

## Sčítání a odčítání racionálních čísel

1. Vypočítejte:

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

b)  $\frac{2}{5} - \frac{3}{4} =$

c)  $2\frac{1}{3} - 3\frac{1}{2} =$

d)  $-3\frac{2}{7} + 3\frac{5}{14} =$

2. Vypočítejte:

a)  $2,25 - 3,34 =$

b)  $-35,3 + 25,6 =$

c)  $-14,28 - 15,64 =$

d)  $+0,586 - 7,235 =$

3. Vypočítejte:

a)  $\frac{5}{6} - \left(-\frac{3}{4}\right) - 2 + \left(-\frac{5}{3}\right) =$

b)  $3\frac{1}{2} + \left(-2\frac{3}{4}\right) - \left(-\frac{2}{5}\right) =$

c)  $4\frac{2}{5} - 5,6 + \left(-2\frac{2}{3}\right) =$

d)  $-12,4 + \frac{42}{5} - \left(-6\frac{3}{4}\right) =$

## Řešení:

1. Vypočítejte:

$$a) \frac{1}{2} + \frac{2}{3} = \frac{3+4}{6} = \frac{7}{6} = 1\frac{1}{6}$$

$$b) \frac{2}{5} - \frac{3}{4} = \frac{8-15}{20} = -\frac{7}{20}$$

$$c) 2\frac{1}{3} - 3\frac{1}{2} = \frac{7}{3} - \frac{7}{2} = \frac{14-21}{6} = -\frac{7}{6} = -1\frac{1}{6}$$

$$d) -3\frac{2}{7} + 3\frac{5}{14} = -\frac{23}{7} + \frac{47}{14} = \frac{-46+47}{14} = \frac{1}{14} \quad \text{nebo} \quad -3+3-\frac{2}{7} + \frac{5}{14} = \frac{-4+5}{14} = \frac{1}{14}$$

2. Vypočítejte:

$$a) 2,25 - 3,34 = -1,09$$

$$b) -35,3 + 25,6 = -9,7$$

$$c) -14,28 - 15,64 = -29,92$$

$$d) +0,586 - 7,235 = -6,649$$

3. Vypočítejte:

$$a) \frac{5}{6} - \left(-\frac{3}{4}\right) - 2 + \left(-\frac{5}{3}\right) = \frac{5}{6} + \frac{3}{4} - 2 - \frac{5}{3} = \frac{10+9-24-20}{12} = \frac{-25}{12} = -2\frac{1}{12}$$

$$b) 3\frac{1}{2} + \left(-2\frac{3}{4}\right) - \left(-\frac{2}{5}\right) = \frac{7}{2} - \frac{11}{4} + \frac{2}{5} = \frac{70-55+8}{20} = \frac{23}{20} = 1\frac{3}{20}$$

$$c) 4\frac{2}{5} - 5,6 + \left(-2\frac{2}{3}\right) = \frac{22}{5} - \frac{56}{10} - \frac{8}{3} = \frac{22}{5} - \frac{28}{5} - \frac{8}{3} = -\frac{6}{5} - \frac{8}{3} = \frac{-18-40}{15} = \frac{-58}{15} = -3\frac{13}{15}$$

$$d) -12,4 + \frac{42}{5} - \left(-6\frac{3}{4}\right) = -\frac{124}{10} + \frac{42}{5} + \frac{27}{4} = -\frac{62}{5} + \frac{42}{5} + \frac{27}{4} = -\frac{20}{5} + \frac{27}{4} = \frac{-80+135}{20} = \frac{55}{20} = \frac{11}{4} = 2\frac{3}{4}$$

nebo

$$-12,4 + \frac{84}{10} + 6\frac{75}{100} = -12,4 + 8,4 + 6,75 = 2,75$$