

Aufgaben

1. Erweitere: $\frac{7}{6} = \frac{84}{72}$ $\frac{7}{6} = \frac{63}{54}$ $\frac{3}{2} = \frac{36}{24}$ $\frac{8}{3} = \frac{48}{18}$
2. $1\frac{2}{3} + 6\frac{1}{2} - 1\frac{6}{7} = \frac{70}{42} + \frac{273}{42} - \frac{78}{42} = \frac{265}{42}$
3. $\frac{23}{3} + \frac{5}{2} - \frac{23}{9} + \frac{4}{3} = \frac{138}{18} + \frac{45}{18} - \frac{46}{18} + \frac{24}{18} = \frac{161}{18}$
4. Kürze: $\frac{90}{108} = \frac{5}{6}$ $\frac{324}{144} = \frac{9}{4} = 2\frac{1}{4}$ $\frac{80}{48} = \frac{5}{3} = 1\frac{2}{3}$
5. $\frac{5}{2} + \frac{4}{5} - \frac{9}{4} = \frac{50}{20} + \frac{16}{20} - \frac{45}{20} = \frac{21}{20} = 1\frac{1}{20}$
6. $\frac{7}{3} - \frac{11}{7} + \frac{4}{5} - \frac{3}{4} + \frac{3}{10} = \frac{980}{420} - \frac{660}{420} + \frac{336}{420} - \frac{315}{420} + \frac{126}{420} = \frac{467}{420} = 1\frac{47}{420}$
7. $1\frac{1}{5} + \frac{4}{5} - \frac{1}{5} + 2\frac{2}{5} - 1\frac{1}{3} = 2 + \frac{3}{15} + \frac{12}{15} - \frac{3}{15} + \frac{6}{15} - \frac{5}{15} = 2\frac{13}{15}$
8. $\frac{1}{2} \cdot \frac{5}{7} \cdot 2 = \frac{5}{7}$
9. $\frac{13}{6} \cdot 6\frac{1}{2} \cdot 1\frac{1}{6} = \frac{1183}{72} = 16\frac{31}{72}$
10. $\frac{4}{5} \cdot \frac{4}{3} + 2\frac{3}{4} = \frac{16}{15} + \frac{11}{4} = \frac{64 + 165}{60} = \frac{229}{60} = 3\frac{49}{60}$
11. $\frac{6}{7} \cdot 1\frac{1}{3} + 2 \cdot \frac{3}{2} = \frac{8}{7} + \frac{3}{1} = \frac{29}{7} = 4\frac{1}{7}$
12. $\frac{5}{4} : \frac{13}{7} = \frac{5}{4} \cdot \frac{7}{13} = \frac{35}{52}$
13. $\frac{7}{3} \cdot 3\frac{1}{4} : 1\frac{3}{5} = \frac{7}{3} \cdot \frac{13}{4} \cdot \frac{5}{8} = \frac{455}{96} = 4\frac{71}{96}$
14. $\frac{6}{7} : \frac{8}{5} + \frac{11}{3} = \frac{6}{7} \cdot \frac{5}{8} + \frac{11}{3} = \frac{15}{28} + \frac{11}{3} = \frac{45 + 308}{84} = \frac{353}{84} = 4\frac{17}{84}$
15. $\frac{7}{6} : 2 + \frac{5}{4} : \frac{5}{7} = \frac{7 \cdot 1}{6 \cdot 2} + \frac{5 \cdot 7}{4 \cdot 5} = \frac{7}{12} + \frac{7}{4} = \frac{7}{3} = 2\frac{1}{3}$
16. $\frac{5}{3} : \frac{3}{5} + 4 : 3 = \frac{5 \cdot 5}{3 \cdot 3} + \frac{4 \cdot 1}{1 \cdot 3} = \frac{25}{9} + \frac{4}{3} = \frac{37}{9} = 4\frac{1}{9}$

Aufgaben

Verwandle die Brüche in Dezimalzahlen

1. $\frac{39}{100} = 0,39$ $\frac{113}{1000} = 0,113$ $100\frac{7}{10} = 100,7$ $\frac{17}{1000} = 0,017$

Verwandle die Dezimalzahlen in Brüche

2. $0,75 = \frac{3}{4}$ $2,4 = 2\frac{2}{5}$ $1,75 = 1\frac{3}{4}$ $1,875 = 1\frac{7}{8}$

3. $0,55 = \frac{11}{20}$ $0,875 = \frac{7}{8}$ $1,625 = 1\frac{5}{8}$ $0,55 = \frac{11}{20}$

4. $5,27 + 26,79 = 32,06$ $6,187 + 7,14 = 13,327$

5. $4,14 - 0,304 = 3,836$ $3,22 - 1,77 = 1,45$

6. $0,87 - 0,542 + 25,8 = 26,128$ $9,44 - 0,476 + 0,15 = 9,114$

7. $0,09 \cdot 6 = 0,54$ $0,8 \cdot 7 = 5,6$

8. $0,1 \cdot 38 = 3,8$ $0,09 \cdot 4,6 = 0,414$

9. $0,4 : 0,08 = 5$ $139,2 : 1,6 = 87$

10. $1,65 : 0,33 = 5$ $0,891 : 9 = 0,099$

11. $4,5 : 0,9 = 5$ $0,44 : 5,5 = 0,08$

12. $0,004 \cdot 0,001 = 0,000004$ $0,009 \cdot 0,002 = 0,000018$

13. $300 \cdot 0,0001 = 0,03$ $0,0003 \cdot 400 = 0,12$

14. $0,0006 \cdot 0,006 = 0,0000036$ $0,006 \cdot 0,0003 = 0,0000018$

15. $6,3 : 7 = 0,9$ $6,4 : 8 = 0,8$

16. $0,05 : 0,01 = 5$ $0,02 : 0,01 = 2$

17. $48 : 0,06 = 800$ $24 : 0,03 = 800$

18. $6,8 \cdot 5 = 34$ $15 \cdot 1,8 = 27$