

$$\textcircled{8} \quad \frac{7}{9} - \frac{8}{15} = \frac{35}{45} - \frac{24}{45}$$

$$= \frac{11}{45}$$

$$\textcircled{9} \quad \frac{5}{6} - \frac{4}{15} = \frac{25}{30} - \frac{8}{30}$$

$$= \frac{17}{30}$$

$$\textcircled{10} \quad \frac{8}{21} - \frac{1}{6} = \frac{16}{42} - \frac{7}{42}$$

$$= \frac{\cancel{9}^3}{\cancel{42}_{14}} = \frac{3}{14}$$

分母がちがう分数のひき算

◆ ひき算をしましょう。

$$\textcircled{1} \frac{5}{6} - \frac{1}{2} = \frac{5}{6} - \frac{3}{6}$$

$$= \frac{\cancel{2}}{\cancel{6}_3} = \frac{1}{3}$$

$$\textcircled{2} \frac{3}{4} - \frac{7}{20} = \frac{15}{20} - \frac{7}{20}$$

$$= \frac{\cancel{8}^2}{\cancel{20}_5} = \frac{2}{5}$$

$$\textcircled{3} 1\frac{1}{3} - 1\frac{1}{12} = 1\frac{4}{12} - 1\frac{1}{12}$$

$$= \frac{\cancel{3}^1}{\cancel{12}_4} = \frac{1}{4}$$

$$\textcircled{4} \frac{2}{3} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12}$$

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

$$\textcircled{5} \frac{7}{5} - \frac{5}{8} = \frac{56}{40} - \frac{25}{40}$$

$$= \frac{31}{40}$$

$$\textcircled{6} \frac{9}{7} - \frac{7}{6} = \frac{54}{42} - \frac{49}{42}$$

$$= \frac{5}{42}$$

$$\textcircled{7} 1\frac{5}{6} - \frac{3}{4} = 1\frac{10}{12} - \frac{9}{12}$$

$$= 1\frac{1}{12} \left( \frac{13}{12} \right)$$

$$\textcircled{8} \frac{5}{8} - \frac{3}{10} = \frac{25}{40} - \frac{12}{40}$$

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

$$\textcircled{9} \frac{7}{6} - \frac{4}{9} = \frac{21}{18} - \frac{8}{18}$$

$$= \frac{13}{18}$$

$$\textcircled{10} 2\frac{3}{10} - 1\frac{9}{14} = 2\frac{21}{70} - 1\frac{45}{70}$$

$$= 1\frac{91}{70} - 1\frac{45}{70} = \frac{\cancel{46}^{23}}{\cancel{70}_{35}} = \frac{23}{35}$$

◆ たし算をしましょう。〈例〉

$$\textcircled{1} \quad \frac{2}{5} + 0.3 = \frac{2}{5} + \frac{3}{10}$$

$$= \frac{4}{10} + \frac{3}{10} = \frac{7}{10} \quad (0.7)$$

$$\textcircled{2} \quad 0.25 + \frac{3}{8} = \frac{1}{4} + \frac{3}{8}$$

$$= \frac{2}{8} + \frac{3}{8} = \frac{5}{8} \quad (0.625)$$

$$\textcircled{3} \quad \frac{1}{6} + 0.4 = \frac{1}{6} + \frac{2}{5}$$

$$= \frac{5}{30} + \frac{12}{30} = \frac{17}{30}$$

$$\textcircled{4} \quad \frac{2}{3} + 0.2 = \frac{2}{3} + \frac{1}{5}$$

$$= \frac{10}{15} + \frac{3}{15} = \frac{13}{15}$$

$$\textcircled{5} \quad 0.6 + \frac{1}{9} = \frac{3}{5} + \frac{1}{9}$$

$$= \frac{27}{45} + \frac{5}{45} = \frac{32}{45}$$

$$\textcircled{6} \quad 0.24 + \frac{1}{3} = \frac{6}{25} + \frac{1}{3}$$

$$= \frac{18}{75} + \frac{25}{75} = \frac{43}{75}$$

$$\textcircled{7} \quad \frac{1}{4} + 0.1 = \frac{1}{4} + \frac{1}{10}$$

$$= \frac{5}{20} + \frac{2}{20} = \frac{7}{20} \quad (0.35)$$

$$\textcircled{8} \quad 0.3 + \frac{7}{25} = \frac{3}{10} + \frac{7}{25}$$

$$= \frac{15}{50} + \frac{14}{50} = \frac{29}{50} \quad (0.58)$$

$$\textcircled{9} \quad 0.15 + \frac{5}{8} = \frac{3}{20} + \frac{5}{8}$$

$$= \frac{6}{40} + \frac{25}{40} = \frac{31}{40} \quad (0.775)$$

$$\textcircled{10} \quad 0.45 + \frac{2}{15} = \frac{9}{20} + \frac{2}{15}$$

$$= \frac{27}{60} + \frac{8}{60} = \frac{\overset{7}{\cancel{35}}}{\underset{12}{\cancel{60}}} = \frac{7}{12}$$

◆ ひき算をしましょう。〈例〉

$$\begin{aligned} \textcircled{1} \quad \frac{4}{5} - 0.3 &= \frac{4}{5} - \frac{3}{10} \\ &= \frac{8}{10} - \frac{3}{10} = \frac{\cancel{5}}{\cancel{10}^2} = \frac{1}{2} \quad (0.5) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{1}{2} - 0.4 &= \frac{1}{2} - \frac{2}{5} \\ &= \frac{5}{10} - \frac{4}{10} = \frac{1}{10} \quad (0.1) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 0.75 - \frac{7}{20} &= \frac{3}{4} - \frac{7}{20} \\ &= \frac{15}{20} - \frac{7}{20} = \frac{\cancel{8}^2}{\cancel{20}^5} = \frac{2}{5} \quad (0.4) \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 0.9 - \frac{2}{3} &= \frac{9}{10} - \frac{2}{3} \\ &= \frac{27}{30} - \frac{20}{30} = \frac{7}{30} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 0.2 - \frac{1}{7} &= \frac{1}{5} - \frac{1}{7} \\ &= \frac{7}{35} - \frac{5}{35} = \frac{2}{35} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 0.7 - \frac{1}{4} &= \frac{7}{10} - \frac{1}{4} \\ &= \frac{14}{20} - \frac{5}{20} = \frac{9}{20} \quad (0.45) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad \frac{5}{6} - 0.3 &= \frac{5}{6} - \frac{3}{10} \\ &= \frac{25}{30} - \frac{9}{30} = \frac{\cancel{16}^8}{\cancel{30}^{15}} = \frac{8}{15} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad 0.9 - \frac{5}{8} &= \frac{9}{10} - \frac{5}{8} \\ &= \frac{36}{40} - \frac{25}{40} = \frac{11}{40} \quad (0.275) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad 0.7 - \frac{8}{15} &= \frac{7}{10} - \frac{8}{15} \\ &= \frac{21}{30} - \frac{16}{30} = \frac{\cancel{5}^1}{\cancel{30}^6} = \frac{1}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 0.85 - \frac{8}{15} &= \frac{17}{20} - \frac{8}{15} \\ &= \frac{51}{60} - \frac{32}{60} = \frac{19}{60} \end{aligned}$$

分数と小数のたし算  
分数と小数のひき算

◆ 計算をしましょう。〈例〉

$$\textcircled{1} \frac{1}{6} + 0.5 = \frac{1}{6} + \frac{1}{2}$$

$$= \frac{1}{6} + \frac{3}{6} = \frac{\cancel{4}^2}{\cancel{6}_3} = \frac{2}{3}$$

$$\textcircled{2} \frac{1}{2} + 0.4 = \frac{1}{2} + \frac{2}{5}$$

$$= \frac{5}{10} + \frac{4}{10} = \frac{9}{10} (0.9)$$

$$\textcircled{3} 0.6 + \frac{1}{7} = \frac{3}{5} + \frac{1}{7}$$

$$= \frac{21}{35} + \frac{5}{35} = \frac{26}{35}$$

$$\textcircled{4} 0.35 + \frac{1}{8} = \frac{7}{20} + \frac{1}{8}$$

$$= \frac{14}{40} + \frac{5}{40} = \frac{19}{40}$$

$$\textcircled{5} 0.15 + \frac{4}{15} = \frac{3}{20} + \frac{4}{15}$$

$$= \frac{9}{60} + \frac{16}{60} = \frac{\cancel{25}^5}{\cancel{60}_{12}} = \frac{5}{12}$$

$$\textcircled{6} \frac{2}{5} - 0.1 = \frac{2}{5} - \frac{1}{10}$$

$$= \frac{4}{10} - \frac{1}{10} = \frac{3}{10} (0.3)$$

$$\textcircled{7} \frac{2}{3} - 0.48 = \frac{2}{3} - \frac{12}{25}$$

$$= \frac{50}{75} - \frac{36}{75} = \frac{14}{75}$$

$$\textcircled{8} \frac{5}{6} - 0.7 = \frac{5}{6} - \frac{7}{10}$$

$$= \frac{25}{30} - \frac{21}{30} = \frac{\cancel{4}^2}{\cancel{30}_{15}} = \frac{2}{15}$$

$$\textcircled{9} 0.64 - \frac{3}{10} = \frac{16}{25} - \frac{3}{10}$$

$$= \frac{32}{50} - \frac{15}{50} = \frac{17}{50} (0.34)$$

$$\textcircled{10} 0.65 - \frac{4}{15} = \frac{13}{20} - \frac{4}{15}$$

$$= \frac{39}{60} - \frac{16}{60} = \frac{23}{60}$$