

Složené zlomky – procvičování s řešením

1.

$$\frac{\frac{75}{72} - \frac{5}{15}}{\frac{48}{4}} = \frac{\frac{5}{6}}{\frac{1}{1}} = \frac{5}{6} \cdot \frac{1}{4} = \frac{5 \cdot 4}{6 \cdot 1} = \frac{10}{3} = \underline{\underline{3\frac{1}{3}}}$$

$$3\frac{5}{6} - \frac{23}{5} = \frac{1}{5} = \frac{46}{5} = \underline{\underline{9\frac{1}{5}}}$$

$$\frac{\frac{28}{65} - \frac{4}{7}}{\frac{13}{1}} = \frac{\frac{5}{1}}{\frac{1}{5}} = \underline{\underline{5}}$$

$$\frac{\frac{7}{18} - \frac{7}{21}}{\frac{1}{3}} = \frac{\frac{1}{6}}{\frac{1}{1}} = \underline{\underline{\frac{1}{6}}}$$

2.

$$\frac{2\frac{2}{3} - \frac{24}{7}}{1\frac{1}{9} - \frac{16}{15}} = \frac{\frac{8}{9} - \frac{24}{16}}{\frac{1}{9} - \frac{16}{15}} = \frac{\frac{200 - 72}{80 - 48}}{\frac{128}{45}} = \frac{\frac{128}{75}}{\frac{32}{45}} = \frac{128 \cdot 45}{75 \cdot 32} = \frac{4 \cdot 3}{5 \cdot 1} = \frac{12}{5} = \underline{\underline{2\frac{2}{5}}}$$

$$\frac{1\frac{1}{5} - \frac{2}{9}}{2\frac{1}{10} - \frac{4}{15}} = \frac{\frac{6}{5} - \frac{2}{9}}{\frac{21}{10} - \frac{4}{15}} = \frac{\frac{54 - 10}{63 - 8}}{\frac{44}{30} - \frac{4}{2}} = \frac{\frac{44}{55}}{\frac{3}{5}} = \frac{44}{55} \cdot \frac{5}{3} = \underline{\underline{\frac{8}{15}}}$$

3.

1.
$$\frac{\frac{3}{9} - \frac{1}{5}}{\frac{4}{4}} = \frac{\frac{5}{15} - \frac{3}{15}}{\frac{4}{4}} = \underline{\underline{-\frac{2}{15}}}$$

2.
$$\frac{3,5}{\frac{4}{8}} = \frac{\frac{35}{10}}{\frac{1}{2}} = \frac{7}{1} = \underline{\underline{7}}$$

3.
$$\frac{4,8 - \frac{3}{5}}{2\frac{1}{4}} = \frac{\frac{48}{10} - \frac{6}{10}}{\frac{9}{4}} = \frac{\frac{42}{10}}{\frac{9}{4}} = \frac{14}{5} \cdot \frac{2}{3} = \frac{28}{15} = \underline{\underline{1\frac{13}{15}}}$$

$$4. \frac{\frac{1}{4} - \frac{1}{2} \cdot \frac{1}{3}}{\left(\frac{2}{3} + \frac{1}{4}\right)} = \frac{\frac{1}{4} - \frac{1}{6}}{\left(\frac{8+3}{12}\right)} = \frac{\frac{3-2}{12}}{\frac{8+3}{12}} = \frac{1}{\underline{\underline{11}}}$$

4.

$$1. \frac{\frac{15}{4}}{-\frac{3}{5}} = \frac{\frac{5}{4}}{-\frac{1}{5}} = -\frac{25}{4} = -6\frac{1}{4} \qquad 2. \frac{4,2}{\frac{4}{5}} = \frac{\frac{42}{10}}{\frac{4}{5}} = \frac{\frac{21}{5}}{\frac{4}{5}} = \frac{21}{4} = 5\frac{1}{4}$$

$$3. \frac{2,5 - \frac{3}{4}}{1\frac{1}{3}} = \frac{\frac{10}{4} - \frac{3}{4}}{\frac{4}{3}} = \frac{\frac{50-15}{4}}{\frac{4}{3}} = \frac{\frac{7}{4}}{\frac{4}{3}} = \frac{21}{16} = 1\frac{5}{16}$$

$$4. \frac{1\frac{1}{5} - \frac{1}{3} \cdot \frac{1}{4}}{\left(\frac{2}{5} + \frac{1}{3}\right)} = \frac{\frac{6}{5} - \frac{1}{12}}{\left(\frac{6+5}{15}\right)} = \frac{\frac{72-5}{60}}{\frac{11}{15}} = \frac{\frac{67}{4}}{\frac{11}{1}} = \frac{67}{44} = 1\frac{23}{44}$$