

Mathematik-Intensivierung * Jahrgangsstufe 6

Addition und Subtraktion von Dezimalbrüchen und Brüchen

1. Berechne möglichst geschickt!

a) $2,4 + 1\frac{1}{2} + \frac{3}{5} + 3,7$

b) $2\frac{1}{3} + 1,25 + \frac{5}{12} + 3,25$

c) $1,3 + 1\frac{1}{5} + \frac{3}{20} + 3,15$

d) $1,15 - 1\frac{1}{15} + \frac{11}{15} + 11,5$

e) $\frac{2}{5} - 2,5 + \frac{2}{15} - 2,15$

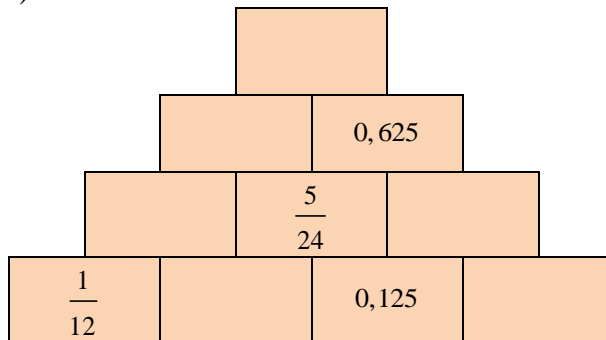
f) $1\frac{3}{20} - 3,12 + 4\frac{7}{25} - 2,31$

g) $1\frac{2}{3} - 3\frac{4}{5} + 6\frac{7}{8} - 9\frac{8}{12}$

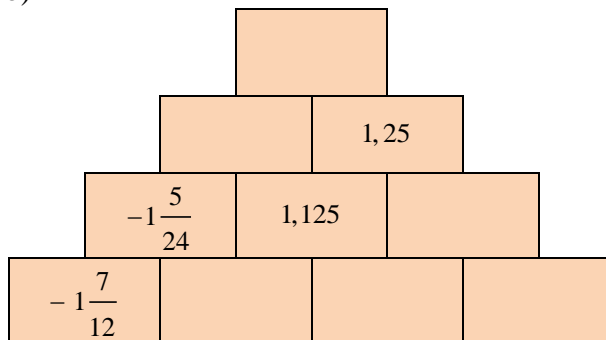
h) $1,5 - 1\frac{5}{8} - 5,8 + 8\frac{5}{20} - 2\frac{3}{40}$

2. In jedem Kästchen steht die Summe der beiden darunter liegenden Zahlen.
Ergänze alle fehlenden Zahlen!

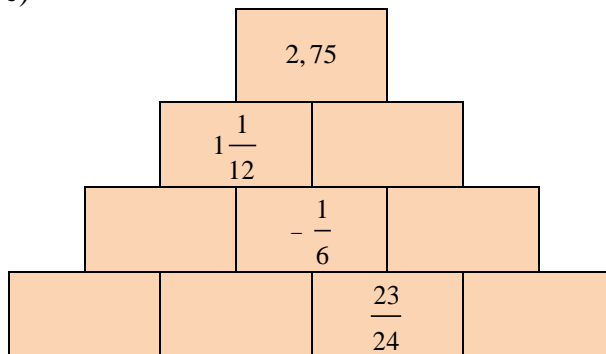
a)



b)



c)



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Addition und Subtraktion von Dezimalbrüchen und Brüchen



1. Berechne möglichst geschickt!

a) $2,4 + 1\frac{1}{2} + \frac{3}{5} + 3,7 = 2,4 + 1,5 + 0,6 + 3,7 = 8,2$

b) $2\frac{1}{3} + 1,25 + \frac{5}{12} + 3,25 = 2 + \frac{4}{12} + 1 + \frac{3}{12} + \frac{5}{12} + 3 + \frac{3}{12} = 6 + \frac{15}{12} = 7 + \frac{3}{12} = 7\frac{1}{4}$

c) $1,3 + 1\frac{1}{5} + \frac{3}{20} + 3,15 = 1,3 + 1\frac{20}{100} + \frac{15}{100} + 3,15 = 1,30 + 1,20 + 0,15 + 3,15 = 5,8$

d) $1,15 - 1\frac{1}{15} + \frac{11}{15} + 11,5 = 1,15 + 11,50 + \frac{11}{15} - \frac{16}{15} = 12,65 - \frac{5}{15} = 12 + \frac{65}{100} - \frac{1}{3} =$
 $12 + \frac{13}{20} - \frac{1}{3} = 12 + \frac{39}{60} - \frac{20}{60} = 12 + \frac{19}{60} = 12\frac{19}{60}$

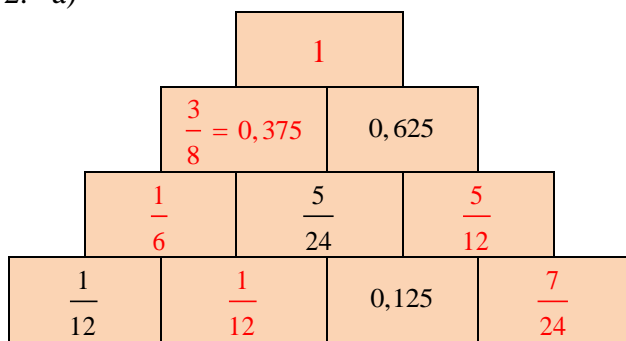
e) $\frac{2}{5} - 2,5 + \frac{2}{15} - 2,15 = \frac{6}{15} + \frac{2}{15} - 2,15 - 2,5 = \frac{8}{15} - 4,65 = \frac{8}{15} - 4\frac{65}{100} =$
 $\frac{8}{15} - 4 - \frac{13}{20} = \frac{32}{60} - \frac{39}{60} - 4 = -\frac{7}{60} - 4 = -4\frac{7}{60}$

f) $1\frac{3}{20} - 3,12 + 4\frac{7}{25} - 2,31 = 1\frac{15}{100} + 4\frac{28}{100} - 5,43 = 1,15 + 4,28 - 5,43 = 5,43 - 5,43 = 0$

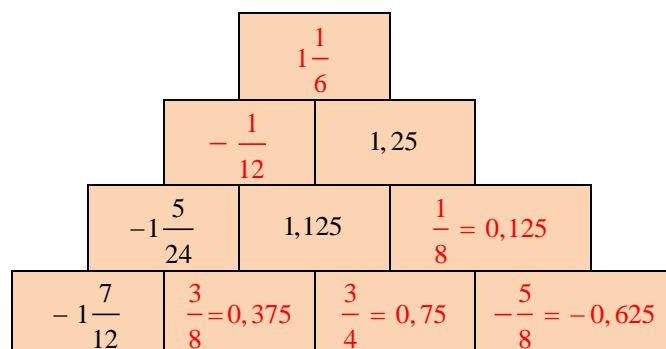
g) $1\frac{2}{3} - 3\frac{4}{5} + 6\frac{7}{8} - 9\frac{8}{12} = 1\frac{2}{3} - 3\frac{8}{10} + 6\frac{875}{1000} - 9\frac{2}{3} = 1\frac{2}{3} - 9\frac{2}{3} - 3,8 + 6,875 =$
 $-8 - 3,8 + 6,875 = -11,800 + 6,875 = -4,925 \quad (= -4\frac{37}{40})$

h) $1,5 - 1\frac{5}{8} - 5,8 + 8\frac{5}{20} - 2\frac{3}{40} = 1,5 - 1,625 - 5,8 + 8\frac{1}{4} - 2\frac{75}{1000} =$
 $1,5 - 1,625 - 5,8 + 8,25 - 2,075 = 9,75 - 9,5 = 0,25$

2. a)



b)



c)

