Addition und Subtraktion von Brüchen mit ungleichem Nenner

Lösung:

1) $\dfrac{6}{2} + \dfrac{4}{8} = $ —— + —— = —— + —— = ——

1) $\dfrac{6}{2} + \dfrac{4}{8} = \dfrac{24}{8} + \dfrac{4}{8} = \dfrac{28}{8} = \dfrac{7}{2}$

2) $\dfrac{7}{6} + \dfrac{8}{9} = $ —— + —— = —— + —— = ——

2) $\dfrac{7}{6} + \dfrac{8}{9} = \dfrac{21}{18} + \dfrac{16}{18} = \dfrac{37}{18}$ ——

3) $\dfrac{2}{3} + \dfrac{8}{9} = $ —— + —— = —— + —— = ——

3) $\dfrac{2}{3} + \dfrac{8}{9} = \dfrac{6}{9} + \dfrac{8}{9} = \dfrac{14}{9}$ ——

4) $\dfrac{9}{5} + \dfrac{9}{10} = $ —— + —— = —— + —— = ——

4) $\dfrac{9}{5} + \dfrac{9}{10} = \dfrac{18}{10} + \dfrac{9}{10} = \dfrac{27}{10}$ ——

5) $\dfrac{3}{8} + \dfrac{6}{7} = $ —— + —— = —— + —— = ——

5) $\dfrac{3}{8} + \dfrac{6}{7} = \dfrac{21}{56} + \dfrac{48}{56} = \dfrac{69}{56}$ ——

6) $\dfrac{7}{5} + \dfrac{8}{7} = $ —— + —— = —— + —— = ——

6) $\dfrac{7}{5} + \dfrac{8}{7} = \dfrac{49}{35} + \dfrac{40}{35} = \dfrac{89}{35}$ ——

7) $\dfrac{4}{5} + \dfrac{4}{8} = $ —— + —— = —— + —— = ——

7) $\dfrac{4}{5} + \dfrac{4}{8} = \dfrac{32}{40} + \dfrac{20}{40} = \dfrac{52}{40} = \dfrac{13}{10}$

8) $\dfrac{9}{8} + \dfrac{5}{9} = $ —— + —— = —— + —— = ——

8) $\dfrac{9}{8} + \dfrac{5}{9} = \dfrac{81}{72} + \dfrac{40}{72} = \dfrac{121}{72}$ ——

9) $\dfrac{3}{4} + \dfrac{5}{7} = $ —— + —— = —— + —— = ——

9) $\dfrac{3}{4} + \dfrac{5}{7} = \dfrac{21}{28} + \dfrac{20}{28} = \dfrac{41}{28}$ ——

10) $\dfrac{6}{8} + \dfrac{2}{5} = $ —— + —— = —— + —— = ——

10) $\dfrac{6}{8} + \dfrac{2}{5} = \dfrac{30}{40} + \dfrac{16}{40} = \dfrac{46}{40} = \dfrac{23}{20}$

11) $\dfrac{9}{10} - \dfrac{3}{9} = $ —— — —— — —— — ——

11) $\dfrac{9}{10} - \dfrac{3}{9} = \dfrac{81}{90} - \dfrac{30}{90} = \dfrac{51}{90} = \dfrac{17}{30}$

12) $\dfrac{6}{8} - \dfrac{4}{10} = $ —— - —— = —— - —— = ——

12) $\dfrac{6}{8} - \dfrac{4}{10} = \dfrac{30}{40} - \dfrac{16}{40} = \dfrac{14}{40} = \dfrac{7}{20}$

13) $\dfrac{9}{2} - \dfrac{6}{3} = $ —— - —— = —— - —— = ——

13) $\dfrac{9}{2} - \dfrac{6}{3} = \dfrac{27}{6} - \dfrac{12}{6} = \dfrac{15}{6} = \dfrac{5}{2}$

14) $\dfrac{2}{4} - \dfrac{6}{2} = $ —— - —— = —— - —— = ——

14) $\dfrac{2}{4} - \dfrac{6}{2} = \dfrac{2}{4} - \dfrac{12}{4} = \dfrac{-10}{4} = \dfrac{-5}{2}$

15) $\dfrac{8}{4} - \dfrac{3}{2} = $ —— - —— = —— - —— = ——

15) $\dfrac{8}{4} - \dfrac{3}{2} = \dfrac{8}{4} - \dfrac{6}{4} = \dfrac{2}{4} = \dfrac{1}{2}$

16) $\dfrac{7}{8} - \dfrac{2}{5} = $ —— - —— = —— - —— = ——

16) $\dfrac{7}{8} - \dfrac{2}{5} = \dfrac{35}{40} - \dfrac{16}{40} = \dfrac{19}{40}$ ——

17) $\dfrac{7}{2} - \dfrac{4}{6} = $ —— - —— = —— - —— = ——

17) $\dfrac{7}{2} - \dfrac{4}{6} = \dfrac{21}{6} - \dfrac{4}{6} = \dfrac{17}{6}$ ——