



ODČÍTÁNÍ ZLOMKŮ A SMÍŠENÝCH ČÍSEL (M-V-07-07)

Vypočítej.

$$1) 2 - \frac{9}{11} = \frac{2 \cdot 11 - 9}{11} = \frac{13}{11} = 1 \frac{2}{11}$$

$$2) 1 \frac{1}{5} - \frac{2}{3} = \frac{5 \cdot 1 + 1}{5} - \frac{2}{3} = \frac{6 \cdot 3 - 2 \cdot 5}{15} = \frac{18 - 10}{15} = \frac{8}{15}$$

$$3) 3 \frac{6}{7} - 2 \frac{1}{4} = \frac{7 \cdot 3 + 6}{7} - \frac{2 \cdot 4 + 1}{4} = \frac{27}{7} - \frac{9}{4} = \frac{4 \cdot 27 - 7 \cdot 9}{28} = \frac{108 - 63}{28} = \frac{45}{28} = 1 \frac{17}{28}$$

$$4) 5 \frac{8}{9} - \frac{4}{3} = \frac{9 \cdot 5 + 8}{9} - \frac{4}{3} = \frac{53}{9} - \frac{4}{3} = \frac{53 - 3 \cdot 4}{9} = \frac{53 - 12}{9} = \frac{41}{9} = 4 \frac{5}{9}$$

$$5) 6 - \frac{5}{8} - \frac{2}{9} = 6 - \frac{9 \cdot 5 - 8 \cdot 2}{72} = \frac{6 \cdot 72 - 45 - 16}{72} = \frac{432 - 45 - 16}{72} = \frac{371}{72} = 5 \frac{11}{72}$$

$$6) 7 \frac{3}{5} - 3 \frac{5}{7} - \frac{3}{10} = \frac{7 \cdot 5 + 3}{5} - \frac{7 \cdot 3 + 5}{7} - \frac{3}{10} = \frac{38}{5} - \frac{26}{7} - \frac{3}{10} =$$

$$= \frac{14 \cdot 38 - 26 \cdot 10 - 7 \cdot 3}{70} = \frac{532 - 260 - 21}{70} = \frac{251}{70} = 3 \frac{41}{70}$$

$$7) 4 \frac{9}{15} - 1 \frac{3}{5} - 1 \frac{7}{10} = \frac{4 \cdot 15 + 9}{15} - \frac{5 \cdot 1 + 3}{5} - \frac{10 \cdot 1 + 7}{10} = \frac{69}{15} - \frac{8}{5} - \frac{17}{10} = \frac{2 \cdot 69 - 6 \cdot 8 - 3 \cdot 17}{30} =$$

$$= \frac{138 - 48 - 51}{30} = \frac{39}{30} = 1 \frac{9}{30} = 1 \frac{3}{10}$$

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$$8) 9\frac{2}{3} - 2\frac{1}{6} - 3\frac{2}{9} = \frac{3 \cdot 9 + 2}{3} - \frac{6 \cdot 2 + 1}{6} - \frac{9 \cdot 3 + 2}{9} = \frac{29}{3} - \frac{13}{6} - \frac{29}{9} = \frac{6 \cdot 29 - 3 \cdot 13 - 2 \cdot 29}{18} =$$

$$= \frac{174 - 39 - 58}{18} = \frac{77}{18} = 4\frac{5}{18}$$

$$9) 12\frac{9}{13} - 3\frac{1}{2} - 4 = \frac{12 \cdot 13 + 9}{13} - \frac{3 \cdot 2 + 1}{2} - \frac{26 \cdot 4}{26} = \frac{165}{13} - \frac{7}{2} - \frac{104}{26} = \frac{2 \cdot 165 - 13 \cdot 7 - 104}{26} =$$

$$= \frac{330 - 91 - 104}{26} = \frac{135}{26} = 5\frac{5}{26}$$

$$10) 15\frac{5}{12} - 3\frac{7}{9} - 5\frac{3}{4} = \frac{15 \cdot 12 + 5}{12} - \frac{9 \cdot 3 + 7}{9} - \frac{4 \cdot 5 + 3}{4} = \frac{185}{12} - \frac{34}{9} - \frac{23}{4} =$$

$$= \frac{3 \cdot 185 - 4 \cdot 34 - 9 \cdot 23}{36} = \frac{555 - 136 - 207}{36} = \frac{212}{36} = 5\frac{32}{36} = 5\frac{8}{9}$$