

Př. Vypočítejte a výsledek zapíše zlozmkem v základním tvaru.

$$\frac{5}{9} - \frac{5}{9} : 5 = \frac{5}{9} - \frac{5}{9} \cdot \frac{1}{5} = \frac{5}{9} - \frac{1}{9} = \underline{\underline{\frac{4}{9}}}$$

$$\frac{4-7}{8} \cdot \frac{16}{21} = \frac{-3}{8} \cdot \frac{16}{21} = -\frac{2}{7}$$

$$\frac{\frac{3}{5} : (\frac{2}{5} + \frac{1}{2})}{\frac{7}{6} + \frac{7}{10}} = \frac{\frac{3}{5} : (\frac{4+5}{10})}{\frac{35+21}{30}} = \frac{\frac{3}{5} \cdot \frac{10}{9}}{\frac{56}{30}} = \frac{\frac{2}{3}}{\frac{56}{30}} = \frac{2}{3} \cdot \frac{30}{56} = \frac{10}{28} = \underline{\underline{\frac{5}{14}}}$$

$$\frac{1}{3} \cdot \frac{1}{2} - \frac{8}{9} = \frac{1}{6} - \frac{8}{9} = \frac{3-16}{18} = \underline{\underline{-\frac{13}{18}}}$$

$$(2 - \frac{5}{6}) : \frac{5}{3} = (\frac{12}{6} - \frac{5}{6}) \cdot \frac{3}{5} = \frac{7}{6} \cdot \frac{3}{5} = \underline{\underline{\frac{7}{10}}}$$

$$\frac{\frac{2}{3} + \frac{2}{7}}{(\frac{9}{14} + \frac{3}{2}) \cdot 2} = \frac{\frac{14+6}{21}}{(\frac{9+21}{14}) \cdot 2} = \frac{\frac{20}{21}}{\frac{30}{7}} = \frac{20}{21} \cdot \frac{7}{30} = \underline{\underline{\frac{2}{9}}}$$

$$3 \cdot \frac{2}{7} - \frac{2}{7} = \frac{6}{7} - \frac{2}{7} = \underline{\underline{\frac{4}{7}}}$$

$$1 - \frac{14}{5} : 2 = 1 - \frac{14}{5} \cdot \frac{1}{2} = \frac{10}{10} - \frac{14}{10} = -\frac{4}{10} = -\underline{\underline{\frac{2}{5}}}$$

$$\frac{\frac{3}{4} + \frac{4}{3}}{\frac{5}{7} \cdot \frac{14}{3}} = \frac{\frac{9+16}{12}}{\frac{10}{3}} = \frac{\frac{25}{12}}{\frac{10}{3}} = \frac{25}{12} \cdot \frac{3}{10} = \underline{\underline{\frac{5}{8}}}$$

$$\frac{\frac{2}{3} - 1}{\frac{8}{9}} = \frac{\frac{2}{3} - \frac{3}{3}}{\frac{8}{9}} = \frac{-\frac{1}{3}}{\frac{8}{9}} = -\frac{1}{3} \cdot \frac{9}{8} = -\underline{\underline{\frac{3}{8}}}$$

$$2 \cdot \frac{1}{6} - \frac{3}{8} \cdot 4 = \frac{1}{3} - \frac{3}{2} = \frac{2-9}{6} = -\underline{\underline{\frac{7}{6}}}$$

$$\frac{\frac{6}{7} - \frac{9}{14}}{\frac{8}{7} + \frac{6}{7} : \frac{3}{2}} = \frac{\frac{12-9}{14}}{\frac{8}{7} + \frac{12}{21}} = \frac{\frac{3}{14}}{\frac{36}{21}} = \frac{3}{14} \cdot \frac{21}{36} = \underline{\underline{\frac{1}{8}}}$$

$$\frac{8}{5} \cdot (\frac{5}{6} \cdot \frac{7}{10} - \frac{5}{6}) = \frac{8}{5} \cdot (\frac{7}{12} - \frac{10}{12}) = \frac{8}{5} \cdot (-\frac{3}{12}) = -\underline{\underline{\frac{2}{5}}}$$

$$\frac{(\frac{4}{5} - \frac{2}{3}) \cdot \frac{5}{8}}{\frac{2}{3}} = \frac{(\frac{12-10}{15}) \cdot \frac{5}{8}}{\frac{2}{3}} = \frac{\frac{2}{3} \cdot \frac{5}{8}}{\frac{2}{3}} = \frac{\frac{1}{12}}{\frac{2}{3}} = \frac{1}{12} \cdot \frac{3}{2} = \underline{\underline{\frac{1}{8}}}$$

$$\frac{7}{5} \cdot \frac{3}{8} \cdot \frac{10}{21} + \frac{3}{10} = \frac{1}{4} + \frac{3}{10} = \frac{5+6}{20} = \underline{\underline{\frac{11}{20}}}$$

$$\frac{42}{5} \cdot \left(\frac{3}{14} - \frac{5}{21} \right) = \frac{42}{5} \cdot \left(\frac{9-10}{42} \right) = \frac{42}{5} \cdot \left(-\frac{1}{42} \right) = \underline{\underline{-\frac{1}{5}}}$$

$$\frac{\left(\frac{3}{4} - \frac{1}{2} \right) : \frac{3}{2}}{2 \cdot \frac{5}{8}} = \frac{\left(\frac{3-2}{4} \right) \cdot \frac{2}{3}}{\frac{5}{4}} = \frac{\frac{1}{4} \cdot \frac{2}{3}}{\frac{5}{4}} = \frac{\frac{1}{6}}{\frac{5}{4}} = \frac{1}{6} \cdot \frac{4}{5} = \frac{2}{15}$$

$$\frac{10}{13} \cdot \left(\frac{7}{10} - \frac{3}{8} \right) : 2 = \frac{10}{13} \cdot \left(\frac{28-15}{40} \right) \cdot \frac{1}{2} = \frac{10}{13} \cdot \frac{13}{40} \cdot \frac{1}{2} = \frac{1}{8}$$

$$\frac{14 \cdot \frac{27}{28} \cdot \frac{21}{9}}{1 - \frac{5}{3} + \frac{2}{7}} = \frac{\frac{3}{14}}{\frac{21-35+6}{21}} = \frac{\frac{3}{14}}{-\frac{8}{21}} = -\frac{3}{14} \cdot \frac{21}{8} = -\frac{9}{16}$$

$$\left(\frac{2}{7} - \frac{4}{7} \cdot 2 \right) : 2 = \left(\frac{2}{7} - \frac{8}{7} \right) \cdot \frac{1}{2} = \frac{-6}{7} \cdot \frac{1}{2} = \underline{\underline{-\frac{3}{7}}}$$

$$\frac{\frac{3}{4} + \frac{4}{3}}{\frac{5}{7} \cdot \frac{14}{3}} = \frac{\frac{9+16}{12}}{\frac{10}{3}} = \frac{25}{12} \cdot \frac{3}{10} = \frac{5}{8}$$

$$\frac{9}{14} \cdot \left(2 \cdot \frac{1}{6} - \frac{3}{8} \cdot 4 \right) = \frac{9}{14} \cdot \left(\frac{1}{3} - \frac{3}{2} \right) = \frac{9}{14} \cdot \left(\frac{2-9}{6} \right) = \frac{9}{14} \cdot \left(-\frac{7}{6} \right) = \underline{\underline{-\frac{3}{4}}}$$

$$\frac{\frac{6}{7} - \frac{9}{14}}{\frac{8}{7} + \frac{6}{7} : \frac{3}{2}} = \frac{\frac{12-9}{14}}{\frac{8}{7} + \frac{6}{7} \cdot \frac{2}{3}} = \frac{\frac{3}{14}}{\frac{8}{7} + \frac{4}{7}} = \frac{\frac{3}{14}}{\frac{12}{7}} = \frac{3}{14} \cdot \frac{7}{12} = \underline{\underline{\frac{1}{8}}}$$

$$\frac{2}{5} : \frac{8}{15} - \frac{7}{8} = \frac{2}{5} \cdot \frac{15}{8} - \frac{7}{8} = \frac{6}{8} - \frac{7}{8} = \underline{\underline{-\frac{1}{8}}}$$

$$\frac{\frac{9}{1} \cdot \frac{14}{15}}{\left(\frac{4}{3} + 2 \right) \cdot 3} = \frac{\frac{6}{5}}{\frac{10}{1}} = \frac{6}{5} \cdot \frac{1}{10} = \underline{\underline{\frac{3}{25}}}$$

$$\frac{7}{48} - \frac{7}{8} = \frac{7}{24} - \frac{7}{8} = \frac{7-21}{24} = \underline{\underline{-\frac{14}{24}}}$$

$$\frac{\frac{2}{7} \cdot \frac{2}{3}}{\frac{6}{7} + \frac{2}{3}} = \frac{\frac{4}{21}}{\frac{18+14}{21}} = \frac{4}{32} = \frac{1}{8}$$

$$\left(\frac{3}{4} + \frac{13}{6} \right) \cdot \left(\frac{2}{5} - 1 \right) = \left(\frac{9+26}{12} \right) \cdot \left(\frac{2-5}{5} \right) = \frac{35}{12} \cdot \left(-\frac{3}{5} \right) = \underline{\underline{-\frac{7}{4}}}$$

$$\frac{\frac{3}{5} \cdot 2 - 4 \cdot \frac{2}{7}}{2} = \frac{\frac{6}{5} - \frac{8}{7}}{2} = \frac{\frac{42-40}{35}}{2} = \frac{-2}{70} = \underline{\underline{-\frac{1}{35}}}$$

$$6.5 - 1.5 : 5 = \boxed{6.2}$$

$$6.5 - 0.3 = 6.2$$

$$\boxed{19.8} \cdot 2 = 30 + 24 \cdot 0.4$$

$$30 + 9.6 = 39.6$$

$$39.6 : 2 = 19.8$$

$$19.8$$