



SČÍTÁNÍ A ODCÍTÁNÍ ZLOMKŮ

(M-V-07-05)

A SMÍŠENÝCH ČÍSEL

Sečti: a) $\frac{5}{7} + \frac{3}{8} = \frac{8.5+7.3}{56} = \frac{40+21}{56} = \frac{61}{56} = 1\frac{5}{56}$

b) $1\frac{2}{3} + \frac{8}{9} = \frac{3.1+2}{3} + \frac{8}{9} = \frac{5}{3} + \frac{8}{9} = \frac{3.5+8}{9} = \frac{15+8}{9} = \frac{23}{9} = 2\frac{5}{9}$

c) $\frac{4}{5} + 1\frac{1}{7} = \frac{4}{5} + \frac{7.1+1}{7} = \frac{4}{5} + \frac{8}{7} = \frac{7.4+5.8}{35} = \frac{28+40}{35} = \frac{68}{35} = 1\frac{33}{35}$

d) $2\frac{4}{5} + 1\frac{2}{3} = \frac{5.2+4}{5} + \frac{3.1+2}{3} = \frac{14}{5} + \frac{5}{3} = \frac{3.14+5.5}{15} = \frac{42+25}{15} = \frac{67}{15} = 4\frac{7}{15}$

e) $3\frac{5}{6} + 4\frac{1}{5} = \frac{6.3+5}{6} + \frac{5.4+1}{5} = \frac{23}{6} + \frac{21}{5} = \frac{5.23+6.21}{30} = \frac{115+126}{30} = \frac{241}{30} = 8\frac{1}{30}$

f) $7\frac{1}{7} + 2\frac{3}{8} + 3 = \frac{7.7+1}{7} + \frac{8.2+3}{8} + \frac{3}{1} = \frac{50}{7} + \frac{19}{8} + \frac{3}{1} = \frac{8.50+7.19+56}{56} = \frac{400+133+56}{56} = \frac{589}{56} = 10\frac{29}{56}$

Odečti: a) $\frac{3}{4} - \frac{2}{9} = \frac{9.3-4.2}{36} = \frac{27-8}{36} = \frac{19}{36}$

b) $1\frac{2}{5} - \frac{3}{4} = \frac{5.1+2}{5} - \frac{3}{4} = \frac{7}{5} - \frac{3}{4} = \frac{4.7-5.3}{20} = \frac{28-15}{20} = \frac{13}{20}$

c) $2\frac{3}{7} - 1\frac{2}{5} = \frac{7.2+3}{7} - \frac{5.1+2}{5} = \frac{15}{7} - \frac{7}{5} = \frac{5.15-7.7}{35} = \frac{75-49}{35} = \frac{26}{35}$

d) $7\frac{6}{7} - 5\frac{2}{3} = \frac{7.7+6}{7} - \frac{3.5+2}{3} = \frac{55}{7} - \frac{17}{3} = \frac{165-119}{21} = \frac{46}{21} = 2\frac{4}{21}$

e) $5\frac{9}{11} - 3\frac{5}{6} = \frac{11.5+9}{11} - \frac{6.3+5}{6} = \frac{64}{11} - \frac{23}{6} = \frac{6.64-11.23}{66} = \frac{384-253}{66} = \frac{131}{66} = 1\frac{65}{66}$

f) $10 - \frac{2}{7} - 5\frac{7}{9} = \frac{10}{1} - \frac{2}{7} - \frac{9.5+7}{9} = \frac{10}{1} - \frac{2}{7} - \frac{52}{9} = \frac{630-9.2-7.52}{63} = \frac{630-18-364}{63} = \frac{248}{63} = 3\frac{59}{63}$