Aufgabenblatt Brüche addieren

Lösungen

1. $\frac{1}{3}+\frac{3}{22}=\frac{1*22}{3*22}+\frac{3*3}{22*3}=\frac{22}{66}+\frac{9}{66}=\frac{31}{66}$

2. $\frac{1}{3}+\frac{1}{8}=\frac{1*8}{3*8}+\frac{1*3}{8*3}=\frac{8}{24}+\frac{3}{24}=\frac{11}{24}$

3. $\frac{8}{13}+\frac{7}{78}=\frac{8*6}{13*6}+\frac{7}{78}=\frac{48}{78}+\frac{7}{78}=\frac{55}{78}$

4. $\frac{17}{30}+\frac{7}{45}=\frac{17*3}{30*3}+\frac{7*2}{45*2}=\frac{51}{90}+\frac{14}{90}=\frac{65}{90}=\frac{65:5}{90:5}=\frac{13}{18}$

5. $\frac{19}{30}+\frac{4}{12}=\frac{19*2}{30*2}+\frac{4*5}{12*5}=\frac{38}{60}+\frac{20}{60}=\frac{58}{60}=\frac{58:2}{60:2}=\frac{29}{30}$

6. $\frac{3}{14}+\frac{7}{42}=\frac{3*3}{14*3}+\frac{7}{42}=\frac{9}{42}+\frac{7}{42}=\frac{16}{42}=\frac{8}{21}$

7. $\frac{3}{8}+\frac{2}{7}=\frac{3*7}{8*7}+\frac{2*8}{7*8}=\frac{21}{56}+\frac{16}{56}=\frac{37}{56}$

8. $\frac{3}{24}+\frac{4}{16}=\frac{3:3}{24:3}+\frac{4:2}{16:2}=\frac{1}{8}+\frac{2}{8}=\frac{3}{8}$

9. $\frac{2}{5}+\frac{4}{21}=\frac{2*21}{5*21}+\frac{4*5}{21*5}=\frac{42}{105}+\frac{20}{105}=\frac{62}{105}$

10. $\frac{1}{99}+\frac{1}{5}=\frac{1*5}{99*5}+\frac{1*99}{5*99}=\frac{5}{495}+\frac{99}{495}=\frac{104}{495}$

11. $\frac{3}{7}+\frac{1}{5}+\frac{2}{14}=\frac{3}{7}+\frac{1}{5}+\frac{2:2}{14:2}=\frac{3}{7}+\frac{1}{5}+\frac{1}{7}=\frac{4}{7}+\frac{1}{5}=\frac{4*5}{7*5}+\frac{1*7}{5*7}=\frac{20}{35}+\frac{7}{35}=\frac{27}{35}$

12. $\frac{1}{3}+\frac{1}{7}+\frac{1}{2}=\frac{1*7}{3*7}+\frac{1*3}{7*3}+\frac{1}{2}=\frac{7}{21}+\frac{3}{21}+\frac{1}{2}=\frac{10}{21}+\frac{1}{2}=\frac{10*2}{21*2}+\frac{1*21}{2*21}=\frac{20}{42}+\frac{21}{42}=\frac{41}{42}$

13. $\frac{2}{9}+\frac{2}{3}+\frac{1}{15}=\frac{2*5}{9*5}+\frac{2*15}{3*15}+\frac{1*3}{15*3}=\frac{10}{45}+\frac{30}{45}+\frac{3}{45}=\frac{43}{45}$

14. $\frac{3}{14}+\frac{40}{84}+\frac{39}{126}=\frac{3*18}{14*18}+\frac{40*3}{84*3}+\frac{39*2}{126*2}=\frac{54}{252}+\frac{120}{252}+\frac{78}{252}=1$

15. $\frac{4}{26}+\frac{3}{18}+\frac{12}{26}=\frac{16}{26}+\frac{3}{18}=\frac{16*18}{26*18}+\frac{3*26}{18*26}=\frac{288}{468}+\frac{78}{468}=\frac{366}{468}=\frac{366:2}{468:2}=\frac{183:3}{234:3}=\frac{61}{78}$