Name | Datum | Klasse

Bruchrechnen

1. $\frac{1}{2} \cdot \frac{11}{6} + \frac{9}{2} =$

2. $\frac{1}{2} \cdot 1\frac{1}{2} + 3 =$

3. $\frac{1}{3} \cdot \frac{12}{5} + \frac{3}{2} =$

4. $\frac{2}{7} \cdot \frac{3}{5} + 1\frac{4}{7} \cdot \frac{7}{6} =$

5. $\frac{8}{3} \cdot 4 + \frac{3}{7} \cdot 3\frac{2}{3} =$

6. $\frac{11}{3} : 1\frac{5}{7} + 3\frac{1}{2} =$

7. $\frac{11}{6} : 4 + 3 =$

8. $3\frac{1}{2} : \frac{7}{5} + \frac{2}{3} : \frac{11}{7} =$

9. $\frac{10}{7} : 1\frac{1}{7} + 1\frac{1}{4} : 2\frac{1}{5} =$

10. $\frac{10}{7} \cdot 1\frac{2}{5} \cdot \frac{11}{4} =$

11. $\frac{3}{5} \cdot 3\frac{1}{3} \cdot 2 =$

12. $\frac{12}{5} \cdot 6\frac{1}{2} + 2\frac{1}{6} =$

13. $\frac{3}{4} \cdot \frac{3}{7} + \frac{7}{6} =$

14. $1\frac{1}{3} \cdot \frac{3}{2} + \frac{1}{2} \cdot 1\frac{1}{3} =$

15. $\frac{1}{2} \cdot \frac{8}{3} + 1\frac{2}{3} \cdot \frac{5}{2} =$

16. $\frac{5}{2} \cdot 2\frac{1}{2} + \frac{5}{2} =$

17. $1\frac{2}{3} \cdot \frac{12}{7} + 1\frac{1}{6} =$

18. $\frac{1}{2} : \frac{12}{7} + 3 : 1\frac{1}{3} =$

19. $\frac{5}{6} : 2 + \frac{5}{7} : 6\frac{1}{2} =$

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1. $\frac{1}{2} \cdot \frac{11}{6} + \frac{9}{2} = \frac{11}{12} + \frac{9}{2} = \frac{11+54}{12} = \frac{65}{12} = 5\frac{5}{12}$

2. $\frac{1}{2} \cdot 1\frac{1}{2} + 3 = \frac{3}{4} + \frac{3}{1} = \frac{3+12}{4} = \frac{15}{4} = 3\frac{3}{4}$

3. $\frac{1}{3} \cdot \frac{12}{5} + \frac{3}{2} = \frac{4}{5} + \frac{3}{2} = \frac{8+15}{10} = \frac{23}{10} = 2\frac{3}{10}$

4. $\frac{2}{7} \cdot \frac{3}{5} + 1\frac{4}{7} \cdot \frac{7}{6} = \frac{6}{35} + \frac{11}{6} = \frac{421}{210} = 2\frac{1}{210}$

5. $\frac{8}{3} \cdot 4 + \frac{3}{7} \cdot 3\frac{2}{3} = \frac{32}{3} + \frac{11}{7} = \frac{257}{21} = 12\frac{5}{21}$

6. $\frac{11}{3} : 1\frac{5}{7} + 3\frac{1}{2} = \frac{11}{3} \cdot \frac{7}{12} + 3\frac{1}{2} = \frac{77}{36} + \frac{7}{2} = \frac{77+126}{36} = \frac{203}{36} = 5\frac{23}{36}$

7. $\frac{11}{6} : 4 + 3 = \frac{11}{6} \cdot \frac{1}{4} + 3 = \frac{11}{24} + \frac{3}{1} = \frac{11+72}{24} = \frac{83}{24} = 3\frac{11}{24}$

8. $3\frac{1}{2} : \frac{7}{5} + \frac{2}{3} : \frac{11}{7} = \frac{7}{2} \cdot \frac{5}{7} + \frac{2}{3} \cdot \frac{7}{11} = \frac{5}{2} + \frac{14}{33} = \frac{193}{66} = 2\frac{61}{66}$

9. $\frac{10}{7} : 1\frac{1}{7} + 1\frac{1}{4} : 2\frac{1}{5} = \frac{10}{7} \cdot \frac{7}{8} + \frac{5}{4} \cdot \frac{5}{11} = \frac{5}{4} + \frac{25}{44} = \frac{20}{11} = 1\frac{9}{11}$

10. $\frac{10}{7} \cdot 1\frac{2}{5} \cdot \frac{11}{4} = \frac{11}{2} = 5\frac{1}{2}$

11. $\frac{3}{5} \cdot 3\frac{1}{3} \cdot 2 = = 4$

12. $\frac{12}{5} \cdot 6\frac{1}{2} + 2\frac{1}{6} = \frac{78}{5} + \frac{13}{6} = \frac{468+65}{30} = \frac{533}{30} = 17\frac{23}{30}$

13. $\frac{3}{4} \cdot \frac{3}{7} + \frac{7}{6} = \frac{9}{28} + \frac{7}{6} = \frac{27+98}{84} = \frac{125}{84} = 1\frac{41}{84}$

14. $1\frac{1}{3} \cdot \frac{3}{2} + \frac{1}{2} \cdot 1\frac{1}{3} = \frac{2}{1} + \frac{2}{3} = \frac{8}{3} = 2\frac{2}{3}$

15. $\frac{1}{2} \cdot \frac{8}{3} + 1\frac{2}{3} \cdot \frac{5}{2} = \frac{4}{3} + \frac{25}{6} = \frac{11}{2} = 5\frac{1}{2}$

16. $\frac{5}{2} \cdot 2\frac{1}{2} + \frac{5}{2} = \frac{25}{4} + \frac{5}{2} = \frac{25+10}{4} = \frac{35}{4} = 8\frac{3}{4}$

17. $1\frac{2}{3} \cdot \frac{12}{7} + 1\frac{1}{6} = \frac{20}{7} + \frac{7}{6} = \frac{120+49}{42} = \frac{169}{42} = 4\frac{1}{42}$

18. $\frac{1}{2} : \frac{12}{7} + 3 : 1\frac{1}{3} = \frac{1}{2} \cdot \frac{7}{12} + \frac{3}{1} \cdot \frac{3}{4} = \frac{7}{24} + \frac{9}{4} = \frac{61}{24} = 2\frac{13}{24}$

19. $\frac{5}{6} : 2 + \frac{5}{7} : 6\frac{1}{2} = \frac{5}{6} \cdot \frac{1}{2} + \frac{5}{7} \cdot \frac{2}{13} = \frac{5}{12} + \frac{10}{91} = \frac{575}{1092}$