Addition von Brüchen

Aufgabe 1: Berechne

1) $\quad 2\dfrac{3}{8} + 3\dfrac{6}{8} =$

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

3) $\quad 7\dfrac{3}{7} + 3\dfrac{3}{5} =$

4) $\quad 6\dfrac{9}{13} + 9\dfrac{3}{8} =$

5) $\quad 5\dfrac{3}{7} + 3\dfrac{7}{11} =$

6) $\quad 7\dfrac{6}{9} + 5\dfrac{6}{11} =$

7) $\quad 10\dfrac{9}{12} + 5\dfrac{5}{9} =$

8) $\quad 9\dfrac{9}{12} + 8\dfrac{2}{5} =$

9) $\quad 10\dfrac{7}{12} + 4\dfrac{7}{13} =$

10) $\quad 6\dfrac{4}{7} + 5\dfrac{4}{8} =$

11) $\quad 4\dfrac{4}{7} + 9\dfrac{3}{6} =$

12) $\quad 10\dfrac{4}{6} + 9\dfrac{10}{13} =$

Lösung:

1) $\quad 2\dfrac{3}{8} + 3\dfrac{6}{8} = 2\dfrac{3}{8} + 3\dfrac{6}{8} = 5\dfrac{9}{8} = 6\dfrac{1}{8} = 6\dfrac{1}{8}$

2) $\quad 8\dfrac{6}{8} + 3\dfrac{9}{14} = 8\dfrac{42}{56} + 3\dfrac{36}{56} = 11\dfrac{78}{56} = 12\dfrac{22}{56} = 12\dfrac{11}{28}$

3) $\quad 7\dfrac{3}{7} + 3\dfrac{3}{5} = 7\dfrac{15}{35} + 3\dfrac{21}{35} = 10\dfrac{36}{35} = 11\dfrac{1}{35} = 11\dfrac{1}{35}$

4) $\quad 6\dfrac{9}{13} + 9\dfrac{3}{8} = 6\dfrac{72}{104} + 9\dfrac{39}{104} = 15\dfrac{111}{104} = 16\dfrac{7}{104} = 16\dfrac{7}{104}$

5) $\quad 5\dfrac{3}{7} + 3\dfrac{7}{11} = 5\dfrac{33}{77} + 3\dfrac{49}{77} = 8\dfrac{82}{77} = 9\dfrac{5}{77} = 9\dfrac{5}{77}$

6) $\quad 7\dfrac{6}{9} + 5\dfrac{6}{11} = 7\dfrac{66}{99} + 5\dfrac{54}{99} = 12\dfrac{120}{99} = 13\dfrac{21}{99} = 13\dfrac{7}{33}$

7) $\quad 10\dfrac{9}{12} + 5\dfrac{5}{9} = 10\dfrac{27}{36} + 5\dfrac{20}{36} = 15\dfrac{47}{36} = 16\dfrac{11}{36} = 16\dfrac{11}{36}$

8) $\quad 9\dfrac{9}{12} + 8\dfrac{2}{5} = 9\dfrac{45}{60} + 8\dfrac{24}{60} = 17\dfrac{69}{60} = 18\dfrac{9}{60} = 18\dfrac{3}{20}$

9) $\quad 10\dfrac{7}{12} + 4\dfrac{7}{13} = 10\dfrac{91}{156} + 4\dfrac{84}{156} = 14\dfrac{175}{156} = 15\dfrac{19}{156} = 15\dfrac{19}{156}$

10) $\quad 6\dfrac{4}{7} + 5\dfrac{4}{8} = 6\dfrac{32}{56} + 5\dfrac{28}{56} = 11\dfrac{60}{56} = 12\dfrac{4}{56} = 12\dfrac{1}{14}$

11) $\quad 4\dfrac{4}{7} + 9\dfrac{3}{6} = 4\dfrac{24}{42} + 9\dfrac{21}{42} = 13\dfrac{45}{42} = 14\dfrac{3}{42} = 14\dfrac{1}{14}$

12) $\quad 10\dfrac{4}{6} + 9\dfrac{10}{13} = 10\dfrac{52}{78} + 9\dfrac{60}{78} = 19\dfrac{112}{78} = 20\dfrac{34}{78} = 20\dfrac{17}{39}$