

REŠITVE - Vaje - RAČUNANJE Z ULOMKI

① a) $1\frac{7}{16} + \frac{13}{16} = 1\frac{20}{16} = 2\frac{4}{16} = 2\frac{1}{4}$

b) $3\frac{4}{5} + 2\frac{1}{6} = 3\frac{24}{30} + 2\frac{5}{30} = 5\frac{29}{30}$

c) $7\frac{9}{14} - 4\frac{1}{4} = 7\frac{18}{28} - 4\frac{7}{28} = 3\frac{11}{28}$

d) $4\frac{1}{6} - 2\frac{5}{6} = 3\frac{7}{6} - 2\frac{5}{6} = 1\frac{2}{6} = 1\frac{1}{3}$

e) $5 - 3\frac{6}{13} = 4\frac{13}{13} - 3\frac{6}{13} = 1\frac{7}{13}$

f) $5,5 + 3\frac{1}{3} = 5\frac{1}{2} + 3\frac{1}{3} = 5\frac{3}{6} + 3\frac{2}{6} = 8\frac{5}{6}$

③ a) $x + 2\frac{3}{8} = 3\frac{1}{4}$

$x = 3\frac{1}{4} - 2\frac{3}{8}$

$x = 3\frac{2}{8} - 2\frac{3}{8}$

$x = 2\frac{10}{8} - 2\frac{3}{8}$

$x = \frac{7}{8}$

b) $a : 3\frac{3}{4} = 1\frac{2}{3}$

$a = 3\frac{3}{4} \cdot 1\frac{2}{3}$

$a = \frac{15}{4} \cdot \frac{5}{3} = \frac{25}{4}$

$a = 6\frac{1}{4}$

② a) $\frac{15}{18} \cdot \frac{12^2}{25} = \frac{2}{5}$

b) $3\frac{1}{7} \cdot 1\frac{4}{11} = \frac{22}{7} \cdot \frac{15}{11} = \frac{30}{7} = 4\frac{2}{7}$

c) $1,75 \cdot 1\frac{1}{21} = 1\frac{3}{4} \cdot 1\frac{1}{21} = \frac{7}{4} \cdot \frac{22}{21} = \frac{11}{6} = 1\frac{5}{6}$

d) $\frac{3}{4} : \frac{8}{7} = \frac{3}{4} \cdot \frac{7}{8} = \frac{21}{32}$

e) $6\frac{2}{5} : 4\frac{4}{5} = \frac{32}{5} : \frac{24}{5} = \frac{32}{5} \cdot \frac{5}{24} = \frac{4}{3} = 1\frac{1}{3}$

f) $2\frac{1}{3} : 14 = \frac{7}{3} : \frac{14}{1} = \frac{7}{3} \cdot \frac{1}{14} = \frac{1}{6}$

④ a) $5\frac{8}{9} - 3\frac{1}{3} : 2\frac{6}{7} =$

$5\frac{8}{9} - \frac{10}{3} : \frac{20}{7} =$

$5\frac{8}{9} - \frac{10}{3} \cdot \frac{7}{20} =$

$5\frac{8}{9} - \frac{7}{6} = 5\frac{8}{9} - 1\frac{1}{6} =$

$5\frac{16}{18} - 1\frac{3}{18} = 4\frac{13}{18}$

b) $(4\frac{1}{2} - 2\frac{2}{5}) : (\frac{7}{8} + \frac{1}{4}) =$

$= (4\frac{5}{10} - 2\frac{4}{10}) : (\frac{7}{8} + \frac{2}{8}) =$

$= 2\frac{1}{10} : \frac{9}{8} = \frac{21}{10} \cdot \frac{8}{9} = \frac{28}{15} = 1\frac{13}{15}$

d) $\frac{2}{3} \cdot 1\frac{1}{8} + 1\frac{1}{4} : (2,5 + 1\frac{2}{3}) =$

$= \frac{2}{3} \cdot \frac{9}{8} + 1\frac{1}{4} : (2\frac{1}{2} + 1\frac{2}{3}) =$

$= \frac{3}{4} + \frac{5}{4} : (2\frac{3}{6} + 1\frac{4}{6}) =$

$= \frac{3}{4} + \frac{5}{4} : 3\frac{7}{6} = \frac{3}{4} + \frac{5}{4} : \frac{25}{6} =$

$= \frac{3}{4} + \frac{5}{4} \cdot \frac{6}{25} = \frac{3}{4} + \frac{6}{20} = \frac{15}{20} + \frac{6}{20} =$

$= \frac{21}{20} = 1\frac{1}{20}$

c) $(2\frac{3}{4} + 7\frac{1}{6} - 8\frac{3}{8}) \cdot 4,8 =$

$= (2\frac{18}{24} + 7\frac{4}{24} - 8\frac{9}{24}) \cdot \frac{48}{10} =$

$= (9\frac{22}{24} - 8\frac{9}{24}) \cdot \frac{48}{10} = 1\frac{13}{24} \cdot \frac{48}{10} =$

$= \frac{37}{24} \cdot \frac{48}{10} = \frac{37}{5} = 7\frac{2}{5}$

$$\begin{aligned}
 \textcircled{c} \quad & 2\frac{2}{15} \cdot \left(15\frac{3}{8} - 3\frac{3}{4} \cdot 1\frac{3}{5}\right) - 2,5 : \frac{4}{7} = \\
 & = 2\frac{2}{15} \cdot \left(15\frac{3}{8} - \frac{15^3}{4_1} \cdot \frac{8}{5_1}\right) - 2\frac{1}{2} : \frac{4}{7} = \\
 & = 2\frac{2}{15} \cdot \left(15\frac{3}{8} - 6\right) - \frac{5}{2} \cdot \frac{7}{4} = \\
 & = \frac{32}{15} \cdot 9\frac{3}{8} - \frac{35}{8} = \\
 & = \frac{32}{15} \cdot \frac{75}{8} - \frac{35}{8} = \\
 & = \frac{160}{8} - \frac{35}{8} = \frac{125}{8} = \underline{\underline{15\frac{5}{8}}}
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{5} \quad \text{a) } & 2\frac{2}{5} \cdot 4\frac{1}{6} - \left(2\frac{3}{5} + 1\frac{1}{6}\right) = \\
 & = \frac{12^2}{5} \cdot \frac{25}{6_1} - \left(2\frac{18}{30} + 1\frac{5}{30}\right) = \\
 & = 10 - 3\frac{23}{30} = 9\frac{30}{30} - 3\frac{23}{30} = \underline{\underline{6\frac{7}{30}}}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & \left(1\frac{3}{4} + 1\frac{7}{12}\right) : \left(2\frac{2}{5} \cdot \frac{1}{6}\right) = \\
 & = \left(1\frac{9}{12} + 1\frac{7}{12}\right) : \left(\frac{12^2}{5} \cdot \frac{1}{6_1}\right) = \\
 & = 2\frac{16}{12} : \frac{2}{5} = \frac{40}{12} \cdot \frac{5}{2} = \frac{25}{3} = \underline{\underline{8\frac{1}{3}}}
 \end{aligned}$$