

Addition und Subtraktion von Brüchen mit ungleichem Nenner

Lösung:

$$1) \frac{3}{5} + \frac{4}{9} = \frac{3 \cdot 9}{5 \cdot 9} + \frac{4 \cdot 5}{9 \cdot 5} = \frac{27}{45} + \frac{20}{45} = \frac{47}{45}$$

$$2) \frac{6}{5} + \frac{3}{7} = \frac{6 \cdot 7}{5 \cdot 7} + \frac{3 \cdot 5}{7 \cdot 5} = \frac{42}{35} + \frac{15}{35} = \underline{\underline{}}$$

$$3) \frac{9}{7} + \frac{8}{4} = \frac{9 \cdot 4}{7 \cdot 4} + \frac{8 \cdot 7}{4 \cdot 7} = \frac{36}{28} + \frac{56}{28} = \underline{\underline{}}$$

$$4) \frac{8}{5} + \frac{9}{3} = \frac{8 \cdot 3}{5 \cdot 3} + \frac{9 \cdot 5}{3 \cdot 5} = \underline{\underline{}} + \underline{\underline{}} = \underline{\underline{}}$$

$$5) \frac{7}{2} + \frac{8}{7} = \frac{\underline{\underline{}}}{2 \cdot 7} + \frac{\underline{\underline{}}}{7 \cdot 2} = \underline{\underline{}} + \underline{\underline{}} = \underline{\underline{}}$$

$$6) \frac{2}{8} + \frac{4}{3} = \frac{\underline{\underline{}}}{8} + \frac{\underline{\underline{}}}{3} = \underline{\underline{}} + \underline{\underline{}} = \underline{\underline{}}$$

$$7) \frac{4}{5} + \frac{9}{10} = \frac{\underline{\underline{}}}{5} + \frac{\underline{\underline{}}}{10} = \underline{\underline{}} + \underline{\underline{}} = \underline{\underline{}}$$

$$8) \frac{8}{9} + \frac{4}{5} = \frac{\underline{\underline{}}}{9} + \frac{\underline{\underline{}}}{5} = \underline{\underline{}} + \underline{\underline{}} = \underline{\underline{}}$$

$$9) \frac{8}{4} + \frac{6}{8} = \frac{\underline{\underline{}}}{4} + \frac{\underline{\underline{}}}{8} = \underline{\underline{}} + \underline{\underline{}} = \underline{\underline{}}$$

$$10) \frac{9}{2} + \frac{5}{6} = \frac{\underline{\underline{}}}{2} + \frac{\underline{\underline{}}}{6} = \underline{\underline{}} + \underline{\underline{}} = \underline{\underline{}}$$

$$11) \frac{7}{8} - \frac{2}{4} = \frac{7 \cdot 1}{8 \cdot 1} - \frac{2 \cdot 2}{4 \cdot 2} = \frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

$$12) \frac{9}{10} - \frac{6}{9} = \frac{\underline{\underline{}}}{10} - \frac{\underline{\underline{}}}{9} = \underline{\underline{}} - \underline{\underline{}} = \underline{\underline{}}$$

$$13) \frac{4}{8} - \frac{6}{8} = \frac{\underline{\underline{}}}{8} - \frac{\underline{\underline{}}}{8} = \underline{\underline{}} - \underline{\underline{}} = \underline{\underline{}}$$

$$14) \frac{6}{2} - \frac{5}{9} = \frac{\underline{\underline{}}}{2} - \frac{\underline{\underline{}}}{9} = \underline{\underline{}} - \underline{\underline{}} = \underline{\underline{}}$$

$$15) \frac{8}{9} - \frac{9}{10} = \frac{\underline{\underline{}}}{9} - \frac{\underline{\underline{}}}{10} = \underline{\underline{}} - \underline{\underline{}} = \underline{\underline{}}$$

$$16) \frac{6}{8} - \frac{5}{2} = \frac{\underline{\underline{}}}{8} - \frac{\underline{\underline{}}}{2} = \underline{\underline{}} - \underline{\underline{}} = \underline{\underline{}}$$

$$17) \frac{9}{3} - \frac{3}{7} = \frac{\underline{\underline{}}}{3} - \frac{\underline{\underline{}}}{7} = \underline{\underline{}} - \underline{\underline{}} = \underline{\underline{}}$$

$$1) \frac{3}{5} + \frac{4}{9} = \frac{27}{45} + \frac{20}{45} = \frac{47}{45} = \underline{\underline{}}$$

$$2) \frac{6}{5} + \frac{3}{7} = \frac{42}{35} + \frac{15}{35} = \frac{57}{35} = \underline{\underline{}}$$

$$3) \frac{9}{7} + \frac{8}{4} = \frac{36}{28} + \frac{56}{28} = \frac{92}{28} = \frac{23}{7}$$

$$4) \frac{8}{5} + \frac{9}{3} = \frac{24}{15} + \frac{45}{15} = \frac{69}{15} = \frac{23}{5}$$

$$5) \frac{7}{2} + \frac{8}{7} = \frac{49}{14} + \frac{16}{14} = \frac{65}{14} = \underline{\underline{}}$$

$$6) \frac{2}{8} + \frac{4}{3} = \frac{6}{24} + \frac{32}{24} = \frac{38}{24} = \frac{19}{12}$$

$$7) \frac{4}{5} + \frac{9}{10} = \frac{8}{10} + \frac{9}{10} = \frac{17}{10} = \underline{\underline{}}$$

$$8) \frac{8}{9} + \frac{4}{5} = \frac{40}{45} + \frac{36}{45} = \frac{76}{45} = \underline{\underline{}}$$

$$9) \frac{8}{4} + \frac{6}{8} = \frac{16}{8} + \frac{6}{8} = \frac{22}{8} = \frac{11}{4}$$

$$10) \frac{9}{2} + \frac{5}{6} = \frac{27}{6} + \frac{5}{6} = \frac{32}{6} = \frac{16}{3}$$

$$11) \frac{7}{8} - \frac{2}{4} = \frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

$$12) \frac{9}{9} - \frac{6}{9} = \frac{81}{90} - \frac{60}{90} = \frac{21}{90} = \frac{7}{30}$$

$$13) \frac{4}{8} - \frac{6}{8} = \frac{4}{8} - \frac{6}{8} = \frac{-2}{8} = \frac{-1}{4}$$

$$14) \frac{6}{2} - \frac{5}{9} = \frac{54}{18} - \frac{10}{18} = \frac{44}{18} = \frac{22}{9}$$

$$15) \frac{8}{9} - \frac{9}{10} = \frac{80}{90} - \frac{81}{90} = \frac{-1}{90} = \underline{\underline{}}$$

$$16) \frac{6}{8} - \frac{5}{2} = \frac{6}{8} - \frac{20}{8} = \frac{-14}{8} = \frac{-7}{4}$$

$$17) \frac{9}{3} - \frac{3}{7} = \frac{63}{21} - \frac{9}{21} = \frac{54}{21} = \frac{18}{7}$$

Brüche mit ungleichem Nenner werden addiert, indem man die Nenner gleichnamig macht und dann die Zähler addiert.