



Računanje z ulomki

Naloga 1. Zapiši nasprotno in obratno vrednost danega racionalnega števila: $\frac{1}{2}$, 3, -2 , $-\frac{5}{4}$ in $1\frac{2}{3}$.

Naloga 2. Izračunaj: **a)** $\frac{33}{25} \cdot \frac{5}{11}$, **b)** $\frac{12}{7} \cdot \frac{21}{36}$, **c)** $\frac{125}{13} : \frac{250}{78}$, **d)** $\frac{144}{35} : \frac{36}{7}$, **e)** $\frac{4}{5} + \frac{3}{2}$, **f)** $\frac{25}{12} + \frac{22}{24}$, **g)** $\frac{2}{3} - \frac{1}{6}$, **h)** $\frac{15}{8} - \frac{5}{24}$.

Naloga 3. Izračunaj:

a) $1\frac{2}{3} \cdot \frac{9}{25} : \frac{3}{5}$

b) $\frac{7}{12} \cdot (-\frac{6}{19}) : \frac{21}{38} + \frac{1}{2} \cdot \frac{4}{9}$

c) $1\frac{4}{5} : \frac{18}{35} + \frac{14}{3} \cdot (-\frac{9}{4})$

d) $(\frac{2}{3})^{-1} \cdot \frac{4}{9} - \frac{121}{45} : \frac{11}{15} \cdot \frac{3}{22}$

e) $\frac{5}{6} - \frac{8}{3} \cdot (-\frac{1}{16}) - (\frac{27}{5})^{-1} : \frac{5}{27}$

f) $2\frac{5}{12} : \frac{58}{3} - \frac{5}{7} \cdot \frac{14}{8} - \frac{3}{4} : (-\frac{6}{5})$

Naloga 4. Izračunaj:

a) $(4\frac{1}{3} - 1\frac{5}{6}) \cdot (1\frac{3}{10} - 1)$

b) $2 - (\frac{1}{3} + \frac{2}{3} \cdot \frac{3}{4} - \frac{5}{12} : (-\frac{5}{2}))$

c) $(\frac{7}{5} - 2 \cdot (\frac{8}{7} - \frac{3}{5})) : \frac{11}{35}$

d) $(2\frac{3}{5} - \frac{8}{5} \cdot (1\frac{1}{4} - \frac{7}{8})) \cdot (\frac{3}{4} - \frac{1}{2})$

e) $(1\frac{1}{3} - \frac{\sqrt{2}}{4} \cdot (\frac{\sqrt{8}}{3} - \frac{\sqrt{32}}{2})) : (2\frac{2}{3} - \frac{3}{4} \cdot \frac{8}{9})$

f) $(\frac{\sqrt{27}}{2})^{-1} (2\frac{2}{5} + \frac{3}{5} \cdot (\frac{\sqrt{3}}{3} - 4)) : (2\frac{1}{2} + \frac{25}{9} \cdot \frac{27}{6})^{-1}$

Naloga 5. Odpravi dvojne ulomke: **a)** $\frac{\frac{1}{4}}{\frac{3}{8}}$, **b)** $\frac{1\frac{2}{3}}{\frac{7}{6}}$, **c)** $\frac{2\frac{1}{5}}{1\frac{5}{6}}$, **d)** $\frac{\frac{\sqrt{125}}{3}}{\frac{\sqrt{5}}{8}}$, **e)** $\frac{\frac{3}{4} - \frac{3}{8}}{1\frac{2}{5} \cdot \frac{3}{7}}$, **f)**

$$\frac{\frac{\sqrt{2}}{3} - \frac{1}{2}}{\frac{\sqrt{8}}{9} - \frac{1}{3}}.$$



Naloga 1. $\frac{1}{2}$ ima nasprotno vrednost $-\frac{1}{2}$ in obratno vrednost 2. 3 ima nasprotno vrednost -3 in obratno vrednost $\frac{1}{3}$. -2 ima nasprotno vrednost 2 in obratno vrednost $-\frac{1}{2}$. $-\frac{5}{4}$ ima nasprotno vrednost $\frac{5}{4}$ in obratno vrednost $-\frac{4}{5}$. $1\frac{2}{3} = \frac{5}{3}$ ima nasprotno vrednost $-1\frac{2}{3} = -\frac{5}{3}$ in obratno vrednost $\frac{3}{5}$.

Naloga 2. a) $\frac{3}{5}$ b) 1 c) 3 d) $\frac{4}{5}$ e) $\frac{23}{10}$ f) 3 g) $\frac{1}{2}$ h) $\frac{5}{3}$

Naloga 3. a) 1 b) $-\frac{1}{9}$ c) -7 d) $\frac{1}{6}$ e) 0 f) $-\frac{1}{2}$

Naloga 4. a) $\frac{3}{4}$ b) 1 c) 1 d) $\frac{1}{2}$ e) 1 f) 2

Naloga 5. a) $\frac{2}{3}$ b) $\frac{10}{7}$ c) $\frac{6}{5}$ d) $\frac{40}{3}$ e) $\frac{5}{8}$ f) $\frac{3}{2}$