

Vježba 1 - Operacije s razlomcima

MATEMATIKA

Razred: I-a

1 Razlomci i decimalni brojevi

Zadatak 1 *Odredi vrijednost izraza:*

a) $\frac{4}{11} + \frac{8}{11} =$ b) $\frac{21}{5} + \frac{12}{5} - \frac{8}{5} =$ c) $\frac{22}{7} - \frac{11}{7} + \frac{2}{7} =$

d) $1 + \frac{7}{8} =$ e) $2 - \frac{1}{4} =$ f) $1 + \frac{14}{19} =$

g) $3 - \frac{77}{4} =$ h) $5 + \frac{2}{5} - \frac{6}{7} =$ i) $\frac{22}{5} - \frac{17}{3} =$

Zadatak 2 *Izračunaj:*

a) $\left(\frac{3}{8} - \frac{5}{4}\right) - \left(\frac{3}{16} - \frac{1}{8}\right) =$ b) $\left(\frac{5}{7} + \frac{1}{4} - \frac{1}{21}\right) - \left(\frac{2}{3} - \frac{1}{7}\right) =$

c) $-\left(\frac{5}{2} - 1\right) + \left(\frac{15}{4} - 1\right) - \left(\frac{25}{9} - 2\right) =$ d) $\frac{1}{2} - \frac{1}{2}(3 - 0,5) =$

e) $\left(\frac{2}{3} - \frac{5}{2}\right) : \left(\frac{4}{3} + \frac{1}{6}\right) =$ f) $2\left(\frac{2}{7} - 1\right) - 3\left(\frac{4}{3} + 1\right) =$

g) $\frac{1}{3} + \left(\frac{1}{3} - \left(\frac{1}{6} - \frac{1}{9}\right)\right) \cdot \frac{27}{2} =$ h) $\left(1 - \frac{14}{5} \cdot \frac{25}{21}\right) \cdot 3 - 2 \cdot \frac{1}{2} =$

Zadatak 3 *Riješi dvojne razlomke*

a)
$$\frac{\frac{11}{3} - \frac{1}{3}}{\frac{25}{2} - \frac{7}{2}} =$$

b)
$$\frac{\frac{1}{2} + \frac{1}{3}}{\frac{23}{6} - \frac{1}{2}} =$$

c)
$$\frac{\frac{13}{2} - \frac{8}{3}}{\frac{13}{2} - \frac{8}{3}} : \frac{46}{25} =$$

d)
$$\frac{\frac{1}{3} - \frac{1}{4}}{\frac{1}{3} + \frac{1}{4}} : \frac{\frac{1}{4} - \frac{1}{5}}{\frac{1}{4} + \frac{1}{5}} \cdot \left(\frac{1}{4} + \frac{1}{12} \right) =$$

e)
$$\frac{\frac{13}{2} + \left(\frac{1}{2} + \frac{1}{7} \right) : \frac{18}{13} - 0,15}{\left(\frac{1}{3} + 0,5 \right) : \frac{5}{2} + 0,2} =$$

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

g)
$$\frac{1}{3} + \left(\frac{1}{3} - \left(\frac{1}{6} - \frac{1}{9} \right) \right) \cdot \frac{27}{2} =$$

h)
$$\left(1 - \frac{14}{5} \cdot \frac{25}{21} \right) \cdot 3 - 2 \cdot \frac{1}{2} =$$

Zadatak 4 *Poredaj po veličini brojeve od najmanjeg do najvećeg:*

a)
$$\frac{3}{7}, \frac{12}{7}, \frac{-4}{7}, \frac{18}{7}, \frac{25}{7}, 0$$

b)
$$-\frac{23}{11}, -\frac{111}{11}, \frac{-43}{11}, -1, -9$$

c)
$$\frac{8}{3}, \frac{11}{6}, \frac{7}{6}, \frac{3}{2}$$

d)
$$\frac{49}{111}, \frac{1}{3}, \frac{214}{37}, \frac{152}{333}$$