

AB Brüche S. 89/11

a:  $\frac{5}{18} + \frac{7}{12} + \frac{3}{8} =$  *HN: 72 = 4 \* 18 = 6 \* 12 = 9 \* 8*  
 $\frac{5 \cdot 4}{18 \cdot 4} + \frac{7 \cdot 6}{12 \cdot 6} + \frac{3 \cdot 9}{8 \cdot 9} = \frac{20+42+27}{72} = \frac{89}{72} = 1 \frac{17}{72}$

b:  $\frac{4}{9} + \frac{15}{27} - \frac{4}{6} = \frac{4}{9} + \frac{5}{9} - \frac{2}{3}$  *zuerst kürzen!! HN: 9 = 3 \* 3*  
 $= \frac{4+5-2 \cdot 3}{9} = \frac{9-6}{9} = \frac{3}{9} = \frac{1}{3}$

c:  $\frac{8}{21} - \frac{2}{15} + \frac{19}{35} =$  *HN: 105 = 5 \* 21 = 7 \* 15 = 3 \* 35*  
 $= \frac{8 \cdot 5 - 2 \cdot 7 + 19 \cdot 3}{105} = \frac{40 - 14 + 57}{105} = \frac{83}{105}$

d:  $1 \frac{11}{34} - \frac{15}{17} - \frac{6}{12} = 1 \frac{11}{34} - \frac{15}{17} - \frac{1}{2} =$  *zuerst kürzen!! HN: 34 = 2 \* 17*  
 $= 1 \frac{11}{34} - \frac{30}{34} - \frac{17}{34} = \frac{45-30-17}{34} = -\frac{2}{34} = -\frac{1}{17}$

e: zu schwierig: *HN: 3\*13\*4\*7 = 1095 !!!*

Wahrscheinlich ein Angabenfehler

f:  $\frac{44}{64} - \frac{20}{36} + \frac{42}{27} = \frac{11}{16} - \frac{5}{9} + \frac{14}{9} = \frac{11}{16} + \frac{9}{9} = 1 \frac{11}{16}$

g:  $\frac{55}{121} - \frac{2}{33} - \frac{16}{48} = \frac{5}{11} - \frac{2}{33} - \frac{1}{3}$  *zuerst kürzen!! HN: 33 = 3 \* 11*  
 $= \frac{5 \cdot 3 - 2 - 1 \cdot 11}{33} = \frac{2}{33}$

h:  $3 \frac{6}{16} - 1 \frac{5}{6} + 2 \frac{5}{12} = 3 \frac{3}{8} - 1 \frac{5}{6} + 2 \frac{5}{12} =$  *zuerst kürzen!! HN: 24 = 3 \* 8 = 4 \* 6*  
 $= 3 \frac{9}{24} - 1 \frac{20}{24} + 2 \frac{10}{24} = 5 \frac{19}{24} - 1 \frac{20}{24} = 4 \frac{43}{24} - 1 \frac{20}{24} = 3 \frac{23}{24}$   
*oder mit Zerlegen:*  $5 \frac{19}{24} - 1 \frac{20}{24} = 5 \frac{19}{24} - 1 - \frac{19}{20} - \frac{1}{20} = 4 - \frac{1}{20} = 3 \frac{23}{24}$